	<p style="text-align: center;">PROJECT REPORT</p> <p>Code: .-. .-. --- .-. .-. / ..--- --- --- --- .---</p> <p style="text-align: center;">--- .--- .---</p> <p>Version: 0003</p> <p>Author: *****</p> <p>Adviser: *****</p> <p>Entity: *****</p> <p>Country: *****</p> <p>City: ***</p> <p>date: *****</p>
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Contact

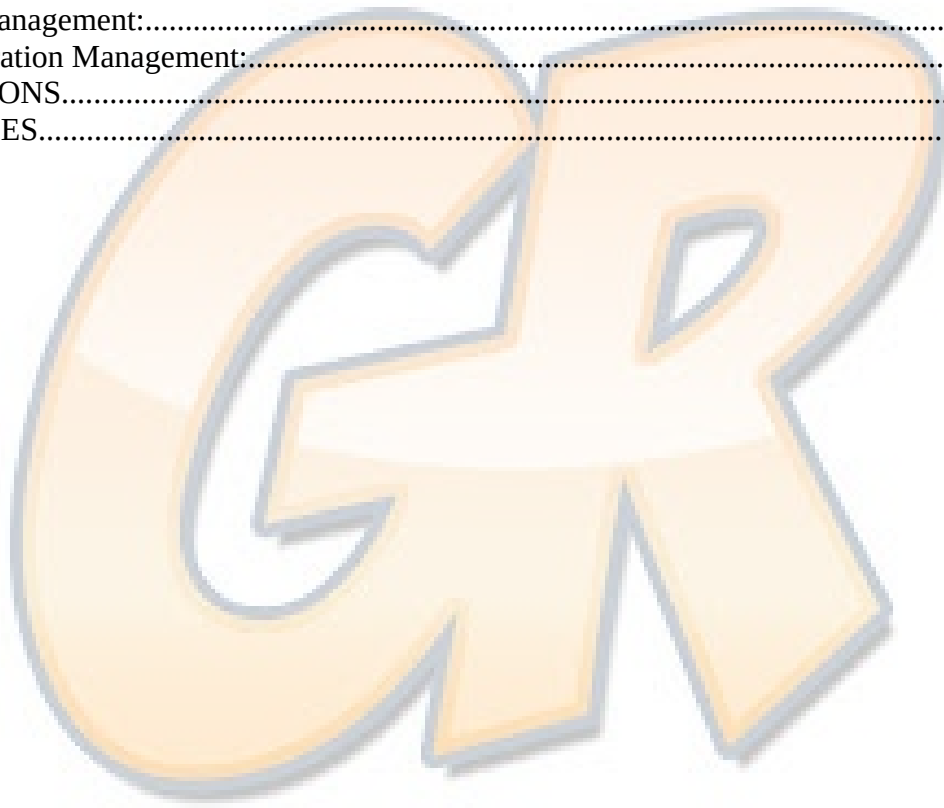
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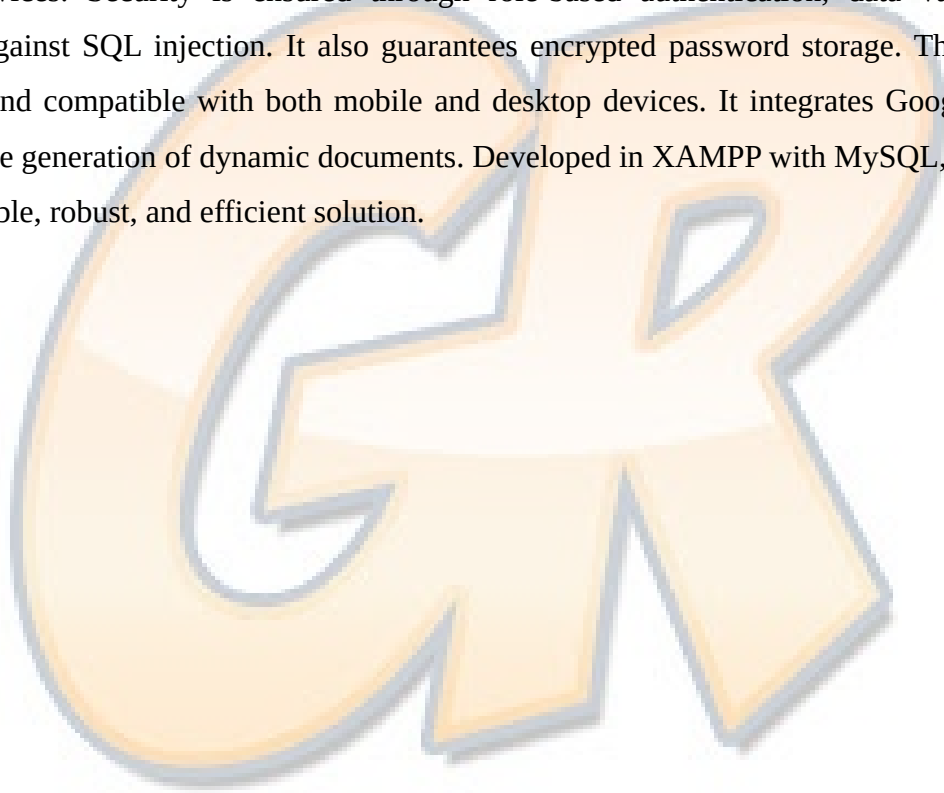
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SUMMARY

The Web System of the Estrella de Jerusalén Medical Center is a comprehensive platform developed using HTML5, CSS3, JavaScript, and PHP/MySQL, designed to optimize the medical and administrative management of the institution. It is organized into three main user roles: patients, doctors, and administrative staff. Patients can request appointments, review their medical history, and access services. Doctors register consultations, use ICD-10 coding, and generate PDF documents. Administrative staff manage schedules and internal resources.

The system includes digital medical records, real-time appointment management, and a catalog of medical services. Security is ensured through role-based authentication, data validation, and protection against SQL injection. It also guarantees encrypted password storage. The interface is responsive and compatible with both mobile and desktop devices. It integrates Google Maps and allows for the generation of dynamic documents. Developed in XAMPP with MySQL, it has proven to be a scalable, robust, and efficient solution.



INTRODUCTION

This report presents the development of a web system for the Estrella de Jerusalén Medical Center, created to optimize the management of medical and administrative services. The platform aims to improve internal organization, facilitate access to medical care, and offer an efficient digital tool. It was developed using technologies such as HTML, CSS, JavaScript, PHP, and MySQL, with XAMPP as the local development environment. The system is designed to benefit both staff and patients. It centralizes processes, automates tasks, and enhances institutional efficiency. Additionally, it provides a clear and intuitive user experience.



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JUSTIFICATION

The implementation of the web system at the Estrella de Jerusalén Medical Center is justified by the need to modernize processes that, in their traditional paper-based form, were inefficient and prone to errors. This negatively affected patient care and created a high administrative burden.

The new digital platform centralizes the management of appointments, medical records, medical services, and patient communication, using web technologies such as HTML, CSS, JavaScript, PHP, and MySQL. This solution not only improves operational efficiency and user experience but also ensures the security of clinical information through authentication and data validation.



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OBJECTIVES

General Objective

To develop and implement a comprehensive web system for the Estrella de Jerusalén Medical Center that optimizes the management of its medical and administrative processes through the use of modern web technologies, with the goal of improving operational efficiency and the quality of patient care.

Specific Objectives

1. Design and implement a responsive and accessible user interface (frontend) using HTML5, CSS3, and JavaScript that ensures an intuitive experience for patients, doctors, and administrative staff.
2. Develop robust business logic and backend functionality with PHP, establishing a secure and efficient connection to a MySQL database for reliable information management.
3. Implement a role-based authentication and authorization system that enables differentiated and secure access to system features based on the user profile (patient, doctor, administrator).
4. Create specific modules for the centralized management of medical appointments, electronic medical records, and the service catalog, streamlining the clinic's core processes.

THEMATIC DEVELOPMENT

General Details of the System

The clinical registration and management system for the Estrella de Jerusalén Medical Center focuses on optimizing the administration of patients, medical appointments, and clinical records, using web technologies to enhance efficiency in user care. The system is structured into three main areas: patients, medical services, and users. Each area is supported by relational tables in a MySQL database, managed through XAMPP. The main functionalities include:

- **Patient management** (registration, consultation, updating, and deletion of personal and clinical information).
- **Medical appointment management** (scheduling, cancellation, rescheduling, and real-time availability validation).
- **Medical service management** (catalog of specialties, service requests, and assignment of professionals).
- **Responsive web interface** (accessible and intuitive, developed with HTML5, CSS3, and JavaScript, to facilitate user interaction according to their roles).
- **Authentication and security** (role- and permission-based system, data validation, and protection against vulnerabilities).

Explanation of Each Database Table

Table: Clients

The "Clients" table serves as the contact directory of the clinic. It stores the personal information of each individual who interacts with the institution, such as name, national ID (DNI), phone number, and email. It also includes demographic data like date of birth, gender, and address. This record allows for an organized history of patients and contacts, facilitating communication, appointment scheduling, and service tracking. It forms the foundation for the clinic's relational and administrative management.

#	Nombre	Tipo	Cotejamiento	Atributos	Nulo	Predeterminado	Comentarios	Extra
1	id 🔑	int(11)			No	Ninguna		AUTO_INCREMENT
2	nombre	varchar(100)	utf8mb4_general_ci		No	Ninguna		
3	email	varchar(100)	utf8mb4_general_ci		No	Ninguna		
4	telefono	varchar(15)	utf8mb4_general_ci		No	Ninguna		
5	dni	varchar(8)	utf8mb4_general_ci		No	Ninguna		
6	fecha_nacimiento	date			No	Ninguna		
7	genero	varchar(20)	utf8mb4_general_ci		No	Ninguna		
8	direccion	text	utf8mb4_general_ci		Sí	NULL		
9	estado_civil	varchar(20)	utf8mb4_general_ci		Sí	NULL		
10	fecha_registro	timestamp			No	current_timestamp()		

Table: Consultations

The "Consultations" table is the core of the medical system, where each patient visit to a doctor is recorded. It logs which doctor attended the consultation, which patient was seen, the appointment date, and the reason for the visit. It also documents important details such as symptoms, patient history, observations made during the consultation, and whether rest, follow-up, or additional tests are required. Additionally, the next appointment is scheduled if necessary, serving as the immediate clinical record for each consultation.

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#	Nombre	Tipo	Cotejamiento	Atributos	Nulo	Predeterminado	Comentarios	Extra
1	id 🔑	int(11)			No	Ninguna		AUTO_INCREMENT
2	medico_id 🔑	int(11)			No	Ninguna		
3	paciente_id 🔑	int(11)			No	Ninguna		
4	fecha_consulta	date			No	Ninguna		
5	motivo_consulta	text	utf8mb4_general_ci		No	Ninguna		
6	enfermedad_actual	text	utf8mb4_general_ci		No	Ninguna		
7	antecedentes	text	utf8mb4_general_ci		Sí	NULL		
8	observaciones	text	utf8mb4_general_ci		Sí	NULL		
9	reposo_medico	tinyint(1)			Sí	0		
10	control_medico	tinyint(1)			Sí	0		
11	exámenes_auxiliares	tinyint(1)			Sí	0		
12	interconsulta	tinyint(1)			Sí	0		
13	proxima_cita	date			Sí	NULL		
14	fecha_registro	timestamp			No	current_timestamp()		

Table: Contact

The "Contact" table functions as the clinic's message inbox. It stores all inquiries, requests, or comments submitted by individuals through the website or contact forms. It records the sender's name, email, phone number, subject, and full message, along with the date and time it was sent. This allows clinic staff to review, respond to, and follow up on public concerns in an organized and timely manner.

#	Nombre	Tipo	Cotejamiento	Atributos	Nulo	Predeterminado	Comentarios	Extra
1	id 🔑	int(11)			No	Ninguna		AUTO_INCREMENT
2	nombre_completo	varchar(100)	utf8mb4_general_ci		No	Ninguna		
3	correo_electronico	varchar(100)	utf8mb4_general_ci		No	Ninguna		
4	telefono	varchar(20)	utf8mb4_general_ci		No	Ninguna		
5	asunto	varchar(100)	utf8mb4_general_ci		No	Ninguna		
6	mensaje	text	utf8mb4_general_ci		No	Ninguna		
7	fecha_envio	timestamp			No	current_timestamp()		

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Table: Diagnoses

The "Diagnoses" table is where the doctor records the outcome of their evaluation of the patient's health condition after each consultation. It stores a descriptive text explaining the patient's condition based on symptoms and tests performed during the consultation. Each diagnosis is linked to a specific consultation, allowing for an accurate history of each identified health issue and its progression over time.

#	Nombre	Tipo	Cotejamiento	Atributos	Nulo	Predeterminado	Comentarios	Extra
1	id 🔑	int(11)			No	Ninguna		AUTO_INCREMENT
2	consulta_id 🔑	int(11)			No	Ninguna		
3	texto_diagnostico	text	utf8mb4_general_ci		No	Ninguna		
4	fecha_registro	timestamp			No	current_timestamp()		

Table: Specialties

The "Specialties" table serves as the catalog of medical services offered by the clinic. It defines the different types of care available, such as general consultation, ultrasound, or pediatrics, along with their price and the approximate duration of each service. Each specialty has a clear name and a unique identifier that simplifies the management of appointments and services. This table helps organize and clearly present care options to patients.

#	Nombre	Tipo	Cotejamiento	Atributos	Nulo	Predeterminado	Comentarios	Extra
1	id 🔑	int(10)		UNSIGNED	No	Ninguna		AUTO_INCREMENT
2	slug 🔑	varchar(50)	utf8mb4_general_ci		No	Ninguna		
3	nombre	varchar(100)	utf8mb4_general_ci		No	Ninguna		
4	especialidad	varchar(100)	utf8mb4_general_ci		No	Ninguna		
5	precio	decimal(8,2)			No	Ninguna		
6	duracion	varchar(20)	utf8mb4_general_ci		No	Ninguna		

Table: PhysicalExams

The "PhysicalExams" table records vital signs and clinical observations collected during the medical consultation. It includes values such as blood pressure, pulse, temperature, and patient weight, along with a general description of their physical condition. This information is directly linked to a specific consultation, serving as objective evidence of the patient's health status at that time.

#	Nombre	Tipo	Cotejamiento	Atributos	Nulo	Predeterminado	Comentarios	Extra
1	id 🔑	int(11)			No	Ninguna		AUTO_INCREMENT
2	consulta_id 🔑	int(11)			No	Ninguna		
3	presion_arterial	varchar(20)	utf8mb4_general_ci		Sí	NULL		
4	frecuencia_cardiaca	int(11)			Sí	NULL		
5	temperatura	decimal(4,1)			Sí	NULL		
6	peso	decimal(5,2)			Sí	NULL		
7	descripcion_examen_fisico	text	utf8mb4_general_ci		Sí	NULL		
8	fecha_registro	timestamp			No	current_timestamp()		

Table: Doctors

The "Doctors" table is the directory of all healthcare professionals working at the clinic. It stores their name, medical specialty, and professional license number, which is unique for each doctor. This table allows identification of who attended each consultation and ensures that only registered and valid doctors can provide services. It is essential for organizing schedules, assigning appointments, and guaranteeing traceability of medical care.

#	Nombre	Tipo	Cotejamiento	Atributos	Nulo	Predeterminado	Comentarios	Extra
1	id 🔑	int(11)			No	Ninguna		AUTO_INCREMENT
2	nombre	varchar(255)	utf8mb4_general_ci		No	Ninguna		
3	especialidad	varchar(100)	utf8mb4_general_ci		No	Ninguna		
4	cmp 🔑	varchar(50)	utf8mb4_general_ci		No	Ninguna		
5	fecha_registro	timestamp			No	current_timestamp()		

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Table: Patients

The "Patients" table stores essential medical information of the individuals treated at the clinic. It records data such as name, national ID (DNI), age, gender, phone number, and type of health insurance. This table focuses on aspects relevant to clinical care, allowing medical staff to quickly access key information during consultations. Each patient is uniquely identified to maintain a consistent and personalized medical history.

#	Nombre	Tipo	Cotejamiento	Atributos	Nulo	Predeterminado	Comentarios	Extra
1	id 🔑	int(11)			No	Ninguna		AUTO_INCREMENT
2	nombre	varchar(255)	utf8mb4_general_ci		No	Ninguna		
3	dni 🔑	varchar(8)	utf8mb4_general_ci		No	Ninguna		
4	edad	int(11)			No	Ninguna		
5	sexo	varchar(10)	utf8mb4_general_ci		No	Ninguna		
6	telefono	varchar(20)	utf8mb4_general_ci		Sí	NULL		
7	seguro	varchar(50)	utf8mb4_general_ci		Sí	NULL		
8	fecha_registro	timestamp			No	current_timestamp()		

Table: Service_Requests

The "Service Requests" table serves as the record of medical appointment bookings or service orders made by patients. It logs the requested services (such as consultation or ultrasound), the preferred schedule, and contact phone number. Each request is saved with the date and time it was made, allowing the clinic to organize schedules, confirm appointments, and follow up on patients' needs in an orderly manner.

#	Nombre	Tipo	Cotejamiento	Atributos	Nulo	Predeterminado	Comentarios	Extra
1	id 🔑	int(10)		UNSIGNED	No	Ninguna		AUTO_INCREMENT
2	servicios	varchar(255)	utf8mb4_general_ci		No	Ninguna	lista de slugs separados por comas	
3	horario	varchar(50)	utf8mb4_general_ci		No	Ninguna		
4	telefono	char(9)	utf8mb4_general_ci		No	Ninguna		
5	created_at	timestamp			No	current_timestamp()		

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Table: Treatments

The "Treatments" table stores the medical instructions that the doctor recommends to the patient after each consultation. It records prescriptions, therapies, medications, or procedures that should be followed to improve the patient's health. Each treatment is linked to a specific consultation, ensuring that the medical history is well documented and easy to reference in the future.

#	Nombre	Tipo	Cotejamiento	Atributos	Nulo	Predeterminado	Comentarios	Extra
1	id 🔑	int(11)			No	Ninguna		AUTO_INCREMENT
2	consulta_id 🔑	int(11)			No	Ninguna		
3	texto_tratamiento	text	utf8mb4_general_ci		No	Ninguna		
4	fecha_registro	timestamp			No	current_timestamp()		

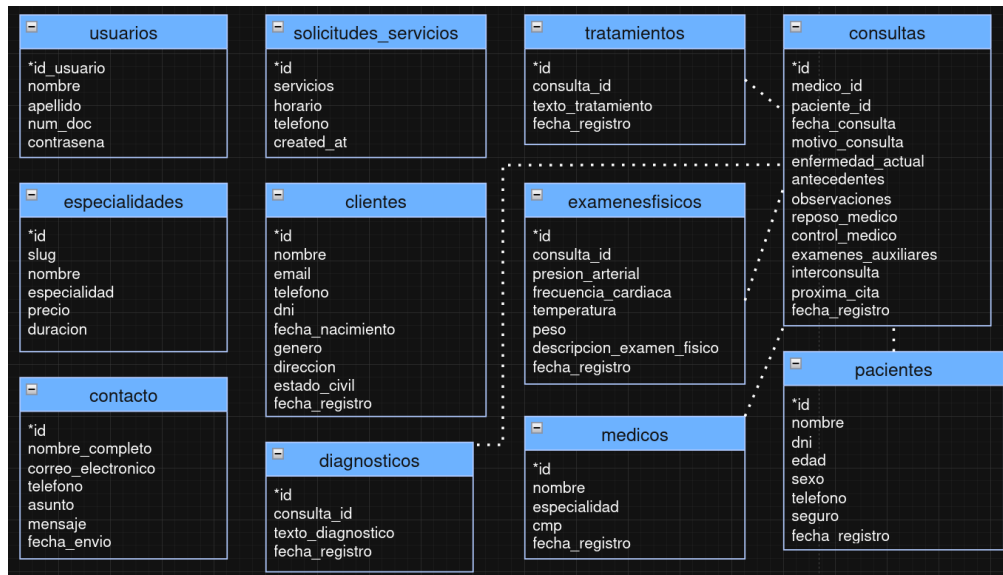
Table: Users

The "Users" table stores the data of individuals who can access the clinic's system, such as doctors or administrative staff. It holds basic information like first name, last name, document number, and password to enable secure access. However, this table has serious issues: passwords are stored without protection, and there are duplicate records, compromising the system's security and reliability.

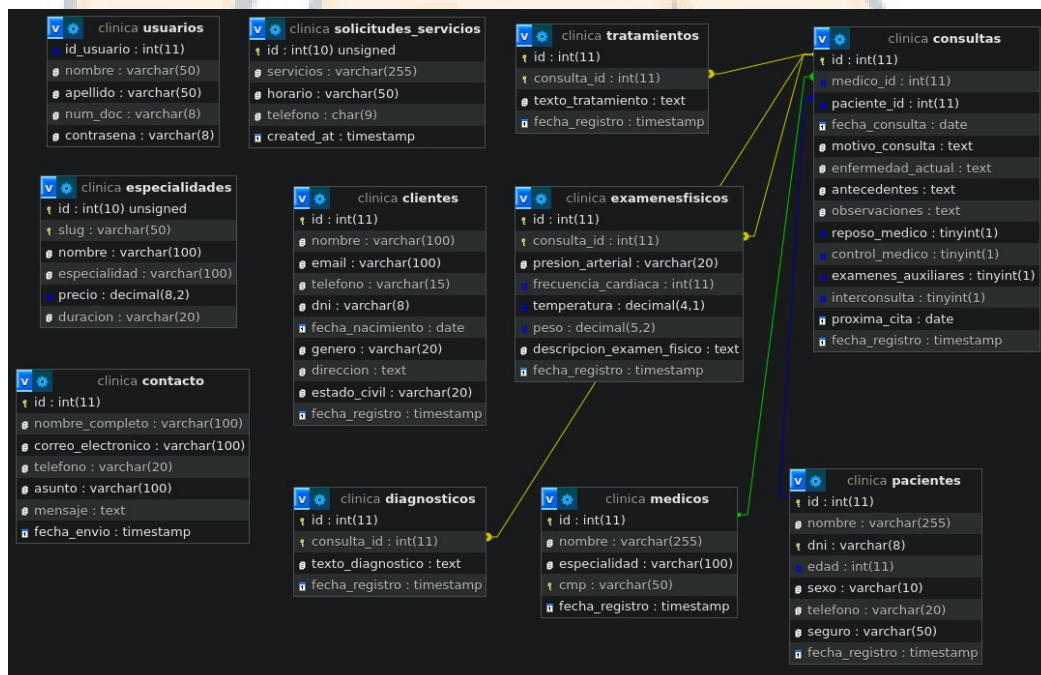
#	Nombre	Tipo	Cotejamiento	Atributos	Nulo	Predeterminado	Comentarios
1	id_usuario	int(11)			No	Ninguna	
2	nombre	varchar(50)	utf8mb4_general_ci		No	Ninguna	
3	apellido	varchar(50)	utf8mb4_general_ci		No	Ninguna	
4	num_doc	varchar(8)	utf8mb4_general_ci		No	Ninguna	
5	contrasena	varchar(8)	utf8mb4_general_ci		No	Ninguna	

Database Diagram

The following is the logical diagram of the Estrella de Jerusalén Clinic system, designed with the program 'draw.io':



Below is the physical diagram of the database, obtained from the MySQL database management system:



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System Interfaces

When starting the system, a login interface is displayed where the user must enter their document number along with their password. Once this is done, they click the login button, which will redirect them to different modules depending on whether they are a patient, doctor, or administrator.



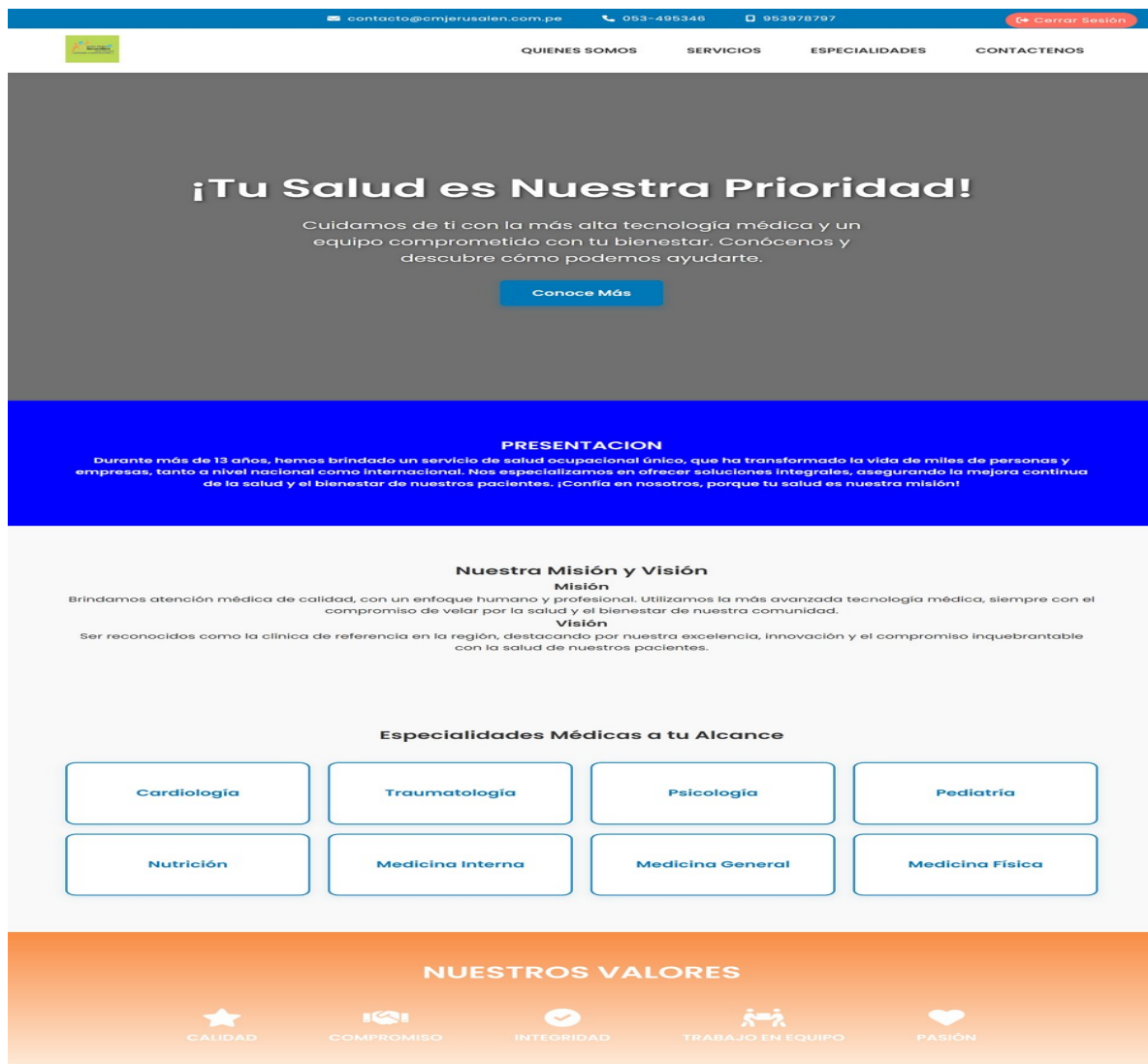
The image shows a login interface for 'Centro Médico Jerusalem'. At the top, there is a logo with three stylized figures and a star, followed by the text 'Centro Médico Jerusalem'. Below the logo, the word 'Bienvenido' (Welcome) is displayed in a large, white, sans-serif font. Underneath, there are two input fields: the first is labeled 'Número de documento' (Document number) and the second is labeled 'Contraseña' (Password). Both fields have placeholder text 'Ingresa tu número de documento' and 'Ingresa tu contraseña' respectively. To the right of the password field is an eye icon for toggling visibility. Below the input fields is a large blue button with the text 'Ingresar' (Login) in white. At the bottom, there is a link that says '¿Olvidaste tu contraseña?' (Forgot your password?). The entire interface is set against a dark background with a blurred image of a person's arm in the background.

If the credentials are incorrect, a "data not found" message will be displayed. Otherwise, the system will redirect the user to their respective module based on their role.

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1) Patient Management:

First, in the patient management section, there will be a user-friendly interface displaying information about the clinic, such as its mission and vision. Additionally, it will feature different sections at the bottom to inform the patient about the medical specialties available to them.



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Next, there will be a functional module where the patient can choose the desired service through a search bar, allowing them to type and also view in a table the different services offered by the medical center. At the bottom, the patient can request the selected service by choosing a preferred appointment time, entering their phone number, and clicking the "Request Service" button.



QUIENES SOMOS

SERVICIOS

ESPECIALIDADES

CONTACTENOS

contacto@cmjerusalen.com.pe

053-495346

953978797

Cerrar Sesión

Nuestros Servicios Médicos

¿Cómo solicitar un servicio?

1. Seleccione el servicio requerido
2. Complete el formulario de contacto
3. Espere nuestra confirmación vía telefónica

Buscar servicio o especialidad...

Haz clic en cualquier servicio de la tabla para seleccionarlo automáticamente

Servicio	Especialidad	Precio	Duración
Consulta General	Medicina Interna	S/ 80.00	30 min
Ecografía	Radiología	S/ 150.00	45 min
Control Pediátrico	Pediatría	S/ 90.00	40 min
Electrocardiograma	Cardiología	S/ 120.00	35 min
Análisis Clínicos	Laboratorio	S/ 60.00	20 min

Solicitar Servicio

Seleccione servicios:

☐ Consulta General
 ☐ Ecografía
 ☐ Control Pediátrico
 ☐ Electrocardiograma
 ☐ Análisis Clínicos

Horario preferido:

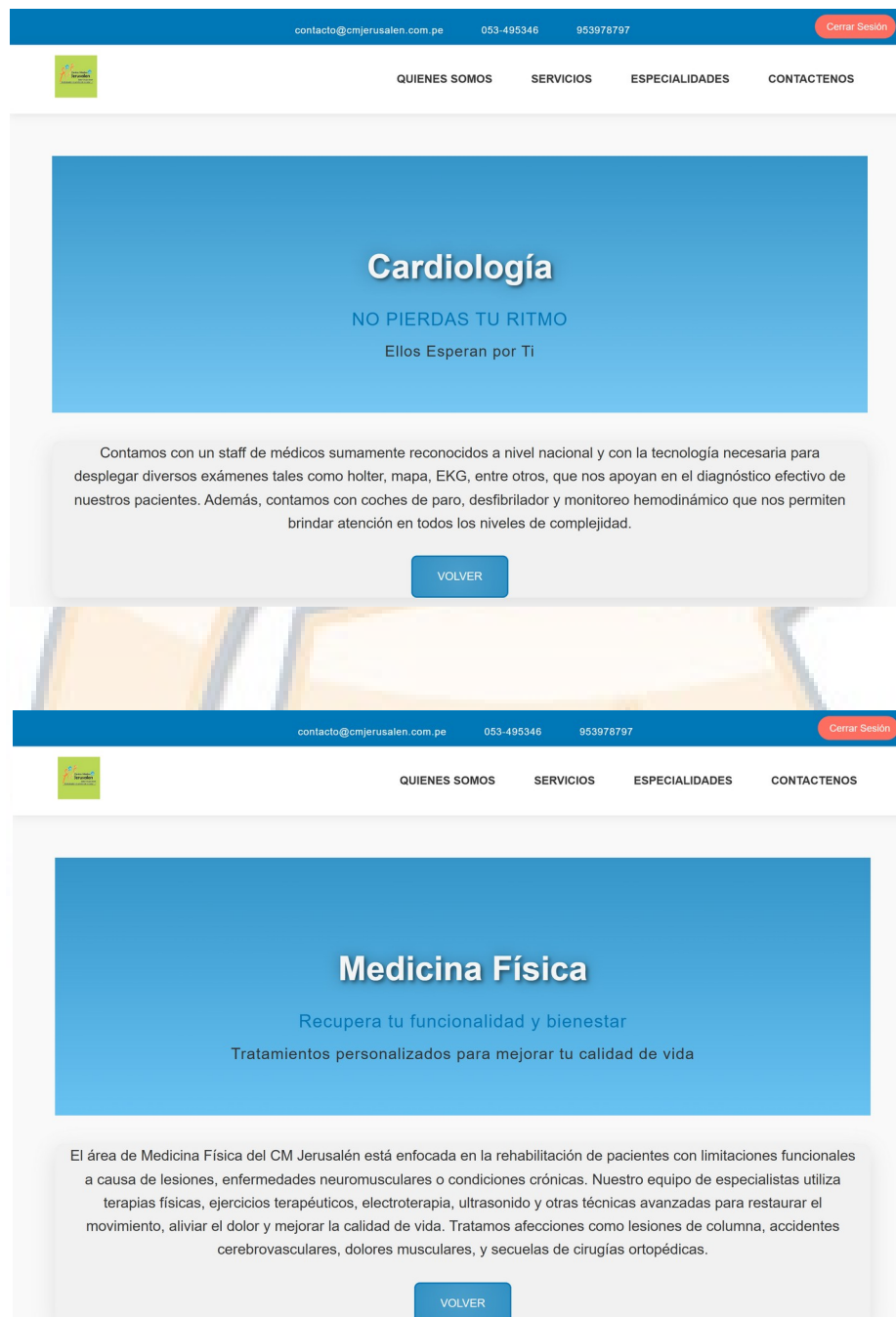
Seleccione...

Teléfono:

Enviar Solicitud

Limpiar

The system will also include a specialties section, where the user will find essential information about the clinic. It will feature a total of 7 sections, each providing different information about the services offered. These sections will include: Cardiology, Traumatology, Psychology, Pediatrics, Nutrition, Internal Medicine, General Medicine, and Physical Medicine.



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Next, we move on to the **Contact Us** module, which includes a form for entering the necessary information to send a message. The user can also select the subject of the inquiry. Finally, the form includes a field for the message to be sent. Additionally, the section provides essential contact information for the clinic. To conclude, the user will have access to a Google Maps map to help them locate the clinic.

The screenshot displays the 'Contáctenos' (Contact Us) page of the Centro Médico Estrella de Jerusalén website. The page is structured as follows:

- Header:** Includes the website's email (contacto@cmjerusalen.com.pe), phone numbers (053-495346 and 953978797), and a 'Cerrar Sesión' (Log Out) button.
- Navigation:** Links for 'QUIENES SOMOS', 'SERVICIOS', 'ESPECIALIDADES', and 'CONTACTENOS'.
- Section: Contáctenos**
 - Formulario de Contacto:** A form with fields for 'Nombre Completo', 'Correo Electrónico', 'Teléfono/Celular', a dropdown for 'Asunto' (Subject), and a 'Mensaje' (Message) text area. A 'Enviar Mensaje' button is at the bottom.
 - Información de Contacto:**
 - Dirección:** Urbanización Villa Marina Mz. 3 Lt. 5, ILO Moquegua - Perú
 - Teléfonos:** Recepción: (053) 495346; Emergencias: 953 978 797
 - Horario de Atención:** Lunes a Viernes: 8:00 am - 8:00 pm; Sábados: 9:00 am - 2:00 pm
 - Correos:** Informes: contacto@cmjerusalen.com.pe; Administración: admin@cmjerusalen.com.pe
- Nuestra Ubicación:** A Google Map showing the clinic's location in Moquegua, Peru, with various landmarks and streets labeled.
- Footer:**
 - Enlaces Rápidos:** Inicio, Servicios, Especialidades
 - Contáctenos:** Urbanización Villa Marina Mz. 3 Lt. 5, ILO Moquegua - Perú; (053) 495346
 - Logo and Text:** 'Brindando atención médica de calidad desde 1995.'
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2) Doctor Management:

The doctor will have their own management interface, where a form will be used to record both the patient's and the doctor's information. This form will include details such as health problems, medical exams, diagnoses, medical instructions, follow-up, and more.

Formulario de Consulta Médica
Sistema de registro de consultas - Centro Médico Jerusalén

Información del Médico

Nombre del Médico: Especialidad:

Número CMP: Fecha de Consulta:

Información del Paciente

Nombre Completo del Paciente: DNI:

Edad: Sexo:

Teléfono: Tipo de Seguro:

Anamnesis

Motivo de Consulta:

Enfermedad Actual:

Antecedentes Patológicos:

Examen Físico

Presión Arterial (mmHg): Frecuencia Cardíaca (lpm):

Temperatura (°C): Peso (kg):

Descripción del Examen Físico:

Diagnóstico y Tratamiento

Diagnóstico:

Tratamiento Prescrito:

Observaciones Adicionales:

Indicaciones y Seguimiento

☐ Reposo médico ☐ Control médico ☐ Exámenes auxiliares ☐ Interconsulta

Próxima Cita:


Guardar Consulta

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3) Administration Management:

The administrator will have an interface to register new clients by entering their information, such as name, email, phone number, national ID (DNI), address, gender, among others, and finally a button to add the client.

contacto@cmjerusalen.com.pe053-495346953978797Cerrar Sesión

AGREGAR CLIENTES

Gestión de Clientes

Administra la información de tus pacientes de manera eficiente

Registro de Nuevo Cliente

Nombre Completo:

Email:

Teléfono:

DNI:

Fecha de Nacimiento:

Género:

Masculino

Dirección:

Estado Civil:

Soltero

Guardar Cliente

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CONCLUSIONS

The implementation of this comprehensive web system represents a significant step forward in modernizing the processes of the Estrella de Jerusalén Medical Center, demonstrating that the strategic integration of web technologies such as HTML, CSS, JavaScript, PHP, and MySQL can effectively transform both medical and administrative management. The platform not only meets the objectives of optimizing operational efficiency and improving the user experience for patients, doctors, and administrative staff, but also establishes a solid, scalable, and secure foundation for the institution's future growth, ensuring the confidential and organized handling of health information.



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