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## backend\co\_models.py

```
1  from sqlalchemy import Column, Integer, String, TIMESTAMP, func, TEXT, ForeignKey, Enum, Boolean, Date
2  from sqlalchemy.orm import relationship
3  from backend.database import Base
4
5  class Sector(Base):
6      __tablename__ = 'utrau_sectores'
7      id_sector = Column(Integer, primary_key=True, autoincrement=True)
8      codigo = Column(String(20), nullable=False)
9      nombre = Column(String(100), nullable=False)
10
11 class Empresa(Base):
12     __tablename__ = 'utrau_empresas'
13     id_empresa = Column(Integer, primary_key=True, autoincrement=True)
```

```

14     nombre_fantasia = Column(String(150), nullable=False)
15     nombre_fiscal = Column(String(200), nullable=False)
16     rut = Column(String(20), nullable=True)
17     direccion = Column(String(255), nullable=True)
18     localidad = Column(String(100), nullable=True)
19     departamento = Column(String(100), nullable=True)
20     mail_oficial = Column(String(100), nullable=True)
21     cant_trabajadores = Column(Integer, default=0)
22     tipo = Column(Enum('Empresa', 'MTSS/IGTSS', 'Judicial', 'Sindicato', 'Otro'), default='Empresa')
23     estado = Column(Enum('Activa', 'En Conflicto', 'Archivada'), default='Activa')
24     contactos = relationship("Contacto", back_populates="empresa")
25
26 class Contacto(Base):
27     __tablename__ = 'utrau_contactos'
28     id_contacto = Column(Integer, primary_key=True, autoincrement=True)
29     id_empresa = Column(Integer, ForeignKey('utrau_empresas.id_empresa'), nullable=False)
30     nombre = Column(String(150), nullable=False)
31     cargo = Column(String(100), nullable=True)
32     celular_whatsapp = Column(String(50), nullable=True)
33     email = Column(String(100), nullable=True)
34     empresa = relationship("Empresa", back_populates="contactos")
35
36 class Usuario(Base):
37     __tablename__ = 'utrau_usuarios'
38     id_usuario = Column(Integer, primary_key=True, autoincrement=True)
39     alias = Column(String(50), unique=True, nullable=False)
40     nombre_completo = Column(String(150), nullable=False)
41     pin_firma = Column(String(255), nullable=False)
42     rol = Column(Integer, default=1)
43     estado = Column(Enum('ACTIVO', 'INACTIVO'), default='ACTIVO')
44     tipo_documento = Column(Enum('CI', 'PASAPORTE', 'OTROS'), default='CI')
45     cedula_identidad = Column(String(20), nullable=True)
46     fecha_nacimiento = Column(Date, nullable=True)
47     whatsapp = Column(String(20), nullable=True)
48     celular = Column(String(20), nullable=True)
49     email = Column(String(100), nullable=True)
50     fecha_ingreso = Column(Date, nullable=True)
51     id_sector = Column(Integer, ForeignKey('utrau_sectores.id_sector'), nullable=True)
52     id_empresa = Column(Integer, ForeignKey('utrau_empresas.id_empresa'), nullable=True)

```

```

53 tipo_contrato = Column(Enum('MENSUAL', 'JORNALERO', 'ZAFRAL', 'OTROS'), default='MENSUAL')
54 path_cedula_frente = Column(String(255), nullable=True)
55 path_cedula_atras = Column(String(255), nullable=True)
56 path_foto = Column(String(255), nullable=True)
57 path_firma = Column(String(255), nullable=True)
58 version = Column(Integer, nullable=False, default=1)
59 ultima_conexion = Column(TIMESTAMP, server_default=func.now(), onupdate=func.now())
60 fecha_creacion = Column(TIMESTAMP, server_default=func.now())
61 id_creador = Column(Integer, nullable=True)
62 id_editor = Column(Integer, nullable=True)
63 tema_visual = Column(Integer, default=0)
64 sector = relationship("Sector")
65 empresa = relationship("Empresa")
66
67 class TerminalActiva(Base):
68     __tablename__ = 'utrau_terminales_activas'
69     uuid_terminal = Column(String(100), primary_key=True)
70     nombre_equipo = Column(String(100), nullable=True)
71     id_usuario_actual = Column(Integer, ForeignKey('utrau_usuarios.id_usuario'))
72     estado = Column(Enum('CONECTADO', 'DESCONECTADO', 'PENDIENTE'), default='PENDIENTE')
73     ultima_conexion = Column(TIMESTAMP, server_default=func.now(), onupdate=func.now())
74     usuario = relationship("Usuario")
75
76 class Cargo(Base):
77     __tablename__ = 'utrau_cargos'
78     id_cargo = Column(Integer, primary_key=True, autoincrement=True)
79     nombre_cargo = Column(String(100), nullable=False)
80     es_ejecutivo = Column(Boolean, default=False)
81     orden = Column(Integer, default=0)
82     version = Column(Integer, nullable=False, default=1)
83
84 class Asignacion(Base):
85     __tablename__ = 'utrau_asignaciones'
86     id_asignacion = Column(Integer, primary_key=True, autoincrement=True)
87     id_usuario = Column(Integer, ForeignKey('utrau_usuarios.id_usuario'), nullable=False)
88     id_cargo = Column(Integer, ForeignKey('utrau_cargos.id_cargo'), nullable=False)
89     fecha_inicio = Column(Date, nullable=False)
90     fecha_fin = Column(Date, nullable=True)
91     version = Column(Integer, nullable=False, default=1)

```

```

92
93 class Conflicto(Base):
94     __tablename__ = 'utrau_conflictos'
95     id_conflicto = Column(Integer, primary_key=True, autoincrement=True)
96     titulo = Column(String(255), nullable=False)
97     resumen_publico = Column(TEXT, nullable=True)
98     detalle_privado = Column(TEXT, nullable=True)
99     version = Column(Integer, default=1)
100     id_responsable = Column(Integer, ForeignKey('utrau_usuarios.id_usuario'))
101     fecha_modificacion = Column(TIMESTAMP, nullable=False, server_default=func.now(), onupdate=func.now())
102
103 class Bitacora(Base):
104     __tablename__ = 'utrau_bitacora'
105     id_bitacora = Column(Integer, primary_key=True, autoincrement=True)
106     id_conflicto = Column(Integer, ForeignKey('utrau_conflictos.id_conflicto'))
107     id_usuario = Column(Integer, ForeignKey('utrau_usuarios.id_usuario'))
108     descripcion = Column(TEXT, nullable=True)
109     gps_lat = Column(String(50), nullable=True)
110     gps_lon = Column(String(50), nullable=True)
111     timestamp = Column(TIMESTAMP, nullable=False, server_default=func.now())
112     version = Column(Integer, default=1)
113     id_editor = Column(Integer, nullable=True)
114     fecha_modificacion = Column(TIMESTAMP, nullable=False, server_default=func.now(), onupdate=func.now())
115
116 class AuditoriaHistorica(Base):
117     __tablename__ = 'utrau_auditoria_historica'
118     id_auditoria = Column(Integer, primary_key=True, autoincrement=True)
119     tabla_afectada = Column(String(50), nullable=False)
120     id_registro = Column(Integer, nullable=False)
121     accion = Column(Enum('INSERT', 'UPDATE', 'DELETE'), nullable=False)
122     datos_antes = Column(TEXT, nullable=True)
123     datos_despues = Column(TEXT, nullable=True)
124     id_usuario = Column(Integer, nullable=False)
125     timestamp = Column(TIMESTAMP, nullable=False, server_default=func.now())
126
127 class Log(Base):
128     __tablename__ = 'utrau_logs'
129     id_log = Column(Integer, primary_key=True, autoincrement=True)
130     modulo = Column(String(100), nullable=True)

```

```
131     evento = Column(String(50), nullable=True)
132     descripcion = Column(TEXT, nullable=True)
133     id_usuario = Column(Integer, nullable=True)
134     uuid_terminal = Column(String(100), nullable=True)
135     fecha_hora = Column(TIMESTAMP, nullable=False, server_default=func.now())
```

**backend\database.py**

```
1 from sqlalchemy import create_engine
2 from sqlalchemy.orm import sessionmaker
3
4 SQLALCHEMY_DATABASE_URL = "mysql+pymysql://root:@localhost:3306/utrau_app_db"
5 engine = create_engine(SQLALCHEMY_DATABASE_URL)
6 SessionLocal = sessionmaker(autocommit=False, autoflush=False, bind=engine)
```

**backend\db\_core.py**

```
1 import mysql.connector
2
3 def get_connection():
4     return mysql.connector.connect(
5         host="localhost",
6         user="root",
7         password="",
8         database="utrau_app_db"
9     )
```

**backend\db\_manager.py**

```
1 import json
2 from datetime import date, datetime
3 from decimal import Decimal
4 from backend.db_core import get_connection
5
6 def _json_serializer(obj):
7     if isinstance(obj, (datetime, date)):
8         return obj.isoformat()
9     if isinstance(obj, Decimal):
10         return str(obj)
11     raise TypeError(f"El tipo {type(obj)} no es serializable en JSON")
12
```

```

13 def registrar_auditoria(cursor, tabla, id_registro, accion, antes, despues, id_editor):
14     query = """INSERT INTO utrau_auditoria_historica
15     (tabla_afectada, id_registro, accion, datos_antes, datos_despues, id_usuario)
16     VALUES (%s, %s, %s, %s, %s, %s)"""
17
18     datos_antes_json = json.dumps(antes, default=_json_serializer)
19     datos_despues_json = json.dumps(despues, default=_json_serializer)
20
21     cursor.execute(query, (tabla, id_registro, accion, datos_antes_json, datos_despues_json, id_editor))
22
23 def actualizar_registro_seguro(tabla, id_registro, datos_nuevos, version_actual, id_editor):
24     db = get_connection()
25     cursor = db.cursor(dictionary=True)
26
27     pk_name = 'id'
28     if tabla == "utrau_usuarios":
29         pk_name = "id_usuario"
30
31     try:
32         cursor.execute(f"SELECT * FROM {tabla} WHERE {pk_name} = %s", (id_registro,))
33         datos_antes = cursor.fetchone()
34
35         if not datos_antes:
36             return False
37
38         set_clause = ", ".join([f"{k}=%s" for k in datos_nuevos.keys()])
39         query = f"""UPDATE {tabla} SET {set_clause}, version = version + 1, id_editor = %s
40             WHERE {pk_name} = %s AND version = %s"""
41
42         params = list(datos_nuevos.values()) + [id_editor, id_registro, version_actual]
43         cursor.execute(query, params)
44
45         if cursor.rowcount > 0:
46             registrar_auditoria(cursor, tabla, id_registro, 'UPDATE', datos_antes, datos_nuevos, id_editor)
47             db.commit()
48             return True
49         else:
50             db.rollback()
51             return False

```

```
52
53     except Exception as e:
54         db.rollback()
55         raise e
56     finally:
57         cursor.close()
58         db.close()
```

#### backend\security.py

```
1  from flask import session, redirect, url_for, flash, render_template_string
2  from functools import wraps
3
4  def requiere_ejecutivo(f):
5      @wraps(f)
6      def decorated_function(*args, **kwargs):
7          if 'user_id' not in session:
8              flash('Debes iniciar sesión.', 'error')
9              return redirect(url_for('auth.login'))
10
11             user_rol = session.get('user_rol', 1)
12
13             if user_rol not in [3, 4]:
14                 return render_template_string("<h1>Acceso Denegado</h1><p>Tu rol no tiene permiso para acceder a esta sección.</p>")
15
16             return f(*args, **kwargs)
17         return decorated_function
18
19 def requiere_login(f):
20     @wraps(f)
21     def decorated_function(*args, **kwargs):
22         if 'user_id' not in session:
23             flash('Debes iniciar sesión para continuar.', 'error')
24             return redirect(url_for('auth.login'))
25         return f(*args, **kwargs)
26     return decorated_function
```

#### backend\utils.py

```
1  import os
```

```
2 from datetime import datetime
3 from werkzeug.utils import secure_filename
4 from PIL import Image, ImageOps
5
6 BASE_DIR = os.path.dirname(os.path.dirname(os.path.abspath(__file__)))
7
8 UPLOAD_FOLDER = os.path.join(BASE_DIR, 'static', 'uploads')
9 PERFILES_FOLDER = os.path.join(UPLOAD_FOLDER, 'perfiles')
10 DOCUMENTOS_FOLDER = os.path.join(UPLOAD_FOLDER, 'documentos')
11 FIRMAS_FOLDER = os.path.join(UPLOAD_FOLDER, 'firmas')
12
13 for folder in [PERFILES_FOLDER, DOCUMENTOS_FOLDER, FIRMAS_FOLDER]:
14     os.makedirs(folder, exist_ok=True)
15
16 def guardar_archivo(archivo, tipo_archivo, alias_usuario):
17     if not archivo or archivo.filename == '':
18         return None
19
20     extension = os.path.splitext(archivo.filename)[1].lower()
21     fecha_str = datetime.now().strftime('%Y%m%d%H%M%S')
22     nombre_limpio = secure_filename(f"{tipo_archivo}_{alias_usuario}_{fecha_str}{extension}")
23
24     if tipo_archivo == 'FOTO':
25         ruta_destino = os.path.join(PERFILES_FOLDER, nombre_limpio)
26         ruta_bd = f"/static/uploads/perfiles/{nombre_limpio}"
27     elif tipo_archivo in ['CI_FRENTE', 'CI_ATRAS']:
28         ruta_destino = os.path.join(DOCUMENTOS_FOLDER, nombre_limpio)
29         ruta_bd = f"/static/uploads/documentos/{nombre_limpio}"
30     elif tipo_archivo == 'FIRMA':
31         ruta_destino = os.path.join(FIRMAS_FOLDER, nombre_limpio)
32         ruta_bd = f"/static/uploads/firmas/{nombre_limpio}"
33     else:
34         ruta_destino = os.path.join(UPLOAD_FOLDER, nombre_limpio)
35         ruta_bd = f"/static/uploads/{nombre_limpio}"
36
37     try:
38         archivo.save(ruta_destino)
39         return ruta_bd
40     except Exception as e:
```



```

41     print(f"Error al guardar archivo en disco: {e}")
42     return None
43
44 def procesar_firma_transparente(ruta_relativa_bd):
45     if not ruta_relativa_bd:
46         return None
47
48     partes_ruta = ruta_relativa_bd.strip("/").split("/")
49     ruta_fisica = os.path.join(BASE_DIR, *partes_ruta)
50
51     try:
52         img = Image.open(ruta_fisica)
53         img = ImageOps.exif_transpose(img)
54         img = img.convert("RGBA")
55         datas = img.getdata()
56
57         nuevo_data = []
58         for item in datas:
59             luminosidad = (item[0] + item[1] + item[2]) // 3
60             if luminosidad > 110:
61                 nuevo_data.append((255, 255, 255, 0))
62             else:
63                 nuevo_data.append((20, 30, 80, 255))
64
65         img.putdata(nuevo_data)
66
67         nombre_base = os.path.splitext(os.path.basename(ruta_fisica))[0]
68         nombre_transparente = nombre_base.replace('FIRMA_', 'FIRMA_TRANSPARENTE_') + '.png'
69         ruta_destino_fisica = os.path.join(FIRMAS_FOLDER, nombre_transparente)
70
71         img.save(ruta_destino_fisica, "PNG")
72
73         return f"/static/uploads/firmas/{nombre_transparente}"
74
75     except Exception as e:
76         print(f"Error procesando firma transparente: {e}")
77         return None

```

```
1 <!DOCTYPE html>
2 <html lang="es" class="{ 'dark' if tema == 1 else '' }">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=no">
6   <title>UTRAU - Agenda Operativa</title>
7   <script src="https://cdn.tailwindcss.com"></script>
8   <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/fullcalendar@6.1.14/index.global.min.css">
9   <!-- FullCalendar V6 (Versión moderna sin jQuery) -->
10  <script src='https://cdn.jsdelivr.net/npm/fullcalendar@6.1.14/index.global.min.js'></script>
11  <script>
12    tailwind.config = { darkMode: 'class', theme: { extend: {} } }
13  </script>
14  <style>
15    /* Ajustes precisos para estilo "Google Calendar" */
16    body { margin: 0; padding: 0; overflow: hidden; }
17    .fc-theme-standard td, .fc-theme-standard th { border-color: rgba(148, 163, 184, 0.2); }
18    .fc-col-header-cell { padding: 12px 0 !important; font-size: 12px; text-transform: uppercase; font-weight: 900; }
19    .fc-event { border: none !important; border-radius: 6px !important; padding: 2px 4px; box-shadow: 0 1px 2px rgba(0,0,0,0.1); cursor:
pointer; transition: transform 0.1s; }
20    .fc-event:hover { transform: scale(1.02); }
21    .fc-day-today { background-color: rgba(59, 130, 246, 0.05) !important; }
22
23    /* Botones del encabezado del calendario */
24    .fc-button-primary { background-color: white !important; color: #334155 !important; border: 1px solid #cbd5e1 !important; font-weight:
bold !important; text-transform: capitalize !important; border-radius: 8px !important; transition: all 0.2s !important; }
25    .fc-button-primary:hover { background-color: #f1f5f9 !important; }
26    .fc-button-active { background-color: #e2e8f0 !important; box-shadow: inset 0 2px 4px rgba(0,0,0,0.05) !important; }
27
28    /* Modo Oscuro del Calendario */
29    .dark .fc-button-primary { background-color: #1e293b !important; color: #cbd5e1 !important; border-color: #334155 !important; }
30    .dark .fc-button-primary:hover { background-color: #334155 !important; }
31    .dark .fc-button-active { background-color: #0f172a !important; }
32    .dark .fc-col-header-cell, .dark .fc-daygrid-day-number { color: #94a3b8; }
33
34    /* Ajuste de alto para que no haya doble barra de scroll */
35    #calendar-container { height: calc(100vh - 65px); }
36  </style>
37 </head>
```

```
38 <body class="bg-white dark:bg-slate-950 text-slate-900 dark:text-slate-100 transition-colors duration-300">
39
40 <!-- NAVBAR DE SISTEMA -->
41 <nav class="bg-slate-900 border-b border-slate-800 p-4 flex justify-between items-center shadow-md text-white h-[65px]">
42   <div class="flex items-center space-x-3">
43     <span class="font-black text-blue-500">UTRAU <span class="text-slate-400 font-bold hidden sm:inline">| AGENDA SINDICAL</span></span>
44   </div>
45   <div class="flex items-center space-x-4">
46     <span id="loading-indicator" class="hidden text-xs font-bold text-amber-400 uppercase animate-pulse mr-2"><i class="fa-solid fa-
rotate animate-spin mr-1"></i> Sincronizando...</span>
47     <a href="{ { url_for('index') } }" class="text-xs font-bold uppercase text-slate-400 hover:text-white transition"><i class="fa-solid
fa-arrow-left mr-2"></i>Volver</a>
48   </div>
49 </nav>
50
51 <!-- CONTENEDOR PRINCIPAL DEL CALENDARIO -->
52 <div id="calendar-container" class="w-full p-2 sm:p-4 bg-slate-50 dark:bg-slate-900">
53   <div id="calendar" class="w-full h-full bg-white dark:bg-slate-950 rounded-2xl shadow-sm border border-slate-200 dark:border-slate-800 p-
2 sm:p-4"></div>
54 </div>
55
56 <!-- ===== -->
57 <!-- MODAL: NUEVO EVENTO (Crear Reunión) -->
58 <!-- ===== -->
59 <div id="modalNuevo" class="fixed inset-0 bg-slate-900/60 z-50 hidden items-center justify-center backdrop-blur-sm p-4">
60   <div class="bg-white dark:bg-slate-900 rounded-3xl shadow-2xl w-full max-w-md border border-slate-200 dark:border-slate-800 flex flex-col
max-h-[90vh]">
61     <div class="p-5 border-b border-slate-100 dark:border-slate-800 flex justify-between items-center bg-slate-50 dark:bg-slate-800/50
rounded-t-3xl">
62       <h3 class="font-black uppercase tracking-tight text-blue-600 dark:text-blue-400"><i class="fa-solid fa-calendar-plus mr-2">
</i>Agendar Evento</h3>
63       <button onclick="cerrarModal('modalNuevo')" class="text-slate-400 hover:text-red-500 transition"><i class="fa-solid fa-xmark
text-xl"></i></button>
64     </div>
65
66     <div class="p-6 overflow-y-auto flex-1 space-y-4">
67       <div>
68         <input type="text" id="ev_titulo" placeholder="Título de la reunión o actividad" class="w-full px-4 py-3 text-lg font-black
rounded-xl border-2 border-slate-200 dark:border-slate-700 bg-transparent focus:border-blue-500 outline-none">
```

```

69         </div>
70
71         <div class="grid grid-cols-2 gap-4">
72             <div>
73                 <label class="block text-[10px] font-black text-slate-500 mb-1 uppercase">Fecha y Hora Inicio</label>
74                 <input type="datetime-local" id="ev_inicio" class="w-full px-3 py-2 rounded-lg border border-slate-200 dark:border-slate-
75 700 bg-slate-50 dark:bg-slate-800 text-sm font-bold outline-none focus:border-blue-500">
76             </div>
77             <div>
78                 <label class="block text-[10px] font-black text-slate-500 mb-1 uppercase">Fecha y Hora Fin</label>
79                 <input type="datetime-local" id="ev_fin" class="w-full px-3 py-2 rounded-lg border border-slate-200 dark:border-slate-700
80 bg-slate-50 dark:bg-slate-800 text-sm font-bold outline-none focus:border-blue-500">
81             </div>
82         </div>
83
84         <div class="flex items-center space-x-2">
85             <input type="checkbox" id="ev_todo_dia" class="w-4 h-4 accent-blue-600">
86             <label for="ev_todo_dia" class="text-xs font-bold text-slate-600 dark:text-slate-400 cursor-pointer">Es de jornada
87 completa</label>
88         </div>
89
90         <div>
91             <label class="block text-[10px] font-black text-slate-500 mb-1 uppercase">Privacidad (Visibilidad)</label>
92             <select id="ev_visibilidad" class="w-full px-3 py-2 rounded-lg border border-slate-200 dark:border-slate-700 bg-slate-50
93 dark:bg-slate-800 text-sm font-bold outline-none">
94                 <option value="Solo Participantes">Solo Participantes (Resto ve "Ocupado")</option>
95                 <option value="Institucional">Institucional (Público para el sindicato)</option>
96                 <option value="Privado">Totalmente Privado</option>
97             </select>
98         </div>
99
100         <div>
101             <label class="block text-[10px] font-black text-slate-500 mb-1 uppercase">Compañeros Invitados (Opcional)</label>
102             <div class="border border-slate-200 dark:border-slate-700 rounded-lg p-2 max-h-32 overflow-y-auto bg-slate-50 dark:bg-slate-
103 800/50 space-y-1">
104                 {% for u in lista_usuarios %}
105                 <label class="flex items-center space-x-2 p-1 hover:bg-white dark:hover:bg-slate-700 rounded cursor-pointer transition">
106                     <input type="checkbox" value="{{ u.id_usuario }}" class="check-participante w-4 h-4 accent-emerald-500">
107                     <!-- Agregamos avatar chiquito -->

```

```

103         {% if u.path_foto %}
104             
105         {% else %}
106             <div class="w-5 h-5 rounded-full bg-slate-300 dark:bg-slate-600 text-slate-500 dark:text-slate-300 flex items-
center justify-center text-[10px] font-bold">{{ u.nombre_completo[0:1] }}</div>
107         {% endif %}
108         <span class="text-xs font-bold">{{ u.nombre_completo }}</span>
109     </label>
110     {% endfor %}
111 </div>
112 </div>
113
114     <div>
115         <textarea id="ev_desc" rows="2" placeholder="Notas adicionales o lugar..." class="w-full px-4 py-3 text-sm font-medium
rounded-xl border border-slate-200 dark:border-slate-700 bg-transparent focus:border-blue-500 outline-none"></textarea>
116     </div>
117 </div>
118
119     <div class="p-4 border-t border-slate-100 dark:border-slate-800">
120         <button onclick="guardarEvento()" class="w-full bg-blue-600 hover:bg-blue-700 text-white font-black py-3 rounded-xl transition
uppercase tracking-widest text-sm shadow-md">
121             Guardar Propuesta
122         </button>
123     </div>
124 </div>
125 </div>
126
127 <!-- ===== -->
128 <!-- MODAL: VER / ACCIONES DE EVENTO -->
129 <!-- ===== -->
130 <div id="modalVer" class="fixed inset-0 bg-slate-900/60 z-50 hidden items-center justify-center backdrop-blur-sm p-4">
131     <div class="bg-white dark:bg-slate-900 rounded-3xl shadow-2xl w-full max-w-md border border-slate-200 dark:border-slate-800 overflow-
hidden flex flex-col max-h-[90vh]">
132         <div class="p-6 overflow-y-auto">
133             <div class="flex justify-between items-start mb-4">
134                 <div>
135                     <span id="ver_estado_badge" class="px-2 py-1 rounded text-[10px] font-black uppercase tracking-widest"></span>
136                     <h3 id="ver_titulo" class="text-xl font-black mt-2 leading-tight"></h3>
137                 </div>

```

```
138         <button onclick="cerrarModal('modalVer')" class="text-slate-400 hover:text-red-500 transition mt-1"><i class="fa-solid fa-
xmark text-xl"></i></button>
139     </div>
140
141     <div class="space-y-3 mb-6">
142         <p class="text-sm font-medium text-slate-600 dark:text-slate-400"><i class="fa-regular fa-clock w-5 text-center text-blue-
500"></i> <span id="ver_fecha"></span></p>
143         <p class="text-sm font-medium text-slate-600 dark:text-slate-400"><i class="fa-solid fa-user w-5 text-center text-blue-500">
</i> Agendado por: <span id="ver_creador" class="font-bold"></span></p>
144         <p class="text-sm font-medium text-slate-600 dark:text-slate-400"><i class="fa-solid fa-users w-5 text-center text-blue-500">
</i> <span id="ver_participantes" class="font-bold"></span> invitados</p>
145
146         <div id="caja_descripcion" class="mt-4 p-3 bg-slate-50 dark:bg-slate-800 rounded-lg text-sm border border-slate-200
dark:border-slate-700 hidden">
147             <p id="ver_desc" class="whitespace-pre-line text-slate-700 dark:text-slate-300"></p>
148         </div>
149     </div>
150
151     <!-- ZONA DE PODER EJECUTIVO (Solo aparece si el Rol es 3 o 4) -->
152     {% if user_rol >= 3 %}
153     <div id="panel_ejecutivo" class="pt-4 border-t border-slate-200 dark:border-slate-700 flex space-x-2 hidden">
154         <input type="hidden" id="ver_id_evento">
155         <button onclick="cambiarEstadoEvento('Fijado')" class="flex-1 bg-emerald-100 text-emerald-700 hover:bg-emerald-600
hover:text-white font-black py-2 rounded-xl transition text-xs uppercase tracking-wide border border-emerald-200 hover:border-emerald-600 shadow-
sm">
156             <i class="fa-solid fa-check mr-1"></i> Fijar Fecha
157         </button>
158         <button onclick="cambiarEstadoEvento('Cerrado')" class="flex-1 bg-slate-200 text-slate-600 hover:bg-slate-700 hover:text-
white font-black py-2 rounded-xl transition text-xs uppercase tracking-wide border border-slate-300 hover:border-slate-700 shadow-sm">
159             <i class="fa-solid fa-lock mr-1"></i> Cerrar
160         </button>
161     </div>
162     {% endif %}
163 </div>
164
165 <!-- PRÓXIMAMENTE: El Chat del Foro irá aquí abajo -->
166 <div class="bg-blue-50 dark:bg-blue-900/10 p-3 text-center border-t border-blue-100 dark:border-blue-800/30 mt-auto">
167     <span class="text-[10px] font-black text-blue-600 dark:text-blue-400 uppercase tracking-widest cursor-not-allowed opacity-60"><i
class="fa-solid fa-comments mr-2"></i>Foro de Coordinación (Próximamente)</span>
168 </div>
```



```

208     }
209 },
210
211 select: function(info) {
212     if (ROL_USUARIO < 2) return;
213
214     const formatInput = (dateObj) => {
215         let tzoffset = (new Date()).getTimezoneOffset() * 60000;
216         let localISOTime = (new Date(dateObj - tzoffset)).toISOString().slice(0, 16);
217         return localISOTime;
218     };
219
220     document.getElementById('ev_inicio').value = formatInput(info.start);
221     document.getElementById('ev_fin').value = formatInput(info.end);
222     document.getElementById('ev_todo_dia').checked = info.allDay;
223
224     abrirModal('modalNuevo');
225 },
226
227 eventClick: function(info) {
228     const ev = info.event;
229     const props = ev.extendedProps;
230
231     if (ev.title === 'Ocupado' && props.visibilidad === 'Privado') {
232         return;
233     }
234
235     document.getElementById('ver_titulo').innerText = ev.title;
236
237     let opts = { weekday: 'long', month: 'long', day: 'numeric', hour: '2-digit', minute: '2-digit' };
238     let fechaStr = ev.start.toLocaleDateString('es-UY', opts);
239     if (ev.end && !ev.allDay) {
240         fechaStr += " hasta " + ev.end.toLocaleTimeString('es-UY', {hour: '2-digit', minute: '2-digit'});
241     }
242     document.getElementById('ver_fecha').innerText = ev.allDay ? "Jornada Completa (" + ev.start.toLocaleDateString() + ")" :
243     fechaStr;
244
245     document.getElementById('ver_creador').innerText = props.creador;
246     document.getElementById('ver_participantes').innerText = props.participantes;

```



```

246
247     if(props.descripcion) {
248         document.getElementById('ver_desc').innerText = props.descripcion;
249         document.getElementById('caja_descripcion').classList.remove('hidden');
250     } else {
251         document.getElementById('caja_descripcion').classList.add('hidden');
252     }
253
254     let badge = document.getElementById('ver_estado_badge');
255     badge.innerText = props.estado;
256     badge.className = "px-2 py-1 rounded text-[10px] font-black uppercase tracking-widest text-white ";
257
258     // ACÁ ESTABA EL ERROR DE JAVASCRIPT: Se usa "else if"
259     if(props.estado === 'Fijado') {
260         badge.className += "bg-emerald-500";
261     } else if(props.estado === 'Propuesto') {
262         badge.className += "bg-blue-500 animate-pulse";
263     } else {
264         badge.className += "bg-slate-500";
265     }
266
267     let panelEjecutivo = document.getElementById('panel_ejecutivo');
268     if (panelEjecutivo) {
269         if (props.estado === 'Propuesto' || props.estado === 'Fijado') {
270             document.getElementById('ver_id_evento').value = ev.id;
271             panelEjecutivo.classList.remove('hidden');
272         } else {
273             panelEjecutivo.classList.add('hidden');
274         }
275     }
276
277     abrirModal('modalVer');
278 }
279 });
280
281 calendario.render();
282 });
283
284 function abrirModal(id) { document.getElementById(id).classList.remove('hidden'); document.getElementById(id).classList.add('flex'); }

```

```
285 function cerrarModal(id) { document.getElementById(id).classList.add('hidden'); document.getElementById(id).classList.remove('flex'); }
286
287 async function guardarEvento() {
288     const titulo = document.getElementById('ev_titulo').value;
289     const start = document.getElementById('ev_inicio').value;
290     const end = document.getElementById('ev_fin').value;
291
292     if(!titulo || !start || !end) return alert("Por favor complete Título y Fechas.");
293
294     let checks = document.querySelectorAll('.check-participante:checked');
295     let invitados = Array.from(checks).map(c => c.value);
296
297     const payload = {
298         titulo: titulo,
299         start: start,
300         end: end,
301         allDay: document.getElementById('ev_todo_dia').checked,
302         visibilidad: document.getElementById('ev_visibilidad').value,
303         descripcion: document.getElementById('ev_desc').value,
304         participantes: invitados
305     };
306
307     try {
308         let res = await fetch('/agenda/api/eventos', {
309             method: 'POST',
310             headers: {'Content-Type': 'application/json'},
311             body: JSON.stringify(payload)
312         });
313         let data = await res.json();
314
315         if(data.success) {
316             cerrarModal('modalNuevo');
317             calendario.refetchEvents();
318
319             document.getElementById('ev_titulo').value = '';
320             document.getElementById('ev_desc').value = '';
321             checks.forEach(c => c.checked = false);
322         } else {
323             alert("Error: " + data.error);
```

```

324     }
325   } catch(e) {
326     alert("Fallo de conexión.");
327   }
328 }
329
330 async function cambiarEstadoEvento(nuevo_estado) {
331   const id = document.getElementById('ver_id_evento').value;
332   if(!id) return;
333
334   if(!confirm(`¿Estás seguro de marcar esta reunión como ${nuevo_estado}?`)) return;
335
336   try {
337     let res = await fetch('/agenda/api/eventos/estado', {
338       method: 'POST',
339       headers: {'Content-Type': 'application/json'},
340       body: JSON.stringify({id_evento: id, estado: nuevo_estado})
341     });
342     let data = await res.json();
343
344     if(data.success) {
345       cerrarModal('modalVer');
346       calendario.refetchEvents();
347     } else {
348       alert("Error: " + data.error);
349     }
350   } catch(e) {
351     alert("Fallo de conexión.");
352   }
353 }
354 </script>
355 </body>
356 </html>

```

templates\config\_asignaciones.html

```

1 <!DOCTYPE html>
2 <html lang="es" class="{ { 'dark' if tema == 1 else '' } }">
3 <head>

```

```

4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>UTRAU - Asignaciones</title>
7     <script src="https://cdn.tailwindcss.com"></script>
8     <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css">
9     <script>
10         tailwind.config = { darkMode: 'class', theme: { extend: {} } }
11     </script>
12 </head>
13 <body class="bg-slate-100 dark:bg-slate-950 text-slate-900 dark:text-slate-100 transition-colors duration-300 min-h-screen">
14
15     <nav class="bg-slate-900 border-b border-slate-800 p-4 flex justify-between items-center shadow-md text-white sticky top-0 z-40">
16         <div class="flex items-center space-x-3">
17             <span class="font-black text-amber-500">UTRAU <span class="text-slate-400 font-bold">| ASIGNACIONES</span></span>
18         </div>
19         <a href="{{ url_for('config.panel') }}" class="text-xs font-bold uppercase text-slate-400 hover:text-white transition"><i class="fa-solid
fa-arrow-left mr-2"></i>Volver al Panel</a>
20     </nav>
21
22     <div class="max-w-7xl mx-auto px-6 mt-4">
23         {% with messages = get_flashed_messages(with_categories=true) %}
24             {% if messages %}
25                 {% for category, message in messages %}
26                     {% if category == 'success' %}
27                         <div class="bg-emerald-100 dark:bg-emerald-900/30 border border-emerald-500 text-emerald-700 dark:text-emerald-400 px-4
py-3 rounded-xl flex items-center mb-4 shadow-sm">
28                             <i class="fa-solid fa-circle-check mr-3 text-lg"></i><span class="text-sm font-bold">{{ message }}</span>
29                         </div>
30                     {% elif category == 'error' %}
31                         <div class="bg-red-100 dark:bg-red-900/30 border border-red-500 text-red-700 dark:text-red-400 px-4 py-3 rounded-xl flex
items-center mb-4 shadow-sm">
32                             <i class="fa-solid fa-triangle-exclamation mr-3 text-lg"></i><span class="text-sm font-bold">{{ message }}</span>
33                         </div>
34                     {% endif %}
35                 {% endfor %}
36             {% endif %}
37         {% endwith %}
38     </div>
39

```

```
<main class="p-6 max-w-7xl mx-auto grid grid-cols-1 lg:grid-cols-3 gap-6 items-start">

    <div class="lg:col-span-2 bg-white dark:bg-slate-900 rounded-2xl border border-slate-200 dark:border-slate-800 shadow-sm overflow-hidden flex flex-col">
        <div class="p-6 border-b border-slate-200 dark:border-slate-800 bg-slate-50 dark:bg-slate-900/50 flex justify-between items-center">
            <div>
                <h2 class="text-xl font-black uppercase tracking-tight">Directiva y Ejecutivo</h2>
                <p class="text-xs text-slate-500 font-bold mt-1">Vincular compañeros a cargos estatutarios.</p>
            </div>
            <button onclick="limpiarFormulario()" class="px-4 py-2 bg-blue-600 hover:bg-blue-700 text-white text-xs font-black uppercase tracking-wider rounded-lg transition shadow-md">
                + Asignar Cargo
            </button>
        </div>

        <div class="overflow-x-auto">
            <table class="w-full text-left border-collapse">
                <thead>
                    <tr class="bg-slate-100 dark:bg-slate-800 text-[10px] uppercase tracking-widest text-slate-500 dark:text-slate-400">
                        <th class="p-4 font-black">Compañero</th>
                        <th class="p-4 font-black">Cargo Ocupado</th>
                        <th class="p-4 font-black text-center">Período</th>
                        <th class="p-4 font-black text-center">Estado</th>
                        <th class="p-4 font-black text-right">Acción</th>
                    </tr>
                </thead>
                <tbody class="text-sm font-medium">
                    {% for a in lista_asignaciones %}
                    <tr class="border-b border-slate-100 dark:border-slate-800/50 hover:bg-slate-50 dark:hover:bg-slate-800/30 transition {% if a.fecha_fin %}fila-historica hidden opacity-60 grayscale{% endif %}">
                        <td class="p-4">
                            <div class="flex items-center space-x-3">
                                {% if a.path_foto %}
                                    
                                {% else %}
                                    <div class="w-8 h-8 rounded-full bg-slate-200 dark:bg-slate-800 flex items-center justify-center text-slate-500 font-black border-2 border-slate-300 dark:border-slate-700 text-xs">
                                        {{ a.nombre_completo[0:1] }}
                                    </div>
                                </div>
                            </td>
                        </tr>
                    {% endfor %}
                </tbody>
            </table>
        </div>
    </div>
</main>
```

```

74         </div>
75         {% endif %}
76         <span class="font-bold text-slate-800 dark:text-slate-200">{{ a.nombre_completo }}</span>
77     </div>
78 </td>
79 <td class="p-4">
80     <span class="font-black text-amber-600 dark:text-amber-500">{{ a.nombre_cargo }}</span>
81     {% if a.es_ejecutivo %}
82     <p class="text-[10px] font-bold uppercase tracking-widest text-purple-500">Mesa Ejecutiva</p>
83     {% endif %}
84 </td>
85 <td class="p-4 text-center text-xs text-slate-500 font-bold">
86     {{ a.fecha_inicio }} <br> al <br> {{ a.fecha_fin or 'Actualidad' }}
87 </td>
88 <td class="p-4 text-center">
89     {% if a.fecha_fin == None %}
90     <span class="px-2 py-1 rounded bg-emerald-100 text-emerald-700 text-[10px] font-black
uppercase">Vigente</span>
91     {% else %}
92     <span class="px-2 py-1 rounded bg-slate-200 text-slate-600 text-[10px] font-black uppercase">Histórico</span>
93     {% endif %}
94 </td>
95 <td class="p-4 text-right">
96     <button onclick="editarAsignacion('{{ a.id_asignacion }}', '{{ a.id_usuario }}', '{{ a.id_cargo }}', '{{
a.fecha_inicio }}', '{{ a.fecha_fin or '' }}', '{{ a.version }}')" class="p-2 bg-slate-200 dark:bg-slate-700 hover:bg-blue-500 hover:text-white
text-slate-700 dark:text-white rounded-lg transition" title="Editar">
97         <i class="fa-solid fa-pen"></i>
98     </button>
99 </td>
100 </tr>
101 {% endfor %}
102 </tbody>
103 </table>
104 </div>
105
106 <div class="p-4 border-t border-slate-200 dark:border-slate-800 bg-slate-50 dark:bg-slate-900/50 text-center">
107     <button id="btnToggleHistorico" onclick="toggleHistorico()" class="text-xs font-black uppercase tracking-wider text-slate-500
hover:text-amber-600 dark: hover:text-amber-500 transition px-4 py-2 rounded-lg hover:bg-slate-200 dark: hover:bg-slate-800">
108     <i class="fa-solid fa-clock-rotate-left mr-2"></i>Ver Historial de Asignaciones

```

```

109         </button>
110     </div>
111 </div>
112
113 <div class="bg-white dark:bg-slate-900 rounded-2xl border border-slate-200 dark:border-slate-800 shadow-sm h-fit">
114     <div class="p-6 border-b border-slate-200 dark:border-slate-800 bg-slate-50 dark:bg-slate-900/50">
115         <h2 class="text-lg font-black uppercase tracking-tight" id="titulo_formulario">Nueva Asignación</h2>
116     </div>
117
118     <div class="p-6">
119         <form action="{{ url_for('config.guardar_asignacion') }}" method="POST" class="space-y-4">
120
121             <input type="hidden" name="id_asignacion" id="form_id_asignacion" value="">
122             <input type="hidden" name="version" id="form_version" value="1">
123
124             <div>
125                 <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase">Compañero (Padrón)</label>
126                 <select name="id_usuario" id="form_id_usuario" required class="w-full px-4 py-3 rounded-xl border-2 border-slate-200
dark:border-slate-800 bg-transparent focus:border-amber-500 outline-none font-bold text-sm">
127                     <option value="" class="text-black">-- Seleccione Compañero --</option>
128                     {% for u in lista_usuarios %}
129                     <option value="{{ u.id_usuario }}" class="text-black">{{ u.nombre_completo }} (@{{ u.alias }})</option>
130                     {% endfor %}
131                 </select>
132             </div>
133
134             <div>
135                 <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase">Cargo a Asignar</label>
136                 <select name="id_cargo" id="form_id_cargo" required class="w-full px-4 py-3 rounded-xl border-2 border-slate-200
dark:border-slate-800 bg-transparent focus:border-amber-500 outline-none font-bold text-sm">
137                     <option value="" class="text-black">-- Seleccione Cargo --</option>
138                     {% for c in lista_cargos %}
139                     <option value="{{ c.id_cargo }}" class="text-black">{{ c.nombre_cargo }} {% if c.es_ejecutivo %}(Ejecutivo){% endif
140                     {% endfor %}
141                 </select>
142             </div>
143
144             <div class="grid grid-cols-2 gap-4 pt-2">

```

```

145         <div>
146             <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase">Fecha Inicio*</label>
147             <input type="date" name="fecha_inicio" id="form_fecha_inicio" required class="w-full px-3 py-2 rounded-xl border-2
border-slate-200 dark:border-slate-800 bg-transparent focus:border-amber-500 outline-none font-bold text-sm">
148         </div>
149         <div>
150             <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase text-red-500">Fecha Fin (Cese)</label>
151             <input type="date" name="fecha_fin" id="form_fecha_fin" class="w-full px-3 py-2 rounded-xl border-2 border-red-200
dark:border-red-900/50 bg-red-50 dark:bg-red-900/10 focus:border-red-500 outline-none font-bold text-sm text-red-600">
152             <p class="text-[9px] font-bold text-slate-400 mt-1">Llenar solo si finalizó mandato.</p>
153         </div>
154     </div>
155
156     <div class="pt-4 border-t border-slate-100 dark:border-slate-800">
157         <button type="submit" class="w-full bg-amber-600 hover:bg-amber-700 text-white font-black py-4 rounded-xl transition-all
uppercase tracking-wider text-sm shadow-md">
158             Guardar Asignación
159         </button>
160     </div>
161 </form>
162 </div>
163 </div>
164 </main>
165
166 <script>
167     function editarAsignacion(id_asig, id_user, id_cargo, f_ini, f_fin, version) {
168         document.getElementById('titulo_formulario').innerText = "Editar Asignación";
169         document.getElementById('form_id_asignacion').value = id_asig;
170         document.getElementById('form_id_usuario').value = id_user;
171         document.getElementById('form_id_cargo').value = id_cargo;
172         document.getElementById('form_fecha_inicio').value = f_ini;
173         document.getElementById('form_fecha_fin').value = f_fin;
174         document.getElementById('form_version').value = version;
175         window.scrollTo({ top: 0, behavior: 'smooth' });
176     }
177
178     function limpiarFormulario() {
179         document.getElementById('titulo_formulario').innerText = "Nueva Asignación";
180         document.getElementById('form_id_asignacion').value = "";

```



```

181     document.getElementById('form_id_usuario').value = "";
182     document.getElementById('form_id_cargo').value = "";
183     document.getElementById('form_fecha_inicio').value = "";
184     document.getElementById('form_fecha_fin').value = "";
185     document.getElementById('form_version').value = "1";
186 }
187
188 function toggleHistorico() {
189     const filas = document.querySelectorAll('.fila-historica');
190     const btn = document.getElementById('btnToggleHistorico');
191     let mostrando = false;
192
193     filas.forEach(fila => {
194         if (fila.classList.contains('hidden')) {
195             fila.classList.remove('hidden');
196             mostrando = true;
197         } else {
198             fila.classList.add('hidden');
199         }
200     });
201
202     if (mostrando) {
203         btn.innerHTML = '<i class="fa-solid fa-eye-slash mr-2"></i>Ocultar Historial';
204         btn.classList.add('text-amber-600', 'dark:text-amber-500', 'bg-slate-200', 'dark:bg-slate-800');
205     } else {
206         btn.innerHTML = '<i class="fa-solid fa-clock-rotate-left mr-2"></i>Ver Historial de Asignaciones';
207         btn.classList.remove('text-amber-600', 'dark:text-amber-500', 'bg-slate-200', 'dark:bg-slate-800');
208     }
209 }
210 </script>
211 </body>
212 </html>

```

templates\config\_cargos.html

```

1 <!DOCTYPE html>
2 <html lang="es" class="{ 'dark' if tema == 1 else ' ' }">
3 <head>
4     <meta charset="UTF-8">

```

```
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>UTRAU - Cargos Estatutarios</title>
7 <script src="https://cdn.tailwindcss.com"></script>
8 <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/font-awesome@6.0.0/css/all.min.css">
9 <script>
10     tailwind.config = { darkMode: 'class', theme: { extend: {} } }
11 </script>
12 </head>
13 <body class="bg-slate-100 dark:bg-slate-950 text-slate-900 dark:text-slate-100 transition-colors duration-300 min-h-screen">
14
15     <nav class="bg-slate-900 border-b border-slate-800 p-4 flex justify-between items-center shadow-md text-white">
16         <div class="flex items-center space-x-3">
17             <span class="font-black text-purple-500">UTRAU <span class="text-slate-400 font-bold">| CARGOS</span></span>
18         </div>
19         <a href="{ { url_for('config.panel') } }" class="text-xs font-bold uppercase text-slate-400 hover:text-white transition"><i class="fa-solid
fa-arrow-left mr-2"></i>Volver al Panel</a>
20     </nav>
21
22     <div class="max-w-7xl mx-auto px-6 mt-4">
23         {% with messages = get_flashed_messages(with_categories=true) %}
24             {% if messages %}
25                 {% for category, message in messages %}
26                     {% if category == 'success' %}
27                         <div class="bg-emerald-100 dark:bg-emerald-900/30 border border-emerald-500 text-emerald-700 dark:text-emerald-400 px-4
py-3 rounded-xl flex items-center mb-4 shadow-sm">
28                             <i class="fa-solid fa-circle-check mr-3 text-lg"></i><span class="text-sm font-bold">{{ message }}</span>
29                         </div>
30                     {% elif category == 'error' %}
31                         <div class="bg-red-100 dark:bg-red-900/30 border border-red-500 text-red-700 dark:text-red-400 px-4 py-3 rounded-xl flex
items-center mb-4 shadow-sm">
32                             <i class="fa-solid fa-triangle-exclamation mr-3 text-lg"></i><span class="text-sm font-bold">{{ message }}</span>
33                         </div>
34                     {% endif %}
35                 {% endfor %}
36             {% endif %}
37         {% endwith %}
38     </div>
39
40     <main class="p-6 max-w-7xl mx-auto grid grid-cols-1 lg:grid-cols-3 gap-6">
```

```

<div class="lg:col-span-2 bg-white dark:bg-slate-900 rounded-2xl border border-slate-200 dark:border-slate-800 shadow-sm overflow-hidden">
    <div class="p-6 border-b border-slate-200 dark:border-slate-800 bg-slate-50 dark:bg-slate-900/50 flex justify-between items-center">
        <div>
            <h2 class="text-xl font-black uppercase tracking-tight">Definición Estatutaria</h2>
            <p class="text-xs text-slate-500 font-bold mt-1">Estructura organizacional base.</p>
        </div>
        <button onclick="limpiarFormulario()" class="px-4 py-2 bg-blue-600 hover:bg-blue-700 text-white text-xs font-black uppercase tracking-wider rounded-lg transition">
            + Nuevo Cargo
        </button>
    </div>

    <div class="overflow-x-auto">
        <table class="w-full text-left border-collapse">
            <thead>
                <tr class="bg-slate-100 dark:bg-slate-800 text-[10px] uppercase tracking-widest text-slate-500 dark:text-slate-400">
                    <th class="p-4 font-black w-16 text-center">Nº</th>
                    <th class="p-4 font-black">Nombre del Cargo</th>
                    <th class="p-4 font-black text-center">Poder de Decisión</th>
                    <th class="p-4 font-black text-right">Acción</th>
                </tr>
            </thead>
            <tbody class="text-sm font-medium">
                {% for cargo in lista_cargos %}
                <tr class="border-b border-slate-100 dark:border-slate-800/50 hover:bg-slate-50 dark:hover:bg-slate-800/30 transition">
                    <td class="p-4 text-center font-black text-slate-400">{{ cargo.orden }}</td>
                    <td class="p-4 font-bold text-slate-800 dark:text-slate-200">{{ cargo.nombre_cargo }}</td>
                    <td class="p-4 text-center">
                        {% if cargo.es_ejecutivo %}
                            <span class="px-3 py-1 rounded-full bg-purple-100 text-purple-700 dark:bg-purple-900/30 dark:text-purple-400 text-[10px] font-black uppercase tracking-wider border border-purple-200 dark:border-purple-800">Mesa Ejecutiva</span>
                        {% else %}
                            <span class="px-3 py-1 rounded-full bg-slate-100 text-slate-600 dark:bg-slate-800 dark:text-slate-400 text-[10px] font-black uppercase tracking-wider border border-slate-200 dark:border-slate-700">Directiva</span>
                        {% endif %}
                    </td>
                    <td class="p-4 text-right">

```

```

76         <button onclick="editarCargo('{{ cargo.id_cargo }}', '{{ cargo.nombre_cargo }}', '{{ cargo.es_ejecutivo }}', '{{
cargo.orden }}', '{{ cargo.version }}')" class="p-2 bg-slate-200 dark:bg-slate-700 hover:bg-blue-500 hover:text-white dark:hover:bg-blue-500
text-slate-700 dark:text-white rounded-lg transition" title="Editar">
77             <i class="fa-solid fa-pen"></i>
78         </button>
79     </td>
80 </tr>
81 {% endfor %}
82 </tbody>
83 </table>
84 </div>
85 </div>
86
87 <div class="bg-white dark:bg-slate-900 rounded-2xl border border-slate-200 dark:border-slate-800 shadow-sm h-fit">
88     <div class="p-6 border-b border-slate-200 dark:border-slate-800 bg-slate-50 dark:bg-slate-900/50">
89         <h2 class="text-lg font-black uppercase tracking-tight" id="titulo_formulario">Nuevo Cargo</h2>
90     </div>
91     <div class="p-6">
92         <form action="{{ url_for('config.guardar_cargo') }}" method="POST" class="space-y-4">
93
94             <input type="hidden" name="id_cargo" id="form_id_cargo" value="">
95             <input type="hidden" name="version" id="form_version" value="1">
96
97             <div>
98                 <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase tracking-wide">Nombre del Cargo</label>
99                 <input type="text" name="nombre_cargo" id="form_nombre_cargo" required
100                     class="w-full px-4 py-3 rounded-xl border-2 border-slate-200 dark:border-slate-800 bg-transparent focus:border-
purple-500 outline-none font-bold transition">
101             </div>
102
103             <div>
104                 <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase tracking-wide">Orden de Aparición (Número)
</label>
105                 <input type="number" name="orden" id="form_orden" value="0" required
106                     class="w-full px-4 py-3 rounded-xl border-2 border-slate-200 dark:border-slate-800 bg-transparent focus:border-
purple-500 outline-none font-bold transition">
107             </div>
108
109             <div class="flex items-center space-x-3 pt-2">

```

```
110         <input type="checkbox" name="es_ejecutivo" id="form_es_ejecutivo" class="w-5 h-5 rounded accent-purple-500">
111         <label for="form_es_ejecutivo" class="text-sm font-bold text-slate-700 dark:text-slate-300 cursor-pointer">Pertenece a
Mesa Ejecutiva</label>
112     </div>
113
114     <div class="pt-4 border-t border-slate-100 dark:border-slate-800">
115         <button type="submit" class="w-full bg-purple-600 hover:bg-purple-700 text-white font-black py-4 rounded-xl transition-
all uppercase tracking-wider text-sm shadow-md">
116             Guardar Cambios
117         </button>
118     </div>
119 </form>
120 </div>
121 </div>
122 </main>
123
124 <script>
125     function editarCargo(id, nombre, es_ejecutivo, orden, version) {
126         document.getElementById('titulo_formulario').innerText = "Editar Cargo";
127         document.getElementById('form_id_cargo').value = id;
128         document.getElementById('form_nombre_cargo').value = nombre;
129         document.getElementById('form_orden').value = orden;
130         document.getElementById('form_version').value = version;
131         document.getElementById('form_es_ejecutivo').checked = (es_ejecutivo === 'True' || es_ejecutivo === '1');
132         window.scrollTo({ top: 0, behavior: 'smooth' });
133     }
134
135     function limpiarFormulario() {
136         document.getElementById('titulo_formulario').innerText = "Nuevo Cargo";
137         document.getElementById('form_id_cargo').value = "";
138         document.getElementById('form_nombre_cargo').value = "";
139         document.getElementById('form_orden').value = "0";
140         document.getElementById('form_version').value = "1";
141         document.getElementById('form_es_ejecutivo').checked = false;
142     }
143 </script>
144 </body>
145 </html>
```

templates\config\_empresas.html

```
1 <!DOCTYPE html>
2 <html lang="es" class="{ { 'dark' if tema == 1 else '' } }">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=no">
6     <title>UTRAU - Empresas y Organismos</title>
7     <script src="https://cdn.tailwindcss.com"></script>
8     <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css">
9     <script>
10         tailwind.config = { darkMode: 'class', theme: { extend: {} } }
11     </script>
12 </head>
13 <body class="bg-slate-100 dark:bg-slate-950 text-slate-900 dark:text-slate-100 transition-colors duration-300 min-h-screen">
14
15     <nav class="bg-slate-900 border-b border-slate-800 p-4 flex justify-between items-center shadow-md text-white sticky top-0 z-40">
16         <div class="flex items-center space-x-3">
17             <span class="font-black text-sky-500">UTRAU <span class="text-slate-400 font-bold hidden sm:inline">| ENTIDADES
18             INSTITUCIONALES</span></span>
19             </div>
20             <a href="{ { url_for('config.panel') } }" class="text-xs font-bold uppercase text-slate-400 hover:text-white transition"><i class="fa-solid
21             fa-arrow-left mr-2"></i>Volver</a>
22         </nav>
23
24     <div class="max-w-7xl mx-auto px-6 mt-4">
25         {% with messages = get_flashed_messages(with_categories=true) %}
26             {% if messages %}
27                 {% for category, message in messages %}
28                     {% if category == 'success' %}
29                         <div class="bg-emerald-100 dark:bg-emerald-900/30 border border-emerald-500 text-emerald-700 dark:text-emerald-400 px-4
30                         py-3 rounded-xl flex items-center mb-4 shadow-sm">
31                             <i class="fa-solid fa-circle-check mr-3 text-lg"></i><span class="text-sm font-bold">{{ message }}</span>
32                         </div>
33                     {% elif category == 'error' %}
34                         <div class="bg-red-100 dark:bg-red-900/30 border border-red-500 text-red-700 dark:text-red-400 px-4 py-3 rounded-xl flex
35                         items-center mb-4 shadow-sm">
36                             <i class="fa-solid fa-triangle-exclamation mr-3 text-lg"></i><span class="text-sm font-bold">{{ message }}</span>
37                         </div>
38                     {% else %}
39                         <div class="bg-gray-100 dark:bg-gray-900/30 border border-gray-500 text-gray-700 dark:text-gray-400 px-4 py-3 rounded-xl flex
38                         items-center mb-4 shadow-sm">
39                             <i class="fa-solid fa-exclamation-triangle mr-3 text-lg"></i><span class="text-sm font-bold">{{ message }}</span>
40                         </div>
41                     {% endfor %}
42                 {% endwith %}
43             </div>
44         </div>
45     </body>
46 </html>
```

```
34         {% endif %}
35     {% endfor %}
36 {% endif %}
37 {% endwith %}
38 </div>
39
40 <main class="p-6 max-w-7xl mx-auto grid grid-cols-1 xl:grid-cols-5 gap-6 items-start">
41
42     <!-- COLUMNA IZQ: LISTADO -->
43     <div id="seccion_lista" class="xl:col-span-2 bg-white dark:bg-slate-900 rounded-2xl border border-slate-200 dark:border-slate-800 shadow-sm overflow-hidden h-[50vh] xl:h-[85vh] flex flex-col scroll-mt-20">
44         <div class="p-6 border-b border-slate-200 dark:border-slate-800 bg-slate-50 dark:bg-slate-900/50 flex justify-between items-center">
45             <div>
46                 <h2 class="text-xl font-black uppercase tracking-tight">Directorio</h2>
47                 <p class="text-xs text-slate-500 font-bold mt-1">Empresas, MTSS, Sindicatos.</p>
48             </div>
49             <button onclick="limpiarFormulario()" class="px-3 py-2 bg-sky-600 hover:bg-sky-700 text-white text-[10px] font-black uppercase tracking-wider rounded-lg transition shadow-md">
50                 + Nuevo
51             </button>
52         </div>
53
54         <div class="overflow-y-auto flex-1 p-2">
55             {% for emp in lista_empresas %}
56             <div class="border border-slate-200 dark:border-slate-800 rounded-xl mb-3 p-4 hover:border-sky-500 transition group relative">
57                 <div class="flex justify-between items-start mb-1">
58                     <h4 class="font-black text-slate-800 dark:text-slate-100">{{ emp.nombre_fantasia }}</h4>
59                     <span class="text-[9px] font-black uppercase tracking-widest px-2 py-0.5 rounded bg-slate-200 dark:bg-slate-800 text-slate-600 dark:text-slate-400">{{ emp.tipo }}</span>
60                 </div>
61                 <p class="text-[10px] font-bold text-slate-500 uppercase tracking-widest">{{ emp.nombre_fiscal }} | RUT: {{ emp.rut or 'N/D' }}</p>
62                 <p class="text-xs text-slate-600 dark:text-slate-400 mt-2"><i class="fa-solid fa-location-dot mr-1 text-slate-400"></i> {{ emp.localidad or 'S/D' }}, {{ emp.departamento or 'S/D' }}</p>
63
64                 <!-- Contactos Vinculados -->
65                 <div class="mt-3 pt-3 border-t border-slate-100 dark:border-slate-800">
66                     <div class="flex justify-between items-center mb-2">
67                         <span class="text-[10px] font-black uppercase tracking-widest text-slate-400">Contactos</span>
```

```

68         <button onclick="abrirModalContacto('{{ emp.id_empresa }}', '{{ emp.nombre_fantasia }}')" class="text-[9px] font-
black uppercase bg-emerald-100 hover:bg-emerald-200 text-emerald-700 px-2 py-1 rounded transition">+ Contacto</button>
69     </div>
70
71     {% for c in emp.contactos %}
72     <div class="bg-slate-50 dark:bg-slate-800/50 p-2 rounded mb-1 border border-slate-100 dark:border-slate-800">
73         <p class="text-xs font-bold text-slate-800 dark:text-slate-200"><i class="fa-solid fa-user-tie text-[10px] mr-1 text-
slate-400"></i> {{ c.nombre }} <span class="font-normal text-slate-500">({{ c.cargo or 'Sin Cargo' }})</span></p>
74         <p class="text-[10px] font-medium text-slate-500 ml-4"><i class="fa-solid fa-phone mr-1"></i> {{ c.celular_whatsapp
or '-' }} | <i class="fa-solid fa-envelope mr-1"></i> {{ c.email or '-' }}</p>
75     </div>
76     {% else %}
77     <p class="text-[10px] font-bold text-slate-400 italic">No hay contactos registrados.</p>
78     {% endfor %}
79 </div>
80
81 <!-- Botón de Edición -->
82 <button onclick="editarEmpresa(
83     '{{ emp.id_empresa }}', '{{ emp.nombre_fantasia }}', '{{ emp.nombre_fiscal }}', '{{ emp.rut or '' }}',
84     '{{ emp.direccion or '' }}', '{{ emp.localidad or '' }}', '{{ emp.departamento or '' }}',
85     '{{ emp.mail_oficial or '' }}', '{{ emp.cant_trabajadores }}', '{{ emp.tipo }}', '{{ emp.estado }}'
86 )" class="absolute top-4 right-4 opacity-0 group-hover:opacity-100 p-2 bg-sky-100 hover:bg-sky-500 hover:text-white text-sky-
700 rounded-lg transition" title="Editar Expediente">
87     <i class="fa-solid fa-pen"></i>
88 </button>
89 </div>
90 {% endfor %}
91 </div>
92 </div>
93
94 <!-- COLUMNA DER: FORMULARIO ABML -->
95 <div id="seccion_formulario" class="xl:col-span-3 bg-white dark:bg-slate-900 rounded-2xl border border-slate-200 dark:border-slate-800
shadow-sm h-fit mb-10 scroll-mt-20">
96     <div class="p-6 border-b border-slate-200 dark:border-slate-800 bg-slate-50 dark:bg-slate-900/50 flex justify-between items-center">
97         <h2 class="text-lg font-black uppercase tracking-tight" id="titulo_formulario">Nueva Entidad</h2>
98     </div>
99
100     <div class="p-6">
101         <form action="{{ url_for('config.guardar_empresa_crm') }}" method="POST" class="space-y-6">

```



```

102         <input type="hidden" name="id_empresa" id="form_id_empresa" value="">
103
104         <div>
105             <h3 class="text-xs font-black uppercase text-slate-400 border-b border-slate-200 dark:border-slate-800 pb-2 mb-4"><i
class="fa-solid fa-building mr-2"></i>Identidad Institucional</h3>
106             <div class="grid grid-cols-1 md:grid-cols-2 gap-4">
107                 <div>
108                     <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase">Nombre Fantasía*</label>
109                     <input type="text" name="nombre_fantasia" id="form_nombre_fantasia" required class="w-full px-4 py-2 rounded-xl
border-2 border-slate-200 dark:border-slate-800 bg-transparent focus:border-sky-500 outline-none font-bold text-sm">
110                 </div>
111                 <div>
112                     <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase">Razón Social (Fiscal)*</label>
113                     <input type="text" name="nombre_fiscal" id="form_nombre_fiscal" required class="w-full px-4 py-2 rounded-xl
border-2 border-slate-200 dark:border-slate-800 bg-transparent focus:border-sky-500 outline-none font-bold text-sm">
114                 </div>
115                 <div>
116                     <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase">RUT</label>
117                     <input type="text" name="rut" id="form_rut" class="w-full px-4 py-2 rounded-xl border-2 border-slate-200
dark:border-slate-800 bg-transparent focus:border-sky-500 outline-none font-bold text-sm">
118                 </div>
119                 <div>
120                     <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase">Tipo de Entidad*</label>
121                     <select name="tipo" id="form_tipo" class="w-full px-4 py-2.5 rounded-xl border-2 border-slate-200 dark:border-
slate-800 bg-transparent focus:border-sky-500 outline-none font-bold text-sm">
122                         <option value="Empresa" class="text-black">Empresa Privada</option>
123                         <option value="MTSS/IGTSS" class="text-black">MTSS / IGTSS</option>
124                         <option value="Sindicato" class="text-black">Sindicato / PIT-CNT</option>
125                         <option value="Judicial" class="text-black">Juzgado / Sede Judicial</option>
126                         <option value="Otro" class="text-black">Otro Organismo</option>
127                     </select>
128                 </div>
129             </div>
130         </div>
131
132         <div>
133             <h3 class="text-xs font-black uppercase text-slate-400 border-b border-slate-200 dark:border-slate-800 pb-2 mb-4"><i
class="fa-solid fa-map-location-dot mr-2"></i>Ubicación y Operativa</h3>
134             <div class="grid grid-cols-1 md:grid-cols-3 gap-4">

```

```
135         <div class="md:col-span-3">
136             <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase">Dirección Física</label>
137             <input type="text" name="direccion" id="form_direccion" class="w-full px-4 py-2 rounded-xl border-2 border-slate-
200 dark:border-slate-800 bg-transparent focus:border-sky-500 outline-none font-bold text-sm">
138         </div>
139         <div>
140             <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase">Localidad</label>
141             <input type="text" name="localidad" id="form_localidad" class="w-full px-4 py-2 rounded-xl border-2 border-slate-
200 dark:border-slate-800 bg-transparent focus:border-sky-500 outline-none font-bold text-sm">
142         </div>
143         <div>
144             <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase">Departamento</label>
145             <input type="text" name="departamento" id="form_departamento" class="w-full px-4 py-2 rounded-xl border-2 border-
slate-200 dark:border-slate-800 bg-transparent focus:border-sky-500 outline-none font-bold text-sm">
146         </div>
147         <div>
148             <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase">Email Institucional</label>
149             <input type="email" name="mail_oficial" id="form_mail_oficial" class="w-full px-4 py-2 rounded-xl border-2
border-slate-200 dark:border-slate-800 bg-transparent focus:border-sky-500 outline-none font-bold text-sm">
150         </div>
151     </div>
152 </div>
153
154 <div class="pt-4 border-t border-slate-100 dark:border-slate-800 flex justify-between items-center space-x-4">
155     <div class="flex-1 grid grid-cols-2 gap-4">
156         <div>
157             <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase">Trabajadores (Fuerza)</label>
158             <input type="number" name="cant_trabajadores" id="form_cant_trabajadores" value="0" class="w-full px-4 py-3
rounded-xl border-2 border-slate-200 dark:border-slate-800 bg-transparent focus:border-sky-500 outline-none font-black text-sm">
159             <p class="text-[9px] font-bold text-slate-400 mt-1">Dejar 0 para MTSS/Juzgados.</p>
160         </div>
161         <div>
162             <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase">Estado Registral</label>
163             <select name="estado" id="form_estado" class="w-full px-4 py-3 rounded-xl border-2 border-slate-200 dark:border-
slate-800 bg-slate-100 dark:bg-slate-900 focus:border-sky-500 font-black text-sm">
164                 <option value="Activa" class="text-black">Activa (Operativa)</option>
165                 <option value="En Conflicto" class="text-amber-600 font-bold">En Conflicto</option>
166                 <option value="Archivada" class="text-slate-400">Archivada (Cerrada)</option>
167             </select>
```

```
168         </div>
169     </div>
170 </div>
171
172     <button type="submit" class="w-full bg-sky-600 hover:bg-sky-700 text-white font-black py-4 rounded-xl transition-all
uppercase tracking-wider text-sm shadow-md mt-4">
173         <i class="fa-solid fa-save mr-2"></i>Guardar Expediente
174     </button>
175 </form>
176 </div>
177 </div>
178 </main>
179
180 <!-- MODAL: AGREGAR CONTACTO -->
181 <div id="modalContacto" class="fixed inset-0 bg-slate-900/60 z-50 hidden flex items-center justify-center backdrop-blur-sm p-4">
182     <div class="bg-white dark:bg-slate-900 p-6 rounded-3xl shadow-2xl w-full max-w-sm border border-slate-200 dark:border-slate-800">
183         <div class="flex justify-between items-center mb-4 border-b border-slate-100 dark:border-slate-800 pb-2">
184             <h3 class="text-lg font-black uppercase tracking-tight text-emerald-600"><i class="fa-solid fa-address-book mr-2"></i>Nuevo
Contacto</h3>
185             <button type="button" onclick="cerrarModalContacto()" class="text-slate-400 hover:text-red-500"><i class="fa-solid fa-xmark text-
xl"></i></button>
186         </div>
187
188         <p class="text-xs font-bold text-slate-500 mb-4 uppercase tracking-widest">Para: <span id="lbl_empresa_contacto" class="text-slate-
800 dark:text-slate-200 font-black"></span></p>
189
190         <form action="{{ url_for('config.guardar_contacto') }}" method="POST" class="space-y-4">
191             <input type="hidden" name="id_empresa_contacto" id="form_id_empresa_contacto">
192
193             <div>
194                 <label class="block text-[10px] font-black text-slate-500 mb-1 uppercase">Nombre Completo*</label>
195                 <input type="text" name="nombre_contacto" required class="w-full px-4 py-2 border-2 rounded-xl dark:bg-slate-800 dark:border-
slate-700 outline-none focus:border-emerald-500 font-bold text-sm">
196             </div>
197             <div>
198                 <label class="block text-[10px] font-black text-slate-500 mb-1 uppercase">Cargo / Puesto (Ej: Jefa RRHH)</label>
199                 <input type="text" name="cargo_contacto" class="w-full px-4 py-2 border-2 rounded-xl dark:bg-slate-800 dark:border-slate-700
outline-none focus:border-emerald-500 font-bold text-sm">
200             </div>
```

```

201         <div>
202             <label class="block text-[10px] font-black text-slate-500 mb-1 uppercase">Celular / Teléfono Directo</label>
203             <input type="text" name="celular_contacto" class="w-full px-4 py-2 border-2 rounded-xl dark:bg-slate-800 dark:border-slate-
700 outline-none focus:border-emerald-500 font-bold text-sm">
204         </div>
205         <div>
206             <label class="block text-[10px] font-black text-slate-500 mb-1 uppercase">Email</label>
207             <input type="email" name="email_contacto" class="w-full px-4 py-2 border-2 rounded-xl dark:bg-slate-800 dark:border-slate-700
outline-none focus:border-emerald-500 font-bold text-sm">
208         </div>
209
210         <button type="submit" class="w-full bg-emerald-600 hover:bg-emerald-700 text-white font-black py-3 rounded-xl mt-4 transition
uppercase tracking-wider text-sm">Guardar Contacto</button>
211     </form>
212 </div>
213 </div>
214
215 <script>
216     function editarEmpresa(id, fantasia, fiscal, rut, dir, loc, dep, mail, cant, tipo, estado) {
217         document.getElementById('titulo_formulario').innerText = "Editando: " + fantasia;
218         document.getElementById('form_id_empresa').value = id;
219         document.getElementById('form_nombre_fantasia').value = fantasia;
220         document.getElementById('form_nombre_fiscal').value = fiscal;
221         document.getElementById('form_rut').value = rut;
222         document.getElementById('form_direccion').value = dir;
223         document.getElementById('form_localidad').value = loc;
224         document.getElementById('form_departamento').value = dep;
225         document.getElementById('form_mail_oficial').value = mail;
226         document.getElementById('form_cant_trabajadores').value = cant;
227         document.getElementById('form_tipo').value = tipo;
228         document.getElementById('form_estado').value = estado;
229
230         document.getElementById('seccion_formulario').scrollIntoView({ behavior: 'smooth', block: 'start' });
231     }
232
233     function limpiarFormulario() {
234         document.getElementById('titulo_formulario').innerText = "Nueva Entidad";
235         document.getElementById('form_id_empresa').value = "";
236         document.getElementById('form_nombre_fantasia').value = "";

```

```

237     document.getElementById('form_nombre_fiscal').value = "";
238     document.getElementById('form_rut').value = "";
239     document.getElementById('form_direccion').value = "";
240     document.getElementById('form_localidad').value = "";
241     document.getElementById('form_departamento').value = "";
242     document.getElementById('form_mail_oficial').value = "";
243     document.getElementById('form_cant_trabajadores').value = "0";
244     document.getElementById('form_tipo').value = "Empresa";
245     document.getElementById('form_estado').value = "Activa";
246
247     document.getElementById('seccion_formulario').scrollIntoView({ behavior: 'smooth', block: 'start' });
248 }
249
250 function abrirModalContacto(id_empresa, nombre_fantasia) {
251     document.getElementById('form_id_empresa_contacto').value = id_empresa;
252     document.getElementById('lbl_empresa_contacto').innerText = nombre_fantasia;
253     document.getElementById('modalContacto').classList.remove('hidden');
254     document.getElementById('modalContacto').classList.add('flex');
255 }
256
257 function cerrarModalContacto() {
258     document.getElementById('modalContacto').classList.add('hidden');
259     document.getElementById('modalContacto').classList.remove('flex');
260 }
261 </script>
262 </body>
263 </html>

```

#### templates\config\_panel.html

```

1 <!DOCTYPE html>
2 <html lang="es" class="{ 'dark' if tema == 1 else '' }">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>UTRAU - Centro de Mando</title>
7     <script src="https://cdn.tailwindcss.com"></script>
8     <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/font-awesome@6.0.0/css/all.min.css">
9     <script>

```

```

10     tailwind.config = { darkMode: 'class', theme: { extend: {} } }
11 </script>
12 </head>
13 <body class="bg-slate-100 dark:bg-slate-950 text-slate-900 dark:text-slate-100 transition-colors duration-300 min-h-screen">
14
15     <nav class="bg-slate-900 border-b border-slate-800 p-4 flex justify-between items-center shadow-md text-white">
16         <div class="flex items-center space-x-3">
17             <span class="font-black text-red-500">UTRAU <span class="text-slate-400 font-bold"> | MANDO</span></span>
18         </div>
19         <div class="flex items-center space-x-4">
20             <a href="{ url_for('index') }" class="text-xs font-bold uppercase text-blue-400 hover:text-blue-300 transition">Volver al Inicio</a>
21             <span class="text-xs font-bold uppercase border-l border-slate-700 pl-4">{{ user_nom }}</span>
22         </div>
23     </nav>
24
25     <div class="max-w-6xl mx-auto px-6 mt-4">
26         {% with messages = get_flashed_messages(with_categories=true) %}
27             {% if messages %}
28                 {% for category, message in messages %}
29                     {% if category == 'success' %}
30                         <div class="bg-emerald-100 dark:bg-emerald-900/30 border border-emerald-500 text-emerald-700 dark:text-emerald-400 px-4
31 py-3 rounded-xl flex items-center mb-4 shadow-sm animate-fade-in-down">
32                             <i class="fa-solid fa-circle-check mr-3 text-lg"></i><span class="text-sm font-bold tracking-wide">{{ message }}
33 </span>
34                             </div>
35                             {% elif category == 'error' %}
36                                 <div class="bg-red-100 dark:bg-red-900/30 border border-red-500 text-red-700 dark:text-red-400 px-4 py-3 rounded-xl flex
37 items-center mb-4 shadow-sm animate-fade-in-down">
38                                     <i class="fa-solid fa-triangle-exclamation mr-3 text-lg"></i><span class="text-sm font-bold tracking-wide">{{ message
39 }}</span>
40                                     </div>
41                                     {% elif category == 'warning' %}
42                                     <div class="bg-yellow-100 dark:bg-yellow-900/30 border border-yellow-500 text-yellow-700 dark:text-yellow-400 px-4 py-3
43 rounded-xl flex items-center mb-4 shadow-sm animate-fade-in-down">
44                                         <i class="fa-solid fa-circle-exclamation mr-3 text-lg"></i><span class="text-sm font-bold tracking-wide">{{ message }}
45                                         </span>
46                                         </div>
47                                         {% endif %}
48                                     {% endfor %}
49                                     {% endfor %}

```

```
43         {% endif %}
44     {% endwith %}
45 </div>
46
47 <main class="p-6 max-w-6xl mx-auto">
48     <h1 class="text-3xl font-black mb-2 uppercase tracking-tight">Centro de Configuración</h1>
49     <p class="text-sm text-slate-500 dark:text-slate-400 mb-8 font-bold uppercase tracking-widest">Acceso exclusivo: Ejecutivo y
Administración</p>
50
51     <div class="grid grid-cols-1 md:grid-cols-2 lg:grid-cols-3 xl:grid-cols-5 gap-6">
52
53         <a href="{% url_for('config.terminales') %}" class="bg-white dark:bg-slate-900 p-8 rounded-2xl border border-slate-200 dark:border-
slate-800 shadow-sm hover:border-blue-500 transition group flex flex-col items-center text-center cursor-pointer">
54             <i class="fa-solid fa-mobile-screen text-4xl mb-4 text-blue-500 group-hover:scale-110 transition"></i>
55             <h3 class="text-lg font-black uppercase tracking-wide mb-1">Terminales</h3>
56             <p class="text-[10px] text-slate-500 font-bold uppercase">Aprobar dispositivos</p>
57         </a>
58
59         <a href="{% url_for('config.usuarios') %}" class="bg-white dark:bg-slate-900 p-8 rounded-2xl border border-slate-200 dark:border-
slate-800 shadow-sm hover:border-emerald-500 transition group flex flex-col items-center text-center cursor-pointer">
60             <i class="fa-solid fa-users text-4xl mb-4 text-emerald-500 group-hover:scale-110 transition"></i>
61             <h3 class="text-lg font-black uppercase tracking-wide mb-1">Compañeros</h3>
62             <p class="text-[10px] text-slate-500 font-bold uppercase">Gestión de Usuarios</p>
63         </a>
64
65         <a href="{% url_for('config.cargos') %}" class="bg-white dark:bg-slate-900 p-8 rounded-2xl border border-slate-200 dark:border-slate-
800 shadow-sm hover:border-purple-500 transition group flex flex-col items-center text-center cursor-pointer">
66             <i class="fa-solid fa-sitemap text-4xl mb-4 text-purple-500 group-hover:scale-110 transition"></i>
67             <h3 class="text-lg font-black uppercase tracking-wide mb-1">Cargos</h3>
68             <p class="text-[10px] text-slate-500 font-bold uppercase">Definición Estatutaria</p>
69         </a>
70
71         <a href="{% url_for('config.asignaciones') %}" class="bg-white dark:bg-slate-900 p-8 rounded-2xl border border-slate-200 dark:border-
slate-800 shadow-sm hover:border-amber-500 transition group flex flex-col items-center text-center cursor-pointer">
72             <i class="fa-solid fa-id-card-clip text-4xl mb-4 text-amber-500 group-hover:scale-110 transition"></i>
73             <h3 class="text-lg font-black uppercase tracking-wide mb-1">Asignaciones</h3>
74             <p class="text-[10px] text-slate-500 font-bold uppercase">Directiva y Ejecutivo</p>
75         </a>
76
```

```

77         <!-- NUEVO MÓDULO: EMPRESAS Y ORGANISMOS -->
78         <a href="{{ url_for('config.empresas') }}" class="bg-white dark:bg-slate-900 p-8 rounded-2xl border border-slate-200 dark:border-
slate-800 shadow-sm hover:border-sky-500 transition group flex flex-col items-center text-center cursor-pointer">
79             <i class="fa-solid fa-building-user text-4xl mb-4 text-sky-500 group-hover:scale-110 transition"></i>
80             <h3 class="text-lg font-black uppercase tracking-wide mb-1">Entidades</h3>
81             <p class="text-[10px] text-slate-500 font-bold uppercase">Empresas y MTSS</p>
82         </a>
83
84     </div>
85 </main>
86 </body>
87 </html>

```

#### templates\config\_terminales.html

```

1 <!DOCTYPE html>
2 <html lang="es" class="{{ 'dark' if tema == 1 else '' }}">
3 <head>
4     <meta charset="UTF-8">
5     <title>UTRAU - Control de Terminales</title>
6     <script src="https://cdn.tailwindcss.com"></script>
7     <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/font-awesome@6.0.0/css/all.min.css">
8 </head>
9 <body class="bg-slate-100 dark:bg-slate-950 text-slate-900 dark:text-slate-100 min-h-screen">
10
11     <nav class="bg-slate-900 p-4 flex justify-between items-center text-white">
12         <span class="font-black text-blue-500">UTRAU <span class="text-slate-400">| TERMINALES</span></span></span>
13         <a href="{{ url_for('config.panel') }}" class="text-xs font-bold uppercase hover:text-blue-400"><i class="fa-solid fa-arrow-left mr-2">
</i>Volver</a>
14     </nav>
15
16     <main class="p-6 max-w-5xl mx-auto">
17         <h2 class="text-xl font-black uppercase mb-6">Autorización de Dispositivos</h2>
18
19         <div class="bg-white dark:bg-slate-900 rounded-2xl border border-slate-200 dark:border-slate-800 shadow-sm overflow-hidden">
20             <table class="w-full text-left">
21                 <tr class="bg-slate-100 dark:bg-slate-800 text-[10px] uppercase text-slate-500">
22                     <th class="p-4">Equipo / UUID</th>
23                     <th class="p-4">Usuario</th>
24                     <th class="p-4 text-center">Estado</th>

```



```

25         <th class="p-4 text-right">Acción</th>
26     </tr>
27     {% for t in terminales %}
28     <tr class="border-b dark:border-slate-800">
29         <td class="p-4 text-xs font-mono">{{ t.uuid_terminal[:15] }}...</td>
30         <td class="p-4">
31             <div class="flex items-center space-x-3">
32                 {% if t.path_foto %}
33                 
34
35                 {% elif t.alias %}
36                 <div class="w-8 h-8 rounded-full bg-slate-200 dark:bg-slate-800 flex items-center justify-center text-slate-500
font-black border-2 border-slate-300 dark:border-slate-700 text-xs">
37                     {{ t.nombre_completo[0:1] }}
38                 </div>
39                 {% else %}
40                 <div class="w-8 h-8 rounded-full bg-slate-200 dark:bg-slate-800 flex items-center justify-center text-slate-400
border-2 border-slate-300 dark:border-slate-700">
41                     <i class="fa-solid fa-desktop"></i>
42                 </div>
43                 {% endif %}
44                 <span class="font-bold">{{ t.alias or 'Sin asignar' }}</span>
45             </div>
46         </td>
47         <td class="p-4 text-center">
48             <span class="px-2 py-1 rounded text-[10px] font-black uppercase
49                 {% if t.estado == 'CONECTADO' %}bg-emerald-100 text-emerald-700
50                 {% elif t.estado == 'PENDIENTE' %}bg-yellow-100 text-yellow-700
51                 {% else %}bg-red-100 text-red-700{% endif %}">
52                 {{ t.estado }}
53             </span>
54         </td>
55         <td class="p-4 text-right space-x-2">
56             {% if t.estado != 'CONECTADO' %}
57             <a href="{{ url_for('config.accion_terminal', uuid=t.uuid_terminal, accion='autorizar') }}" class="text-emerald-500
hover:text-emerald-400"><i class="fa-solid fa-check"></i></a>
58             {% endif %}
59             {% if t.estado == 'CONECTADO' %}

```

```

59         <a href="{{ url_for('config.accion_terminal', uuid=t.uuid_terminal, accion='bloquear') }}" class="text-yellow-500
hover:text-yellow-400"><i class="fa-solid fa-lock"></i></a>
60         {% endif %}
61         <a href="{{ url_for('config.accion_terminal', uuid=t.uuid_terminal, accion='eliminar') }}" class="text-red-500 hover:text-
red-400"><i class="fa-solid fa-trash"></i></a>
62     </td>
63 </tr>
64 {% endfor %}
65 </table>
66 </div>
67 </main>
68 </body>
69 </html>

```

#### templates\config\_usuarios.html

```

1 <!DOCTYPE html>
2 <html lang="es" class="{{ 'dark' if tema == 1 else '' }}">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=no">
6     <title>UTRAU - Legajo de Compañeros</title>
7     <script src="https://cdn.tailwindcss.com"></script>
8     <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css">
9     <script>
10         tailwind.config = { darkMode: 'class', theme: { extend: {} } }
11     </script>
12 </head>
13 <body class="bg-slate-100 dark:bg-slate-950 text-slate-900 dark:text-slate-100 transition-colors duration-300 min-h-screen">
14
15     <nav class="bg-slate-900 border-b border-slate-800 p-4 flex justify-between items-center shadow-md text-white sticky top-0 z-40">
16         <div class="flex items-center space-x-3">
17             <span class="font-black text-emerald-500">UTRAU <span class="text-slate-400 font-bold">| LEGAJOS</span></span></div>
18         <a href="{{ url_for('config.panel') }}" class="text-xs font-bold uppercase text-slate-400 hover:text-white transition"><i class="fa-solid
fa-arrow-left mr-2"></i>Volver</a>
19     </nav>
20
21
22     <div class="max-w-7xl mx-auto px-6 mt-4">
23         {% with messages = get_flashed_messages(with_categories=true) %}

```

```

24     {% if messages %}
25         {% for category, message in messages %}
26             {% if category == 'success' %}
27                 <div class="bg-emerald-100 dark:bg-emerald-900/30 border border-emerald-500 text-emerald-700 dark:text-emerald-400 px-4
py-3 rounded-xl flex items-center mb-4 shadow-sm">
28                     <i class="fa-solid fa-circle-check mr-3 text-lg"></i><span class="text-sm font-bold">{{ message }}</span>
29                 </div>
30             {% elif category == 'error' %}
31                 <div class="bg-red-100 dark:bg-red-900/30 border border-red-500 text-red-700 dark:text-red-400 px-4 py-3 rounded-xl flex
items-center mb-4 shadow-sm">
32                     <i class="fa-solid fa-triangle-exclamation mr-3 text-lg"></i><span class="text-sm font-bold">{{ message }}</span>
33                 </div>
34             {% endif %}
35         {% endfor %}
36     {% endif %}
37 {% endwhile %}
38 </div>
39
40 <main class="p-6 max-w-7xl mx-auto grid grid-cols-1 xl:grid-cols-5 gap-6 items-start">
41
42     <div id="seccion_lista" class="xl:col-span-2 bg-white dark:bg-slate-900 rounded-2xl border border-slate-200 dark:border-slate-800 shadow-
sm overflow-hidden h-[50vh] xl:h-[85vh] flex flex-col scroll-mt-20">
43         <div class="p-6 border-b border-slate-200 dark:border-slate-800 bg-slate-50 dark:bg-slate-900/50 flex justify-between items-center">
44             <div>
45                 <h2 class="text-xl font-black uppercase tracking-tight">Padrón</h2>
46                 <p class="text-xs text-slate-500 font-bold mt-1">Directorio UTRAU.</p>
47             </div>
48             <button onclick="limpiarFormulario()" class="px-3 py-2 bg-blue-600 hover:bg-blue-700 text-white text-[10px] font-black uppercase
tracking-wider rounded-lg transition shadow-md">
49                 + Nuevo
50             </button>
51         </div>
52
53         <div class="overflow-y-auto flex-1">
54             <table class="w-full text-left border-collapse">
55                 <tbody class="text-sm font-medium">
56                     {% for u in lista_usuarios %}
57                     <tr class="border-b border-slate-100 dark:border-slate-800/50 hover:bg-slate-50 dark:hover:bg-slate-800/30 transition">
58                         <td class="p-4">

```

```

59         <div class="flex items-center space-x-3">
60             {% if u.path_foto %}
61                 
62             {% else %}
63                 <div class="w-12 h-12 rounded-full bg-slate-200 dark:bg-slate-800 flex items-center justify-center text-
slate-500 font-black border-2 border-slate-300 dark:border-slate-700">
64                     {{ u.nombre_completo[0:1] }}
65                 </div>
66             {% endif %}
67         <div>
68             <p class="font-black text-slate-800 dark:text-slate-200 text-sm leading-tight">{{ u.nombre_completo }}
</p>
69             <p class="text-[10px] text-slate-500 font-bold uppercase tracking-wide">
70                 @{{ u.alias }} |
71                 {% if u.estado == 'ACTIVO' %}<span class="text-emerald-500">ACTIVO</span>{% else %}<span class="text-
red-500">BAJA</span>{% endif %}
72             </p>
73
74             <div class="flex space-x-1 mt-1.5">
75                 {% if u.path_foto %}
76                     <a href="{{ u.path_foto }}" target="_blank" title="Ver Foto"></a>
77                 {% else %}
78                     <div class="w-6 h-6 rounded bg-red-50 dark:bg-red-900/20 border border-dashed border-red-300
dark:border-red-800/50 flex items-center justify-center text-red-400" title="Falta Foto"><i class="fa-solid fa-camera text-[9px]"></i></div>
79                 {% endif %}
80
81                 {% if u.path_firma %}
82                     <a href="{{ u.path_firma }}" target="_blank" title="Ver Firma"></a>
83                 {% else %}
84                     <div class="w-6 h-6 rounded bg-red-50 dark:bg-red-900/20 border border-dashed border-red-300
dark:border-red-800/50 flex items-center justify-center text-red-400" title="Falta Firma"><i class="fa-solid fa-signature text-[9px]"></i></div>
85                 {% endif %}
86
87                 {% if u.path_cedula_frente %}
88                     <a href="{{ u.path_cedula_frente }}" target="_blank" title="Ver CI Frente"></a>
89             {% else %}
90                 <div class="w-6 h-6 rounded bg-red-50 dark:bg-red-900/20 border border-dashed border-red-300
dark:border-red-800/50 flex items-center justify-center text-red-400" title="Falta C.I. Frente"><i class="fa-solid fa-id-card text-[9px]"></i>
</div>
91             {% endif %}
92
93             {% if u.path_cedula_atras %}
94                 <a href="{{ u.path_cedula_atras }}" target="_blank" title="Ver CI Atrás"></a>
95             {% else %}
96                 <div class="w-6 h-6 rounded bg-red-50 dark:bg-red-900/20 border border-dashed border-red-300
dark:border-red-800/50 flex items-center justify-center text-red-400" title="Falta C.I. Atrás"><i class="fa-solid fa-id-card text-[9px]"></i>
</div>
97             {% endif %}
98         </div>
99     </div>
100 </div>
101 </td>
102 <td class="p-4 text-right">
103     <button onclick="editarLegajo(
104         '{{ u.id_usuario }}', '{{ u.alias }}', '{{ u.nombre_completo }}', '{{ u.rol }}', '{{ u.estado }}', '{{
u.version }}',
105         '{{ u.tipo_documento }}', '{{ u.cedula_identidad or '' }}', '{{ u.fecha_nacimiento or '' }}',
106         '{{ u.whatsapp or '' }}', '{{ u.celular or '' }}', '{{ u.email or '' }}',
107         '{{ u.fecha_ingreso or '' }}', '{{ u.id_sector or '' }}', '{{ u.id_empresa or '' }}', '{{ u.tipo_contrato }}'
108     )" class="p-2.5 bg-slate-200 dark:bg-slate-700 hover:bg-blue-500 hover:text-white text-slate-700 dark:text-white
rounded-lg transition" title="Editar Legajo">
109         <i class="fa-solid fa-pen"></i>
110     </button>
111 </td>
112 </tr>
113 {% endfor %}
114 </tbody>
115 </table>
116 </div>
117 </div>
118

```

[illegible]

```
151         <select name="tipo_documento" id="form_tipo_documento" onchange="toggleDocumento()" class="w-1/3 px-2 py-2
rounded-xl border-2 border-slate-200 dark:border-slate-800 bg-transparent focus:border-emerald-500 outline-none font-bold text-sm">
152             <option value="CI" class="text-black">C.I.</option>
153             <option value="PASAPORTE" class="text-black">Pasaporte</option>
154             <option value="OTROS" class="text-black">Otro</option>
155         </select>
156         <input type="text" name="cedula_identidad" id="form_cedula_identidad" placeholder="Sin puntos ni guiones"
class="w-2/3 px-4 py-2 rounded-xl border-2 border-slate-200 dark:border-slate-800 bg-transparent focus:border-emerald-500 outline-none font-bold
text-sm">
157     </div>
158 </div>
159 <div>
160     <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase">Fecha Nacimiento</label>
161     <input type="date" name="fecha_nacimiento" id="form_fecha_nacimiento" class="w-full px-4 py-2 rounded-xl border-2
border-slate-200 dark:border-slate-800 bg-transparent focus:border-emerald-500 outline-none font-bold text-sm">
162 </div>
163 </div>
164 </div>
165
166 <div>
167     <h3 class="text-xs font-black uppercase text-slate-400 border-b border-slate-200 dark:border-slate-800 pb-2 mb-4"><i
class="fa-solid fa-briefcase mr-2"></i>Contacto y Laboral</h3>
168     <div class="grid grid-cols-1 md:grid-cols-3 gap-4">
169         <div>
170             <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase">Celular / WhatsApp</label>
171             <input type="text" name="whatsapp" id="form_whatsapp" class="w-full px-4 py-2 rounded-xl border-2 border-slate-
200 dark:border-slate-800 bg-transparent focus:border-emerald-500 outline-none font-bold text-sm">
172         </div>
173         <div class="md:col-span-2">
174             <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase">Email</label>
175             <input type="email" name="email" id="form_email" class="w-full px-4 py-2 rounded-xl border-2 border-slate-200
dark:border-slate-800 bg-transparent focus:border-emerald-500 outline-none font-bold text-sm">
176         </div>
177
178     <div>
179         <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase">Sector (Rama)</label>
180         <div class="flex space-x-2">
181             <select name="id_sector" id="form_id_sector" class="flex-1 px-3 py-2 rounded-xl border-2 border-slate-200
dark:border-slate-800 bg-transparent focus:border-emerald-500 outline-none font-bold text-sm">
```

```

182         <option value="" class="text-black">-- Seleccione --</option>
183         {% for s in lista_sectores %}
184         <option value="{{ s.id_sector }}" class="text-black">{{ s.codigo }} - {{ s.nombre }}</option>
185         {% endfor %}
186     </select>
187     <button type="button" onclick="document.getElementById('modalSector').classList.remove('hidden')" class="bg-
blue-600 hover:bg-blue-700 text-white px-3 py-2 rounded-xl font-black transition"><i class="fa-solid fa-plus"></i></button>
188 </div>
189 </div>
190
191 <div>
192     <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase">Empresa / Organismo</label>
193     <div class="flex space-x-2">
194         <select name="id_empresa" id="form_id_empresa" class="flex-1 px-3 py-2 rounded-xl border-2 border-slate-200
dark:border-slate-800 bg-transparent focus:border-emerald-500 outline-none font-bold text-sm">
195             <option value="" class="text-black">-- Seleccione --</option>
196             {% for e in lista_empresas %}
197             <option value="{{ e.id_empresa }}" class="text-black">{{ e.nombre_fantasia }}</option>
198             {% endfor %}
199         </select>
200     </div>
201 </div>
202
203 <div>
204     <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase">Contrato</label>
205     <select name="tipo_contrato" id="form_tipo_contrato" class="w-full px-4 py-2 rounded-xl border-2 border-slate-200
dark:border-slate-800 bg-transparent focus:border-emerald-500 outline-none font-bold text-sm">
206         <option value="MENSUAL" class="text-black">Mensual</option>
207         <option value="JORNALERO" class="text-black">Jornalero</option>
208         <option value="ZAFRAL" class="text-black">Zafral</option>
209         <option value="OTROS" class="text-black">Otros</option>
210     </select>
211 </div>
212 </div>
213 </div>
214
215 <div>
216     <h3 class="text-xs font-black uppercase text-slate-400 border-b border-slate-200 dark:border-slate-800 pb-2 mb-4"><i
class="fa-solid fa-camera mr-2"></i>Digitalización (Opcional)</h3>

```



```
217         <div class="grid grid-cols-1 md:grid-cols-2 gap-4">
218             <div class="p-3 border-2 border-dashed border-slate-300 dark:border-slate-700 rounded-xl bg-slate-50 dark:bg-slate-
800/50">
219                 <label class="block text-[10px] font-black text-slate-500 mb-1 uppercase text-center"><i class="fa-solid fa-user
mr-1"></i>Foto de Perfil</label>
220                 <input type="file" name="foto" accept="image/*" class="w-full text-xs text-slate-500 file:mr-4 file:py-2 file:px-
4 file:rounded-full file:border-0 file:text-xs file:font-black file:bg-blue-100 file:text-blue-700 hover:file:bg-blue-200 dark:file:bg-blue-
900/50 dark:file:text-blue-400">
221             </div>
222             <div class="p-3 border-2 border-dashed border-slate-300 dark:border-slate-700 rounded-xl bg-slate-50 dark:bg-slate-
800/50">
223                 <label class="block text-[10px] font-black text-slate-500 mb-1 uppercase text-center"><i class="fa-solid fa-
signature mr-1"></i>Foto Firma</label>
224                 <input type="file" name="firma" accept="image/*" class="w-full text-xs text-slate-500 file:mr-4 file:py-2
file:px-4 file:rounded-full file:border-0 file:text-xs file:font-black file:bg-emerald-100 file:text-emerald-700 hover:file:bg-emerald-200
dark:file:bg-emerald-900/50 dark:file:text-emerald-400">
225             </div>
226             <div class="p-3 border-2 border-dashed border-slate-300 dark:border-slate-700 rounded-xl bg-slate-50 dark:bg-slate-
800/50">
227                 <label class="block text-[10px] font-black text-slate-500 mb-1 uppercase text-center"><i class="fa-solid fa-id-
card mr-1"></i>C.I. Frente</label>
228                 <input type="file" name="cedula_frente" accept="image/*" class="w-full text-xs text-slate-500 file:mr-4 file:py-2
file:px-4 file:rounded-full file:border-0 file:text-xs file:font-black file:bg-slate-200 file:text-slate-700 hover:file:bg-slate-300
dark:file:bg-slate-700 dark:file:text-slate-300">
229             </div>
230             <div class="p-3 border-2 border-dashed border-slate-300 dark:border-slate-700 rounded-xl bg-slate-50 dark:bg-slate-
800/50">
231                 <label class="block text-[10px] font-black text-slate-500 mb-1 uppercase text-center"><i class="fa-solid fa-id-
card mr-1"></i>C.I. Atrás</label>
232                 <input type="file" name="cedula_atras" accept="image/*" class="w-full text-xs text-slate-500 file:mr-4 file:py-2
file:px-4 file:rounded-full file:border-0 file:text-xs file:font-black file:bg-slate-200 file:text-slate-700 hover:file:bg-slate-300
dark:file:bg-slate-700 dark:file:text-slate-300">
233             </div>
234         </div>
235     </div>
236
237     <div class="pt-4 border-t border-slate-100 dark:border-slate-800 flex justify-between items-center space-x-4">
238         <div class="flex-1 grid grid-cols-2 gap-4">
239             <div>
240                 <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase">Rol Actual (Lectura)</label>
```

```
241         <select id="form_rol" disabled class="w-full px-4 py-3 rounded-xl border-2 border-slate-200 dark:border-slate-800
bg-slate-200 dark:bg-slate-800/50 text-slate-500 font-black text-sm opacity-70 cursor-not-allowed">
242             <option value="1">1 - Afiliado Base</option>
243             <option value="2">2 - Directiva</option>
244             <option value="3">3 - Ejecutivo</option>
245         </select>
246         <p class="text-[9px] font-bold text-slate-400 mt-1">El rol se actualiza desde Asignaciones.</p>
247     </div>
248     <div>
249         <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase">Estado en Padrón</label>
250         <select name="estado" id="form_estado" class="w-full px-4 py-3 rounded-xl border-2 border-slate-200 dark:border-
slate-800 bg-slate-100 dark:bg-slate-900 focus:border-emerald-500 font-black text-sm text-emerald-600">
251             <option value="ACTIVO" class="text-black">ACTIVO</option>
252             <option value="INACTIVO" class="text-red-600">INACTIVO (Baja)</option>
253         </select>
254     </div>
255 </div>
256 </div>
257
258     <button type="submit" class="w-full bg-emerald-600 hover:bg-emerald-700 text-white font-black py-4 rounded-xl transition-all
uppercase tracking-wider text-sm shadow-md mt-4">
259         <i class="fa-solid fa-save mr-2"></i>Guardar Legajo
260     </button>
261
262 </form>
263 </div>
264 </div>
265 </main>
266
267 <div id="modalSector" class="fixed inset-0 bg-black/60 z-50 hidden flex items-center justify-center backdrop-blur-sm">
268     <div class="bg-white dark:bg-slate-900 p-6 rounded-2xl shadow-xl w-full max-w-sm border border-slate-200 dark:border-slate-800">
269         <h3 class="text-lg font-black uppercase mb-4">Nuevo Sector</h3>
270         <div class="space-y-4">
271             <div>
272                 <label class="block text-[10px] font-black text-slate-500 mb-1 uppercase">Código (Ej: G23-01)</label>
273                 <input type="text" id="nuevo_sector_codigo" class="w-full px-3 py-2 border-2 rounded-xl dark:bg-slate-800 dark:border-slate-
700 outline-none focus:border-blue-500 font-bold">
274             </div>
275             <div>
```

```

276         <label class="block text-[10px] font-black text-slate-500 mb-1 uppercase">Descripción</label>
277         <input type="text" id="nuevo_sector_nombre" class="w-full px-3 py-2 border-2 rounded-xl dark:bg-slate-800 dark:border-slate-
700 outline-none focus:border-blue-500 font-bold">
278     </div>
279     <div class="flex space-x-2 pt-2">
280         <button type="button" onclick="document.getElementById('modalSector').classList.add('hidden')" class="flex-1 bg-slate-200
dark:bg-slate-800 text-slate-700 dark:text-slate-300 font-black py-2 rounded-xl">Cancelar</button>
281         <button type="button" onclick="guardarSector()" class="flex-1 bg-blue-600 hover:bg-blue-700 text-white font-black py-2
rounded-xl">Guardar</button>
282     </div>
283 </div>
284 </div>
285 </div>
286
287 <script>
288     function toggleDocumento() {
289         const tipo = document.getElementById('form_tipo_documento').value;
290         const input = document.getElementById('form_cedula_identidad');
291         if (tipo === 'CI') {
292             input.type = "number";
293             input.placeholder = "Sin puntos ni guiones";
294         } else {
295             input.type = "text";
296             input.placeholder = "Número de Documento";
297         }
298     }
299
300     function editarLegajo(id, alias, nombre, rol, estado, version, tipo_doc, ci, fnac, wp, cel, email, fingreso, id_sector, id_empresa,
contrato) {
301         document.getElementById('titulo_formulario').innerText = "Editando Legajo: " + nombre;
302         document.getElementById('form_id_usuario').value = id;
303         document.getElementById('form_version').value = version;
304         document.getElementById('form_alias').value = alias;
305         document.getElementById('form_nombre_completo').value = nombre;
306         document.getElementById('form_pin_firma').value = "";
307         document.getElementById('form_pin_firma').required = false;
308         document.getElementById('form_tipo_documento').value = tipo_doc || 'CI';
309         toggleDocumento();
310         document.getElementById('form_cedula_identidad').value = ci;

```

```

311 document.getElementById('form_fecha_nacimiento').value = fnac;
312 document.getElementById('form_whatsapp').value = wp;
313 document.getElementById('form_email').value = email;
314 document.getElementById('form_id_sector').value = id_sector;
315 document.getElementById('form_id_empresa').value = id_empresa;
316 document.getElementById('form_tipo_contrato').value = contrato || 'MENSUAL';
317 document.getElementById('form_rol').value = rol;
318 document.getElementById('form_estado').value = estado;
319
320 document.getElementById('seccion_formulario').scrollIntoView({ behavior: 'smooth', block: 'start' });
321 }
322
323 function limpiarFormulario() {
324     document.getElementById('titulo_formulario').innerText = "Alta de Legajo Digital";
325     document.getElementById('form_id_usuario').value = "";
326     document.getElementById('form_version').value = "1";
327     document.getElementById('form_alias').value = "";
328     document.getElementById('form_nombre_completo').value = "";
329     document.getElementById('form_pin_firma').value = "";
330     document.getElementById('form_pin_firma').required = true;
331     document.getElementById('form_tipo_documento').value = 'CI';
332     toggleDocumento();
333     document.getElementById('form_cedula_identidad').value = "";
334     document.getElementById('form_fecha_nacimiento').value = "";
335     document.getElementById('form_whatsapp').value = "";
336     document.getElementById('form_email').value = "";
337     document.getElementById('form_id_sector').value = "";
338     document.getElementById('form_id_empresa').value = "";
339     document.getElementById('form_tipo_contrato').value = "MENSUAL";
340     document.getElementById('form_rol').value = "1";
341     document.getElementById('form_estado').value = "ACTIVO";
342
343     document.getElementById('seccion_formulario').scrollIntoView({ behavior: 'smooth', block: 'start' });
344 }
345
346 async function guardarSector() {
347     const cod = document.getElementById('nuevo_sector_codigo').value;
348     const nom = document.getElementById('nuevo_sector_nombre').value;
349     if(!cod || !nom) return alert("Completá ambos campos");

```

```

350
351     let formData = new FormData();
352     formData.append('codigo', cod);
353     formData.append('nombre', nom);
354
355     let req = await fetch("{{ url_for('config.ajax_add_sector') }}", { method: 'POST', body: formData });
356     let res = await req.json();
357
358     if(res.success) {
359         let select = document.getElementById('form_id_sector');
360         select.add(new Option(res.codigo + ' - ' + res.nombre, res.id_sector));
361         select.value = res.id_sector;
362         document.getElementById('modalSector').classList.add('hidden');
363         document.getElementById('nuevo_sector_codigo').value = '';
364         document.getElementById('nuevo_sector_nombre').value = '';
365     } else {
366         alert("Error: " + res.error);
367     }
368 }
369 </script>
370 </body>
371 </html>

```

#### templates\index.html

```

1 <!DOCTYPE html>
2 <html lang="es" class="{{ 'dark' if tema == 1 else '' }}">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>UTRAU - Panel Operativo</title>
7     <script src="https://cdn.tailwindcss.com"></script>
8     <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css">
9     <script>
10         tailwind.config = { darkMode: 'class', theme: { extend: {} } }
11     </script>
12 </head>
13 <body class="bg-slate-100 dark:bg-slate-950 text-slate-900 dark:text-slate-100 transition-colors duration-300 min-h-screen">
14

```

```
15 <nav class="bg-white dark:bg-slate-900 border-b border-slate-200 dark:border-slate-800 p-4 flex justify-between items-center shadow-sm">
16   <div class="flex items-center space-x-3">
17     <span class="font-black text-blue-600 dark:text-blue-400">UTRAU</span>
18     <span class="text-xs uppercase tracking-widest text-slate-500 hidden md:inline">Panel Operativo</span>
19   </div>
20
21   <div class="flex items-center space-x-4">
22     {% if session.get('user_rol', 0) >= 3 %}
23     <a href="{{ url_for('config.panel') }}" class="px-3 py-2 bg-red-600 hover:bg-red-700 text-white rounded-lg text-xs font-black
uppercase transition shadow-md flex items-center">
24       <i class="fa-solid fa-gears md:mr-2"></i>
25       <span class="hidden md:inline">Centro de Mando</span>
26     </a>
27     {% endif %}
28
29     <a href="{{ url_for('auth.toggle_theme') }}" class="p-2 bg-slate-200 dark:bg-slate-800 rounded-lg hover:bg-slate-300 dark:hover:bg-
slate-700 transition" title="Cambiar Tema">
30       <i class="fa-solid fa-circle-half-stroke"></i>
31     </a>
32
33     <span class="text-xs font-bold uppercase border-l border-slate-300 dark:border-slate-700 pl-4">{{ user_nom }}</span>
34     <a href="{{ url_for('auth.logout') }}" class="text-xs font-black text-red-500 uppercase hover:text-red-700 transition">Cerrar
Sesión</a>
35   </div>
36 </nav>
37
38 <main class="p-6 max-w-6xl mx-auto mt-4">
39   <h1 class="text-2xl font-black mb-6 uppercase tracking-tight">Resumen Ejecutivo</h1>
40
41   <div class="grid grid-cols-1 md:grid-cols-3 gap-6 mb-8">
42     <div class="bg-white dark:bg-slate-900 p-6 rounded-2xl border border-slate-200 dark:border-slate-800 shadow-sm flex flex-col justify-
between">
43       <h3 class="text-[10px] font-bold text-slate-500 uppercase tracking-widest mb-2">Conflictos Activos</h3>
44       <p class="text-4xl font-black text-red-500">{{ total_conflictos }}</p>
45     </div>
46
47     <div class="bg-white dark:bg-slate-900 p-6 rounded-2xl border border-slate-200 dark:border-slate-800 shadow-sm flex flex-col justify-
between">
48       <h3 class="text-[10px] font-bold text-slate-500 uppercase tracking-widest mb-2">Actividades Futuras</h3>
```

```

49         <p class="text-4xl font-black text-blue-500">{{ actividades_futuras }}</p>
50     </div>
51
52     <div class="bg-white dark:bg-slate-900 p-6 rounded-2xl border border-slate-200 dark:border-slate-800 shadow-sm flex flex-col justify-
between">
53         <h3 class="text-[10px] font-bold text-slate-500 uppercase tracking-widest mb-2">Compañeros (Padrón)</h3>
54         <p class="text-4xl font-black text-emerald-500">{{ total_companeros }}</p>
55     </div>
56 </div>
57
58     <div class="grid grid-cols-2 md:grid-cols-4 gap-4">
59         <a href="{{ url_for('agenda.vista_agenda') }}" class="p-6 bg-white dark:bg-slate-900 border border-slate-200 dark:border-slate-800
rounded-2xl hover:border-blue-500 transition group flex flex-col items-center text-center shadow-sm">
60             <i class="fa-solid fa-calendar-days text-4xl mb-4 text-blue-500 group-hover:scale-110 transition"></i>
61             <span class="text-xs font-black uppercase tracking-widest text-slate-700 dark:text-slate-300">Agenda Operativa</span>
62         </a>
63
64         {% for item in menu %}
65         <a href="{{ item.vista_destino }}" class="p-6 bg-white dark:bg-slate-900 border border-slate-200 dark:border-slate-800 rounded-2xl
hover:border-blue-500 transition group flex flex-col items-center text-center shadow-sm">
66             <i class="{{ item.icono }}" text-4xl mb-4 text-blue-500 group-hover:scale-110 transition"></i>
67             <span class="text-xs font-black uppercase tracking-widest text-slate-700 dark:text-slate-300">{{ item.nombre_boton }}</span>
68         </a>
69         {% endfor %}
70
71     <div class="p-6 border-2 border-dashed border-slate-300 dark:border-slate-700 rounded-2xl flex flex-col items-center justify-center
text-center opacity-50 cursor-not-allowed">
72         <i class="fa-solid fa-gavel text-3xl mb-3 text-slate-400"></i>
73         <span class="text-[10px] font-bold uppercase tracking-widest text-slate-400">Conflictos<br>(Próximamente)</span>
74     </div>
75 </div>
76 </main>
77 </body>
78 </html>

```

templates\login.html

```

1 <!DOCTYPE html>
2 <html lang="es">
3 <head>

```

```
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=no">
6 <title>UTRAU - Acceso Seguro</title>
7 <script src="https://cdn.tailwindcss.com"></script>
8 <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/font-awesome@6.0.0/css/all.min.css">
9 <style>
10     @keyframes float { 0%, 100% { transform: translateY(0px); } 50% { transform: translateY(-12px); } }
11     @keyframes scan { 0% { top: 0%; opacity: 0; } 10% { opacity: 1; } 90% { opacity: 1; } 100% { top: 100%; opacity: 0; } }
12     @keyframes fadeInUp { from { transform: translateY(25px); opacity: 0; } to { transform: translateY(0); opacity: 1; } }
13 </style>
14 </head>
15 <body class="bg-slate-900 flex items-center justify-center min-h-screen p-3 relative font-sans">
16
17     <div id="preloader-julmar" class="fixed inset-0 bg-slate-950 z-[9999] flex flex-col justify-between items-center p-8 transition-all duration-
18 1000 ease-in-out">
19         <div></div>
20         <div class="flex flex-col items-center justify-center space-y-6 relative">
21             <div class="relative w-40 h-40 flex items-center justify-center">
22                 <div class="absolute inset-0 bg-blue-500/10 rounded-full blur-2xl animate-pulse"></div>
23                 
25                 <div class="absolute inset-x-0 h-0.5 bg-gradient-to-r from-transparent via-cyan-400 to-transparent z-20 opacity-70 animate-
26 [scan_2.5s_linear_infinite]"></div>
27             </div>
28             <div class="text-center space-y-1">
29                 <h1 class="text-2xl font-black text-white tracking-widest uppercase font-mono">UTRAU</h1>
30                 <p class="text-[10px] font-bold text-cyan-400 uppercase tracking-[0.3em] animate-pulse">Operating System Active</p>
31             </div>
32             <div class="flex flex-col items-center justify-center pt-8 pb-8 opacity-0 animate-[fadeInUp_1.2s_ease-out_0.5s_forwards]">
33                 <span class="text-[10px] font-black text-slate-600 uppercase tracking-[0.5em] block mb-3 opacity-90">Powered By</span>
34                 
36             </div>
37         </div>
38
39     <div class="bg-slate-900 border border-slate-800 p-8 rounded-[2rem] shadow-2xl w-full max-w-md z-10 text-white">
40         <div class="flex flex-col items-center text-center mb-6">
41             
```



```
41     <h2 class="text-xl font-black text-blue-500 tracking-wider uppercase">UTRAU</h2>
42     <p class="text-[9px] font-bold text-slate-500 uppercase tracking-widest">Acceso Operativo Centralizado</p>
43 </div>
44
45 {% if error %}
46 <div class="bg-red-900/50 border border-red-700 text-red-400 px-4 py-3 rounded-2xl text-xs font-black text-center uppercase mb-4">
47     {{ error }}
48 </div>
49 {% endif %}
50
51 <form action="/login" method="POST" id="loginForm" class="space-y-4">
52     <div>
53         <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase tracking-wide ml-1">Compañero</label>
54         <input type="text" name="alias" required
55             class="w-full px-4 py-4 rounded-2xl border-2 border-slate-800 bg-slate-950 focus:border-blue-500 outline-none font-bold text-
white transition">
56     </div>
57     <div>
58         <label class="block text-[10px] font-black text-slate-500 mb-1.5 uppercase tracking-widest ml-1">PIN de Firma</label>
59         <input type="password" name="pin_firma" required
60             class="w-full px-4 py-4 rounded-2xl border-2 border-slate-800 bg-slate-950 focus:border-blue-500 outline-none text-center
text-2xl tracking-[1em] font-black text-white transition">
61     </div>
62
63     <input type="hidden" name="uuid_terminal" id="uuid_terminal">
64     <input type="hidden" name="nombre_equipo" id="nombre_equipo">
65
66     <button type="submit" id="btnIngresar"
67         class="w-full bg-blue-600 hover:bg-blue-700 text-white font-black py-4 rounded-2xl transition-all uppercase tracking-wider text-
sm">
68         Ingresar al Sistema
69     </button>
70 </form>
71
72 <div class="mt-8 pt-4 border-t border-slate-800/60 text-[9px] font-black uppercase tracking-wider text-slate-600">
73     <div class="flex justify-between mb-2">
74         <span>Terminal:</span>
75         <span class="text-slate-400 font-mono" id="display_uuid">Analizando...</span>
76     </div>
```

```

77     <div class="flex justify-between">
78         <span>Estado:</span>
79         <span class="text-emerald-400 font-black">ESPERANDO ACCESO</span>
80     </div>
81 </div>
82 </div>
83
84 <script>
85     function generarUUID() {
86         if (window.crypto && window.crypto.randomUUID) {
87             try {
88                 return window.crypto.randomUUID();
89             } catch(e) {}
90         }
91         return 'xxxxxxxx-xxxx-4xxx-yxxx-xxxxxxxxxxxx'.replace(/[xy]/g, function(c) {
92             var r = Math.random() * 16 | 0, v = c == 'x' ? r : (r & 0x3 | 0x8);
93             return v.toString(16);
94         });
95     }
96
97     window.addEventListener('load', () => {
98         let uuid = localStorage.getItem('utrau_device_uuid');
99
100         if (!uuid) {
101             uuid = generarUUID();
102             localStorage.setItem('utrau_device_uuid', uuid);
103         }
104
105         document.getElementById('uuid_terminal').value = uuid;
106         document.getElementById('nombre_equipo').value = navigator.userAgent.substring(0, 99);
107         document.getElementById('display_uuid').innerText = uuid.substring(0, 8) + '...';
108
109         setTimeout(() => {
110             const preloader = document.getElementById('preloader-julmar');
111             preloader.style.opacity = '0';
112             setTimeout(() => { preloader.remove(); }, 1000);
113         }, 3000);
114     });
115

```

```

116         document.getElementById('loginForm').onsubmit = function() {
117             document.getElementById('btnIngresar').disabled = true;
118             document.getElementById('btnIngresar').innerHTML = '<i class="fa-solid fa-circle-notch animate-spin mr-2"></i> Cargando...';
119         };
120     </script>
121 </body>
122 </html>

```

# .env

```

1 # Configuración de Base de Datos
2 DB_HOST=127.0.0.1
3 DB_USER=root
4 DB_PASSWORD=
5 DB_NAME=utrau_app_db
6 DB_PORT=3306
7
8 # Configuración Operativa
9 UTRAU_SECRET_KEY=utrau_secret_key_2026
10 UTRAU_PROD=False

```

# app.py

```

1 from flask import Flask, render_template, session
2 from auth import auth_bp
3 from rutas_config import config_bp
4 from rutas_agenda import agenda_bp
5 from backend.security import requiere_ejecutivo, requiere_login
6 from backend.db_core import get_connection
7
8 app = Flask(__name__)
9 app.secret_key = 'utrau_secret_2026'
10
11 app.register_blueprint(auth_bp)
12 app.register_blueprint(config_bp)
13 app.register_blueprint(agenda_bp)
14
15 @app.context_processor
16 def inject_theme():
17     return dict(tema=session.get('tema_visual', 0))

```

```

18
19 @app.route('/')
20 @requiere_login
21 def index():
22     db = get_connection()
23     cursor = db.cursor(dictionary=True)
24
25     if session.get('user_rol') == 4:
26         cursor.execute("SELECT * FROM utrau_menu_sistema ORDER BY orden")
27     else:
28         cursor.execute("SELECT * FROM utrau_menu_sistema WHERE FIND_IN_SET(%, roles_permitidos) ORDER BY orden", (session.get('user_rol'),))
29     menu = cursor.fetchall()
30
31     cursor.execute("SELECT COUNT(*) as total FROM utrau_conflictos")
32     total_conflictos = cursor.fetchone()['total']
33
34     cursor.execute("SELECT COUNT(*) as total FROM utrau_agenda WHERE fecha_inicio >= CURRENT_DATE() AND estado != 'Cerrado'")
35     actividades_futuras = cursor.fetchone()['total']
36
37     cursor.execute("SELECT COUNT(*) as total FROM utrau_usuarios WHERE estado = 'ACTIVO'")
38     total_companeros = cursor.fetchone()['total']
39
40     cursor.close()
41     db.close()
42
43     return render_template('index.html',
44                           user_nom=session.get('user_alias'),
45                           menu=menu,
46                           total_conflictos=total_conflictos,
47                           actividades_futuras=actividades_futuras,
48                           total_companeros=total_companeros)
49
50 if __name__ == '__main__':
51     app.run(debug=True, host='0.0.0.0', port=7000)

```

#### auth.py

```

1 from flask import Blueprint, request, session, redirect, url_for, render_template
2 from backend.db_core import get_connection

```

```

3
4 auth_bp = Blueprint('auth', __name__)
5
6 @auth_bp.route('/login', methods=['GET', 'POST'])
7 def login():
8     if request.method == 'GET':
9         return render_template('login.html')
10
11     alias_ingresado = request.form.get('alias', '').strip().upper()
12     pin_ingresado = request.form.get('pin_firma', '').strip()
13     uuid_terminal = request.form.get('uuid_terminal', '').strip()
14     nombre_equipo = request.form.get('nombre_equipo', 'Dispositivo Desconocido').strip()
15
16     db = get_connection()
17     cursor = db.cursor(dictionary=True)
18
19     try:
20         cursor.execute("SELECT * FROM utrau_usuarios WHERE alias = %s AND estado = 'ACTIVO'", (alias_ingresado,))
21         user = cursor.fetchone()
22
23         if not user or str(user['pin_firma']).strip() != pin_ingresado:
24             return render_template('login.html', error="Compañero no encontrado, inactivo o PIN incorrecto.")
25
26         if uuid_terminal:
27             cursor.execute("SELECT * FROM utrau_terminales_activas WHERE uuid_terminal = %s", (uuid_terminal,))
28             terminal = cursor.fetchone()
29
30             if not terminal:
31                 cursor.execute("""
32                     INSERT INTO utrau_terminales_activas (uuid_terminal, nombre_equipo, id_usuario_actual, estado)
33                     VALUES (%s, %s, %s, 'CONECTADO')
34                     """, (uuid_terminal, nombre_equipo, user['id_usuario']))
35             else:
36                 cursor.execute("""
37                     UPDATE utrau_terminales_activas
38                     SET estado = 'CONECTADO', id_usuario_actual = %s, ultima_conexion = CURRENT_TIMESTAMP
39                     WHERE uuid_terminal = %s
40                     """, (user['id_usuario'], uuid_terminal))
41

```

```
42     session.clear()
43     session['user_id'] = user['id_usuario']
44     session['user_rol'] = user['rol']
45     session['user_alias'] = user['alias']
46     session['tema_visual'] = user['tema_visual']
47
48     cursor.execute("UPDATE utrau_usuarios SET ultima_conexion = CURRENT_TIMESTAMP WHERE id_usuario = %s", (user['id_usuario'],))
49
50     db.commit()
51     return redirect(url_for('index'))
52
53 except Exception as e:
54     db.rollback()
55     return render_template('login.html', error=f"Error interno: {str(e)}")
56 finally:
57     cursor.close()
58     db.close()
59
60
61 @auth_bp.route('/toggle_theme')
62 def toggle_theme():
63     if 'user_id' not in session:
64         return redirect(url_for('auth.login'))
65
66     nuevo_tema = 1 if session.get('tema_visual', 0) == 0 else 0
67
68     try:
69         db = get_connection()
70         cursor = db.cursor()
71         cursor.execute("UPDATE utrau_usuarios SET tema_visual = %s WHERE id_usuario = %s", (nuevo_tema, session['user_id']))
72         db.commit()
73     except Exception as e:
74         pass
75     finally:
76         cursor.close()
77         db.close()
78
79     session['tema_visual'] = nuevo_tema
80     return redirect(request.referrer or url_for('index'))
```

```
81
82 @auth_bp.route('/logout')
83 def logout():
84     session.clear()
85     return redirect(url_for('auth.login'))
```

#### crear\_admin.py

```
1 from backend.db_core import get_connection
2
3 def crear_super_admin():
4     db = get_connection()
5     cursor = db.cursor()
6
7     try:
8         cursor.execute("SELECT * FROM utrau_usuarios WHERE alias = 'ADMIN'")
9         if cursor.fetchone():
10             print("El usuario ADMIN ya existe en la base de datos.")
11         else:
12             cursor.execute("""
13                 INSERT INTO utrau_usuarios (alias, nombre_completo, pin_firma, rol, estado)
14                 VALUES ('ADMIN', 'Administrador del Sistema', '1414', 4, 'ACTIVO')
15             """)
16             db.commit()
17             print("✅ ¡Super Admin creado con éxito! Alias: ADMIN | PIN: 1414")
18
19             cursor.execute("UPDATE utrau_terminales_activas SET estado = 'CONECTADO' WHERE estado = 'PENDIENTE'")
20             db.commit()
21             print("✅ Todas las terminales bloqueadas han sido liberadas.")
22
23     except Exception as e:
24         print(f"❌ Error al crear el administrador: {e}")
25         db.rollback()
26     finally:
27         cursor.close()
28         db.close()
29
30 if __name__ == '__main__':
31     crear_super_admin()
```

## rutas\_agenda.py

```
1 from flask import Blueprint, render_template, request, session, jsonify
2 from backend.db_core import get_connection
3 from backend.security import requiere_login, requiere_ejecutivo
4 from datetime import datetime
5
6 agenda_bp = Blueprint('agenda', __name__, url_prefix='/agenda')
7
8 @agenda_bp.route('/')
9 @requiere_login
10 def vista_agenda():
11     db = get_connection()
12     cursor = db.cursor(dictionary=True)
13     cursor.execute("SELECT id_usuario, alias, nombre_completo, path_foto FROM utrau_usuarios WHERE rol != 4 AND estado = 'ACTIVO' ORDER BY
nombre_completo")
14     lista_usuarios = cursor.fetchall()
15     cursor.close()
16     db.close()
17
18     return render_template('agenda.html',
19                             user_nom=session.get('user_alias'),
20                             user_rol=session.get('user_rol'),
21                             user_id=session.get('user_id'),
22                             lista_usuarios=lista_usuarios)
23
24 @agenda_bp.route('/api/eventos', methods=['GET'])
25 @requiere_login
26 def api_get_eventos():
27     start = request.args.get('start')
28     end = request.args.get('end')
29     user_id = session.get('user_id')
30     user_rol = session.get('user_rol')
31
32     db = get_connection()
33     cursor = db.cursor(dictionary=True)
34
35     try:
36         query = """
```



```

37     SELECT a.*, u.nombre_completo as creador_nombre
38     FROM utrau_agenda a
39     JOIN utrau_usuarios u ON a.id_creador = u.id_usuario
40     WHERE (a.fecha_inicio <= %s AND a.fecha_fin >= %s)
41     """
42     cursor.execute(query, (end, start))
43     eventos_db = cursor.fetchall()
44
45     cursor.execute("SELECT id_evento, id_usuario FROM utrau_agenda_participantes")
46     participantes_db = cursor.fetchall()
47
48     part_por_evento = {}
49     for p in participantes_db:
50         if p['id_evento'] not in part_por_evento:
51             part_por_evento[p['id_evento']] = []
52             part_por_evento[p['id_evento']].append(p['id_usuario'])
53
54     eventos_fc = []
55     for e in eventos_db:
56         ev_id = e['id_evento']
57         participantes = part_por_evento.get(ev_id, [])
58
59         puedo_ver_detalles = False
60         if user_rol >= 3:
61             puedo_ver_detalles = True
62         elif e['id_creador'] == user_id or user_id in participantes:
63             puedo_ver_detalles = True
64         elif e['visibilidad'] == 'Institucional':
65             puedo_ver_detalles = True
66
67         if puedo_ver_detalles:
68             color = '#3b82f6'
69             if e['estado'] == 'Fijado': color = '#10b981'
70             elif e['estado'] == 'Cerrado': color = '#64748b'
71
72             eventos_fc.append({
73                 'id': ev_id,
74                 'title': e['titulo'],
75                 'start': e['fecha_inicio'].isoformat(),

```

```

76         'end': e['fecha_fin'].isoformat(),
77         'allDay': bool(e['es_jornada_completa']),
78         'backgroundColor': color,
79         'borderColor': color,
80         'extendedProps': {
81             'descripcion': e['descripcion'],
82             'estado': e['estado'],
83             'visibilidad': e['visibilidad'],
84             'creador': e['creador_nombre'],
85             'soy_creador': (e['id_creador'] == user_id),
86             'participantes': len(participantes)
87         }
88     })
89     else:
90         eventos_fc.append({
91             'id': ev_id,
92             'title': 'Ocupado',
93             'start': e['fecha_inicio'].isoformat(),
94             'end': e['fecha_fin'].isoformat(),
95             'allDay': bool(e['es_jornada_completa']),
96             'backgroundColor': '#e2e8f0',
97             'borderColor': '#cbd5e1',
98             'textColor': '#64748b',
99             'extendedProps': {
100                 'estado': 'Privado',
101                 'visibilidad': 'Privado'
102             }
103         })
104
105     return jsonify(eventos_fc)
106 finally:
107     cursor.close()
108     db.close()
109
110 @agenda_bp.route('/api/eventos', methods=['POST'])
111 @requiere_login
112 def api_crear_evento():
113     data = request.json
114     user_id = session.get('user_id')

```

```
115 user_rol = session.get('user_rol')
116
117 if user_rol < 2:
118     return jsonify({'success': False, 'error': 'No tienes permisos de Directiva para proponer reuniones en la Agenda.'}), 403
119
120 titulo = data.get('titulo')
121 descripcion = data.get('descripcion', '')
122 start = data.get('start')
123 end = data.get('end')
124 allDay = 1 if data.get('allDay') else 0
125 visibilidad = data.get('visibilidad', 'Solo Participantes')
126 participantes = data.get('participantes', [])
127
128 if not titulo or not start or not end:
129     return jsonify({'success': False, 'error': 'Faltan datos obligatorios.'}), 400
130
131 db = get_connection()
132 cursor = db.cursor()
133
134 try:
135     sql_evento = """
136         INSERT INTO utrau_agenda (titulo, descripcion, fecha_inicio, fecha_fin, es_jornada_completa, estado, visibilidad, id_creador)
137         VALUES (%s, %s, %s, %s, %s, 'Propuesto', %s, %s)
138     """
139     cursor.execute(sql_evento, (titulo, descripcion, start, end, allDay, visibilidad, user_id))
140     nuevo_id = cursor.lastrowid
141
142     participantes_set = set(participantes)
143     participantes_set.add(str(user_id))
144
145     for p_id in participantes_set:
146         cursor.execute("INSERT INTO utrau_agenda_participantes (id_evento, id_usuario) VALUES (%s, %s)", (nuevo_id, p_id))
147
148     db.commit()
149     return jsonify({'success': True, 'id_evento': nuevo_id})
150 except Exception as e:
151     db.rollback()
152     return jsonify({'success': False, 'error': str(e)}), 500
153 finally:
```

```

154         cursor.close()
155         db.close()
156
157 @agenda_bp.route('/api/eventos/estado', methods=['POST'])
158 @requiere_ejecutivo
159 def api_cambiar_estado():
160     data = request.json
161     id_evento = data.get('id_evento')
162     nuevo_estado = data.get('estado')
163     user_id = session.get('user_id')
164
165     if nuevo_estado not in ['Fijado', 'Cerrado']:
166         return jsonify({'success': False, 'error': 'Estado no válido.'}), 400
167
168     db = get_connection()
169     cursor = db.cursor()
170     try:
171         if nuevo_estado == 'Fijado':
172             cursor.execute("UPDATE utrau_agenda SET estado = %s, id_fijador = %s WHERE id_evento = %s", (nuevo_estado, user_id, id_evento))
173         elif nuevo_estado == 'Cerrado':
174             cursor.execute("UPDATE utrau_agenda SET estado = %s, id_cerrador = %s WHERE id_evento = %s", (nuevo_estado, user_id, id_evento))
175         db.commit()
176         return jsonify({'success': True})
177     except Exception as e:
178         db.rollback()
179         return jsonify({'success': False, 'error': str(e)}), 500
180     finally:
181         cursor.close()
182         db.close()

```

## rutas\_config.py

```

1 from flask import Blueprint, render_template, redirect, url_for, request, session, flash, jsonify
2 from backend.db_core import get_connection
3 from backend.security import requiere_ejecutivo
4 import os
5 from datetime import datetime
6 from backend.utils import guardar_archivo, procesar_firma_transparente
7

```

```

8 config_bp = Blueprint('config', __name__, url_prefix='/configuracion')
9
10 @config_bp.route('/')
11 @requiere_ejecutivo
12 def panel():
13     return render_template('config_panel.html', user_nom=session.get('user_alias'))
14
15 @config_bp.route('/terminales')
16 @requiere_ejecutivo
17 def terminales():
18     db = get_connection()
19     cursor = db.cursor(dictionary=True)
20     cursor.execute("""
21         SELECT t.*, u.alias, u.nombre_completo, u.path_foto
22         FROM utrau_terminales_activas t
23         LEFT JOIN utrau_usuarios u ON t.id_usuario_actual = u.id_usuario
24         ORDER BY FIELD (t.estado, 'PENDIENTE', 'CONECTADO', 'DESCONECTADO'), t.ultima_conexion DESC
25     """)
26     lista_terminales = cursor.fetchall()
27     cursor.close()
28     db.close()
29     return render_template('config_terminales.html', terminales=lista_terminales, user_nom=session.get('user_alias'))
30
31 @config_bp.route('/terminales/accion/<uuid>/<accion>')
32 @requiere_ejecutivo
33 def accion_terminal (uuid, accion):
34     db = get_connection()
35     cursor = db.cursor()
36     try:
37         if accion == 'eliminar':
38             cursor.execute("DELETE FROM utrau_terminales_activas WHERE uuid_terminal = %s", (uuid,))
39             flash('Terminal eliminada correctamente del sistema.', 'success')
40         else:
41             estado = 'CONECTADO' if accion == 'autorizar' else 'DESCONECTADO'
42             cursor.execute("UPDATE utrau_terminales_activas SET estado = %s, version = version + 1 WHERE uuid_terminal = %s", (estado, uuid))
43             flash('Terminal autorizada con éxito.' if accion == 'autorizar' else 'Terminal bloqueada.', 'success' if accion == 'autorizar' else
'warning')
44             db.commit()
45     except Exception as e:

```

```

46         db.rollback()
47         flash('Error de base de datos.', 'error')
48     finally:
49         cursor.close()
50         db.close()
51     return redirect(url_for('config.terminales'))
52
53 @config_bp.route('/cargos')
54 @requiere_ejecutivo
55 def cargos():
56     db = get_connection()
57     cursor = db.cursor(dictionary=True)
58     cursor.execute("SELECT * FROM utrau_cargos ORDER BY orden ASC")
59     lista_cargos = cursor.fetchall()
60     cursor.close()
61     db.close()
62     return render_template('config_cargos.html', user_nom=session.get('user_alias'), lista_cargos=lista_cargos)
63
64 @config_bp.route('/cargos/guardar', methods=['POST'])
65 @requiere_ejecutivo
66 def guardar_cargo():
67     id_cargo = request.form.get('id_cargo')
68     nombre_cargo = request.form.get('nombre_cargo').strip()
69     es_ejecutivo = 1 if request.form.get('es_ejecutivo') == 'on' else 0
70     orden = request.form.get('orden', 0)
71     version_actual = request.form.get('version', 1)
72
73     db = get_connection()
74     cursor = db.cursor()
75     try:
76         if id_cargo:
77             cursor.execute("UPDATE utrau_cargos SET nombre_cargo = %s, es_ejecutivo = %s, orden = %s, version = version + 1 WHERE id_cargo = %s
78 AND version = %s",
79                             (nombre_cargo, es_ejecutivo, orden, id_cargo, version_actual))
79             if cursor.rowcount == 0:
80                 flash('Conflicto detectado: Cargo modificado por otro usuario.', 'error')
81             else:
82                 flash(f'Cargo "{nombre_cargo}" actualizado.', 'success')
83         else:

```

```

        cursor.execute("INSERT INTO utrau_cargos (nombre_cargo, es_ejecutivo, orden) VALUES (%s, %s, %s)", (nombre_cargo, es_ejecutivo,
orden))

        flash (f'Nuevo cargo "{nombre_cargo}" registrado.', 'success')
        db.commit()
    except Exception as e:
        db.rollback()
        flash('Error en la base de datos.', 'error')
    finally:
        cursor.close()
        db.close()
    return redirect(url_for('config.cargos'))

@config_bp.route('/usuarios')
@requiere_ejecutivo
def usuarios():
    db = get_connection()
    cursor = db.cursor(dictionary=True)
    cursor.execute("""
        SELECT u.*, s.nombre as nombre_sector, e.nombre_fantasia as nombre_empresa
        FROM utrau_usuarios u
        LEFT JOIN utrau_sectores s ON u.id_sector = s.id_sector
        LEFT JOIN utrau_empresas e ON u.id_empresa = e.id_empresa
        WHERE u.rol != 4 ORDER BY u.nombre_completo ASC
    """)
    lista_usuarios = cursor.fetchall()

    cursor.execute("SELECT * FROM utrau_sectores ORDER BY nombre ASC")
    lista_sectores = cursor.fetchall()

    cursor.execute("SELECT id_empresa, nombre_fantasia FROM utrau_empresas ORDER BY nombre_fantasia ASC")
    lista_empresas = cursor.fetchall()

    cursor.close()
    db.close()
    return render_template('config_usuarios.html',
        user_nom=session.get('user_alias'),
        lista_usuarios=lista_usuarios,
        lista_sectores=lista_sectores,
        lista_empresas=lista_empresas)

```

```
122
123 @config_bp.route('/usuarios/guardar', methods=['POST'])
124 @requiere_ejecutivo
125 def guardar_usuario():
126     id_usuario = request.form.get('id_usuario')
127     alias = request.form.get('alias').strip()
128     nombre_completo = request.form.get('nombre_completo').strip()
129     pin_firma = request.form.get('pin_firma').strip()
130     estado = request.form.get('estado', 'ACTIVO')
131     version_actual = request.form.get('version', 1)
132
133     tipo_documento = request.form.get('tipo_documento', 'CI')
134     cedula_identidad = request.form.get('cedula_identidad', '').strip()
135     fecha_nacimiento = request.form.get('fecha_nacimiento') or None
136     whatsapp = request.form.get('whatsapp', '').strip()
137     celular = request.form.get('celular', '').strip()
138     email = request.form.get('email', '').strip()
139     fecha_ingreso = request.form.get('fecha_ingreso') or None
140     id_sector = request.form.get('id_sector') or None
141     id_empresa = request.form.get('id_empresa') or None
142     tipo_contrato = request.form.get('tipo_contrato', 'MENSUAL')
143
144     db = get_connection()
145     cursor = db.cursor()
146     try:
147         cursor.execute("SELECT id_usuario FROM utrau_usuarios WHERE alias = %s AND id_usuario != %s", (alias, id_usuario if id_usuario else 0))
148         if cursor.fetchone():
149             flash(f'El alias "{alias}" ya está en uso.', 'error')
150             return redirect(url_for('config.usuarios'))
151
152     archivos_paths = {}
153     for campo_file in ['foto', 'cedula_frente', 'cedula_atras', 'firma']:
154         if campo_file in request.files:
155             archivo = request.files[campo_file]
156             if archivo.filename != '':
157                 ruta = guardar_archivo(archivo, campo_file.upper(), alias)
158                 if campo_file == 'firma' and ruta:
159                     ruta_transparente = procesar_firma_transparente(ruta)
160                     archivos_paths['path_firma'] = ruta_transparente or ruta
```



```

161         else:
162             archivos_paths[f'path_{campo_file}'] = ruta
163
164     if id_usuario:
165         update_sql = """UPDATE utrau_usuarios SET
166             alias=%s, nombre_completo=%s, estado=%s,
167             tipo_documento=%s, cedula_identidad=%s, fecha_nacimiento=%s,
168             whatsapp=%s, celular=%s, email=%s, fecha_ingreso=%s,
169             id_sector=%s, id_empresa=%s, tipo_contrato=%s, version=version+1
170         """
171         params = [alias, nombre_completo, estado, tipo_documento, cedula_identidad, fecha_nacimiento, whatsapp, celular, email,
172 fecha_ingreso, id_sector, id_empresa, tipo_contrato]
173
174         if pin_firma:
175             update_sql += ", pin_firma=%s"
176             params.append(pin_firma)
177
178         for col, rut in archivos_paths.items():
179             update_sql += f", {col}=%s"
180             params.append(rut)
181
182         update_sql += " WHERE id_usuario=%s AND version=%s"
183         params.extend([id_usuario, version_actual])
184
185         cursor.execute(update_sql, tuple(params))
186
187         if cursor.rowcount == 0:
188             flash('Conflicto: El legajo fue modificado desde otra terminal.', 'error')
189         else:
190             flash(f'Legajo de {nombre_completo} actualizado con éxito.', 'success')
191             cursor.execute("INSERT INTO utrau_auditoria_historica (tabla_afectada, id_registro, accion, id_usuario) VALUES (%s, %s, %s, %s)",
192                 ('utrau_usuarios', id_usuario, 'UPDATE', session.get('user_id')))
193     else:
194         rol_base = 1
195         cols = ['alias', 'nombre_completo', 'pin_firma', 'rol', 'estado', 'tipo_documento', 'cedula_identidad', 'fecha_nacimiento',
196             'whatsapp', 'celular', 'email', 'fecha_ingreso', 'id_sector', 'id_empresa', 'tipo_contrato']
197         vals = [alias, nombre_completo, pin_firma, rol_base, estado, tipo_documento, cedula_identidad, fecha_nacimiento, whatsapp, celular,
198             email, fecha_ingreso, id_sector, id_empresa, tipo_contrato]

```

```

199         for col, rut in archivos_paths.items():
200             cols.append(col)
201             vals.append(rut)
202
203         placeholders = ', '.join(['%s'] * len(cols))
204         sql = f"INSERT INTO utrau_usuarios ({', '.join(cols)}) VALUES ({placeholders})"
205         cursor.execute(sql, tuple(vals))
206         nuevo_id = cursor.lastrowid
207
208         flash(f'Compañero {nombre_completo} registrado en el padrón.', 'success')
209         cursor.execute("INSERT INTO utrau_auditoria_historica (tabla_afectada, id_registro, accion, id_usuario) VALUES (%s, %s, %s, %s)",
210                       ('utrau_usuarios', nuevo_id, 'INSERT', session.get('user_id')))
211         db.commit()
212     except Exception as e:
213         db.rollback()
214         flash(f'Error en la base de datos: {str(e)}', 'error')
215     finally:
216         cursor.close()
217         db.close()
218     return redirect(url_for('config.usuarios'))
219
220 @config_bp.route('/sectores/ajax_add', methods=['POST'])
221 @requiere_ejecutivo
222 def ajax_add_sector():
223     codigo = request.form.get('codigo').strip()
224     nombre = request.form.get('nombre').strip()
225     db = get_connection()
226     cursor = db.cursor()
227     try:
228         cursor.execute("INSERT INTO utrau_sectores (codigo, nombre) VALUES (%s, %s)", (codigo, nombre))
229         db.commit()
230         return jsonify({'success': True, 'id_sector': cursor.lastrowid, 'codigo': codigo, 'nombre': nombre})
231     except Exception as e:
232         db.rollback()
233         return jsonify({'success': False, 'error': str(e)})
234     finally:
235         cursor.close()
236         db.close()
237

```

```

238 @config_bp.route('/empresas/ajax_add', methods=['POST'])
239 @requiere_ejecutivo
240 def ajax_add_empresa():
241     nombre = request.form.get('nombre').strip()
242     db = get_connection()
243     cursor = db.cursor()
244     try:
245         cursor.execute("INSERT INTO utrau_empresas (nombre_fantasia, nombre_fiscal) VALUES (%s, %s)", (nombre, nombre))
246         db.commit()
247         return jsonify({'success': True, 'id_empresa': cursor.lastrowid, 'nombre': nombre})
248     except Exception as e:
249         db.rollback()
250         return jsonify({'success': False, 'error': str(e)})
251     finally:
252         cursor.close()
253         db.close()
254
255 # =====
256 # MÓDULO: CRM DE EMPRESAS Y ORGANISMOS
257 # =====
258 @config_bp.route('/empresas')
259 @requiere_ejecutivo
260 def empresas():
261     db = get_connection()
262     cursor = db.cursor(dictionary=True)
263
264     cursor.execute("SELECT * FROM utrau_empresas ORDER BY nombre_fantasia ASC")
265     lista_empresas = cursor.fetchall()
266
267     cursor.execute("SELECT * FROM utrau_contactos ORDER BY nombre ASC")
268     contactos = cursor.fetchall()
269
270     for emp in lista_empresas:
271         emp['contactos'] = [c for c in contactos if c['id_empresa'] == emp['id_empresa']]
272
273     cursor.close()
274     db.close()
275     return render_template('config_empresas.html', user_nom=session.get('user_alias'), lista_empresas=lista_empresas)
276

```

```

277 @config_bp.route('/empresas/guardar', methods=['POST'])
278 @requiere_ejecutivo
279 def guardar_empresa_crm():
280     id_empresa = request.form.get('id_empresa')
281     nombre_fantasia = request.form.get('nombre_fantasia', '').strip()
282     nombre_fiscal = request.form.get('nombre_fiscal', '').strip()
283     rut = request.form.get('rut', '').strip()
284     direccion = request.form.get('direccion', '').strip()
285     localidad = request.form.get('localidad', '').strip()
286     departamento = request.form.get('departamento', '').strip()
287     mail_oficial = request.form.get('mail_oficial', '').strip()
288     cant_trabajadores = request.form.get('cant_trabajadores')
289     tipo = request.form.get('tipo', 'Empresa')
290     estado = request.form.get('estado', 'Activa')
291
292     if not cant_trabajadores or cant_trabajadores == '':
293         cant_trabajadores = 0
294
295     db = get_connection()
296     cursor = db.cursor()
297     try:
298         if id_empresa:
299             cursor.execute("""
300                 UPDATE utrau_empresas SET
301                     nombre_fantasia=%s, nombre_fiscal=%s, rut=%s, direccion=%s,
302                     localidad=%s, departamento=%s, mail_oficial=%s, cant_trabajadores=%s,
303                     tipo=%s, estado=%s
304                 WHERE id_empresa=%s
305             """, (nombre_fantasia, nombre_fiscal, rut, direccion, localidad, departamento, mail_oficial, cant_trabajadores, tipo, estado,
id_empresa))
306             flash('Registro institucional actualizado.', 'success')
307         else:
308             cursor.execute("""
309                 INSERT INTO utrau_empresas
310                     (nombre_fantasia, nombre_fiscal, rut, direccion, localidad, departamento, mail_oficial, cant_trabajadores, tipo, estado)
311                 VALUES (%s, %s, %s, %s, %s, %s, %s, %s, %s, %s)
312             """, (nombre_fantasia, nombre_fiscal, rut, direccion, localidad, departamento, mail_oficial, cant_trabajadores, tipo, estado))
313             flash('Nueva entidad registrada correctamente.', 'success')
314     db.commit()

```

```
315     except Exception as e:
316         db.rollback()
317         flash(f'Error al guardar en base de datos: {e}', 'error')
318     finally:
319         cursor.close()
320         db.close()
321     return redirect(url_for('config.empresas'))
322
323 @config_bp.route('/empresas/contacto/guardar', methods=['POST'])
324 @requiere_ejecutivo
325 def guardar_contacto():
326     id_empresa = request.form.get('id_empresa_contacto')
327     nombre = request.form.get('nombre_contacto').strip()
328     cargo = request.form.get('cargo_contacto').strip()
329     celular = request.form.get('celular_contacto').strip()
330     email = request.form.get('email_contacto').strip()
331
332     db = get_connection()
333     cursor = db.cursor()
334     try:
335         cursor.execute("""
336             INSERT INTO utrau_contactos (id_empresa, nombre, cargo, celular_whatsapp, email)
337             VALUES (%s, %s, %s, %s, %s)
338             """, (id_empresa, nombre, cargo, celular, email))
339         db.commit()
340         flash('Contacto agregado exitosamente al expediente.', 'success')
341     except Exception as e:
342         db.rollback()
343         flash(f'Error al guardar contacto: {e}', 'error')
344     finally:
345         cursor.close()
346         db.close()
347     return redirect(url_for('config.empresas'))
348
349 @config_bp.route('/asignaciones')
350 @requiere_ejecutivo
351 def asignaciones():
352     db = get_connection()
353     cursor = db.cursor(dictionary=True)
```

```

354 cursor.execute("""
355     SELECT a.*, u.nombre_completo, u.alias, u.path_foto, c.nombre_cargo, c.es_ejecutivo
356     FROM utrau_asignaciones a
357     JOIN utrau_usuarios u ON a.id_usuario = u.id_usuario
358     JOIN utrau_cargos c ON a.id_cargo = c.id_cargo
359     ORDER BY a.fecha_fin IS NOT NULL, c.orden ASC, a.fecha_inicio DESC
360 """)
361 lista_asignaciones = cursor.fetchall()
362
363 cursor.execute("SELECT id_usuario, alias, nombre_completo FROM utrau_usuarios WHERE rol != 4 AND estado = 'ACTIVO' ORDER BY nombre_completo
364 ASC")
365 lista_usuarios = cursor.fetchall()
366
367 cursor.execute("SELECT id_cargo, nombre_cargo, es_ejecutivo FROM utrau_cargos ORDER BY orden ASC")
368 lista_cargos = cursor.fetchall()
369
370 cursor.close()
371 db.close()
372 return render_template('config_asignaciones.html',
373                        user_nom=session.get('user_alias'),
374                        lista_asignaciones=lista_asignaciones,
375                        lista_usuarios=lista_usuarios,
376                        lista_cargos=lista_cargos)
377
378 @config_bp.route('/asignaciones/guardar', methods=['POST'])
379 @requiere_ejecutivo
380 def guardar_asignacion():
381     id_asignacion = request.form.get('id_asignacion')
382     id_usuario = request.form.get('id_usuario')
383     id_cargo = request.form.get('id_cargo')
384     fecha_inicio = request.form.get('fecha_inicio')
385     fecha_fin = request.form.get('fecha_fin') or None
386     version_actual = request.form.get('version', 1)
387
388     db = get_connection()
389     cursor = db.cursor()
390     try:
391         cursor.execute("SELECT es_ejecutivo FROM utrau_cargos WHERE id_cargo = %s", (id_cargo,))
392         cargo_info = cursor.fetchone()

```

```

392 es_ejecutivo = cargo_info[0] if cargo_info else 0
393
394 rol_a_asignar = 3 if es_ejecutivo else 2
395 if fecha_fin:
396     rol_a_asignar = 1
397
398 if id_asignacion:
399     cursor.execute("""
400         UPDATE utrau_asignaciones
401         SET id_usuario=%s, id_cargo=%s, fecha_inicio=%s, fecha_fin=%s, version=version+1
402         WHERE id_asignacion=%s AND version=%s
403     """, (id_usuario, id_cargo, fecha_inicio, fecha_fin, id_asignacion, version_actual))
404
405     if cursor.rowcount == 0:
406         flash('Conflicto: La asignación fue modificada por otro usuario.', 'error')
407     else:
408         flash('Asignación actualizada correctamente.', 'success')
409         cursor.execute("INSERT INTO utrau_auditoria_historica (tabla_afectada, id_registro, accion, id_usuario) VALUES (%s, %s, %s, %s)",
410             ('utrau_asignaciones', id_asignacion, 'UPDATE', session.get('user_id')))
411 else:
412     cursor.execute("""
413         INSERT INTO utrau_asignaciones (id_usuario, id_cargo, fecha_inicio, fecha_fin)
414         VALUES (%s, %s, %s, %s)
415     """, (id_usuario, id_cargo, fecha_inicio, fecha_fin))
416     nuevo_id = cursor.lastrowid
417     flash('Compañero asignado al cargo con éxito. Permisos de rol actualizados.', 'success')
418     cursor.execute("INSERT INTO utrau_auditoria_historica (tabla_afectada, id_registro, accion, id_usuario) VALUES (%s, %s, %s, %s)",
419         ('utrau_asignaciones', nuevo_id, 'INSERT', session.get('user_id')))
420
421     cursor.execute("UPDATE utrau_usuarios SET rol = %s WHERE id_usuario = %s AND rol != 4", (rol_a_asignar, id_usuario))
422     db.commit()
423 except Exception as e:
424     db.rollback()
425     flash(f'Error en la base de datos: {str(e)}', 'error')
426 finally:
427     cursor.close()
428     db.close()
429 return redirect(url_for('config.asignaciones'))

```

### test\_crear.py

```
1 from backend.co_models import Usuario
2 from backend.db_core import SessionLocal
3
4 session = SessionLocal()
5
6 try:
7     # Registramos a alguien de prueba
8     usuario = Usuario.registrar(session, "Gelo", "1234", 1)
9     print(f"✅ Usuario {usuario.nombre_completo} creado con ID: {usuario.id_usuario}")
10 except Exception as e:
11     session.rollback()
12     print(f"❌ Error: {e}")
13 finally:
14     session.close()
```

### test\_db.py

```
1 from backend.database import engine
2 from sqlalchemy import text
3
4 try:
5     with engine.connect() as connection:
6         result = connection.execute(text("SELECT DATABASE()"))
7         db_name = result.scalar()
8         print(f"✅ ¡Conexión exitosa! Estás conectado a la base de datos: {db_name}")
9 except Exception as e:
10     print(f"❌ Error al conectar: {e}")
```

### test\_models.py

```
1 from backend.co_models import Usuario, Conflicto
2 from backend.db_core import engine
3 from sqlalchemy.orm import sessionmaker
4
5 # Creamos una sesión de prueba
6 Session = sessionmaker(bind=engine)
7 session = Session()
8
```



```
9  try:
10      # Intentamos consultar la tabla de usuarios
11      usuarios = session.query(Usuario).all()
12      print(f"✅ ¡Modelos listos! Se detectaron {len(usuarios)} usuarios en la tabla.")
13  except Exception as e:
14      print(f"❌ Error al conectar el modelo con la base de datos: {e}")
15  finally:
16      session.close()
```