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Engineering Rank Band (151-200)  
Pharmacy Rank - 77  
Innovation Rank Band (11-50)



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## Mini Project (ID102B)

### Even semester(2024-2025)

Monika Tyagi (202410116100123)

Mukul Dhiman(202410116100126)

Minakshi Tomar(202410116100119)


# Healthcare Service Provider System

Project Supervisor:

Ms. Shruti Aggrawal

Assistant Professor

# Introduction


- This system aims to streamline healthcare services, improve patient care, and enhance communication between doctors, patients.
  - Built with a **user-centric approach**, the platform integrates features such as patient registration, appointment scheduling, diagnostics, and treatment planning into a single, unified system.
  - Store and organize patient information, including medical history, diagnoses, and treatment plans, in one secure place.
  - **Schedule Appointments:** Allow patients to book, reschedule, or cancel appointments easily, while doctors can view and manage their schedules.
- 

# Existing Systems and Challenge

## Existing Systems


- Existing Systems Healthcare management systems have evolved significantly over the past decade. Some of the widely used systems include:
- Electronic Health Records (EHRs): Systems like Epic and Cerner are used to store and manage patient data digitally.
- Telemedicine Platforms: Applications like Teladoc and Amwell enable remote consultations between doctors and patients.

## Challenges in Current Systems Despite their widespread adoption, existing systems face several challenges:

- Fragmented Data: Patient data is often scattered across multiple systems, making it difficult to access a complete medical history.
  - Lack of Interoperability: Systems from different providers often cannot communicate with each other, leading to inefficiencies.
  - Manual Processes: Many tasks, such as appointment scheduling and record-keeping, are still done manually, increasing the risk of errors.
  - User Experience: Many systems have complex interfaces that are not user-friendly for doctors or patients.
  - Security Concerns: Data breaches and unauthorized access to patient records remain significant issues.
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# Proposed Solution

**we propose a Healthcare Service Provider . This system will:**

- **Integrate All Services:** Provide a unified platform for patient management, appointments, diagnostics, and treatment plans.
  - **Enable Real-Time Access:** Use cloud-based technologies to ensure real-time data access and updates.
  - **Focus on User Experience:** Design intuitive interfaces for doctors, patients, and administrators.
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# Objective of the Project

- 1 Develop a healthcare services provider system that provides a unified platform for patient care.
- 2 Enable real-time data access and analytics to empower healthcare providers with timely insights.



# Hardware Requirements

## Development Environment

Processor: Minimum Intel i5 or equivalent.

RAM: At least 8GB (16GB recommended for smoother multitasking).

Storage: Minimum 250GB SSD for faster performance.

## Server Requirements

Processor: Minimum 2 CPU cores.

RAM: 4GB (8GB or more for handling higher traffic).

## Client Requirements

Devices with internet access (smartphones, tablets, PCs) for accessing the healthcare services platform.

# Software Requirements

## Frontend

HTML, CSS, JavaScript for building interactive and responsive user interfaces.

## Backend

Java servlet.

## Database

MySQL for storing and managing patient data, appointments, and other system information.





# Patient Module

1

## Registration

Patients can register for an account, providing basic information and creating a secure profile.

2

## Login

Patients can securely log in to their accounts to access their healthcare information and services.

3

## Profile Management

Patients can manage their personal information, including contact details, medical history, and insurance information.

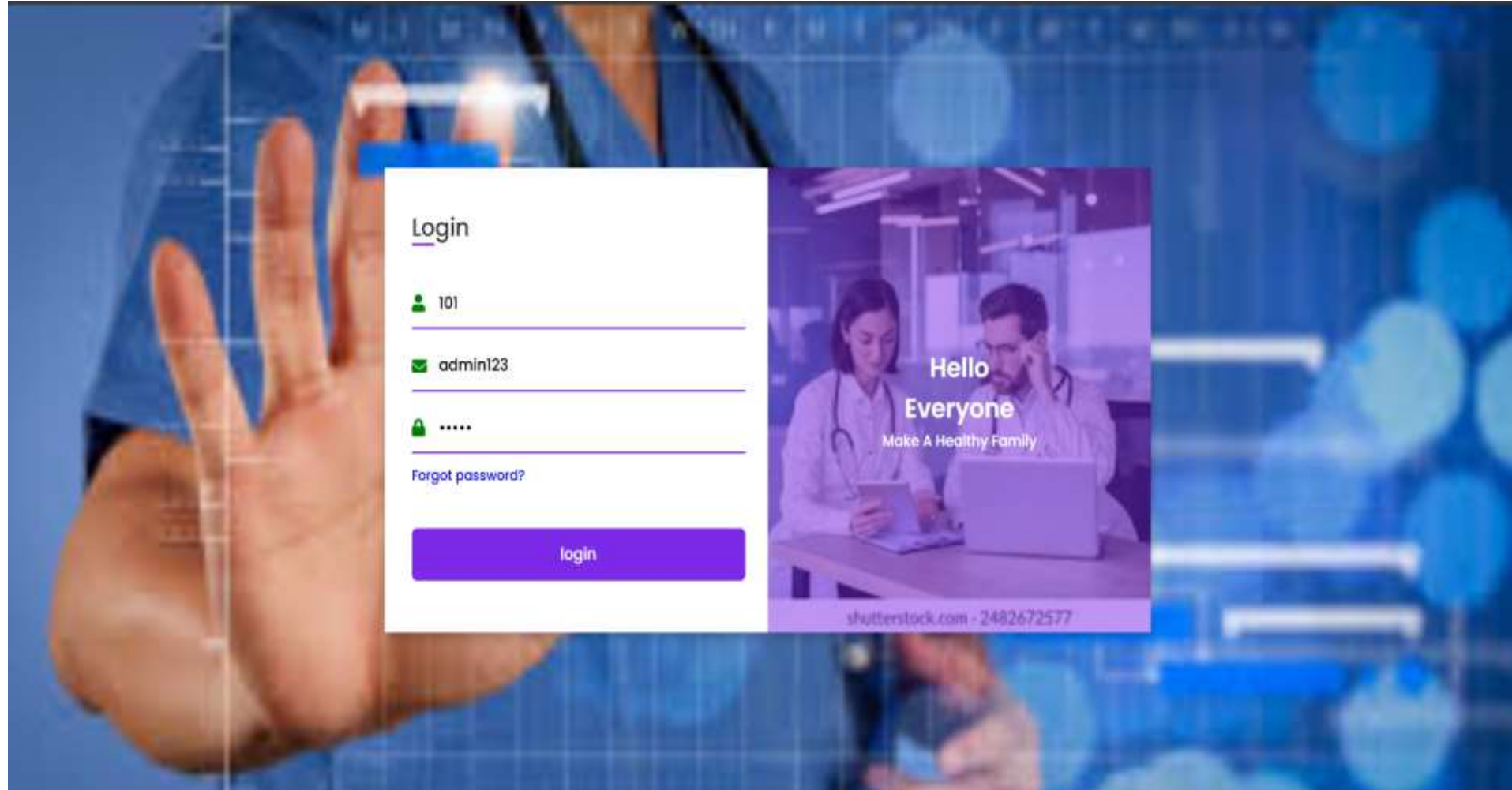
4

## Appointment Booking

Patients can easily schedule appointments with healthcare providers, view available time slots, and manage their appointment history.



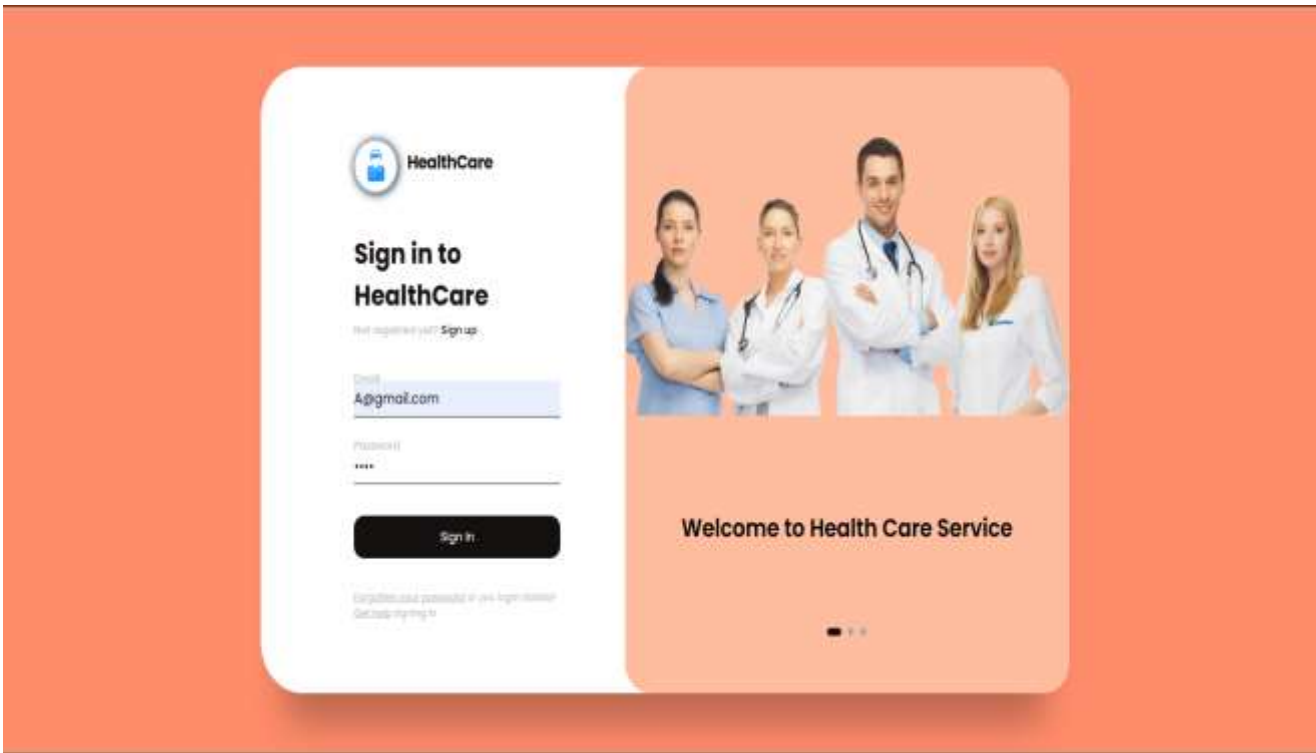
# Admin Login Page



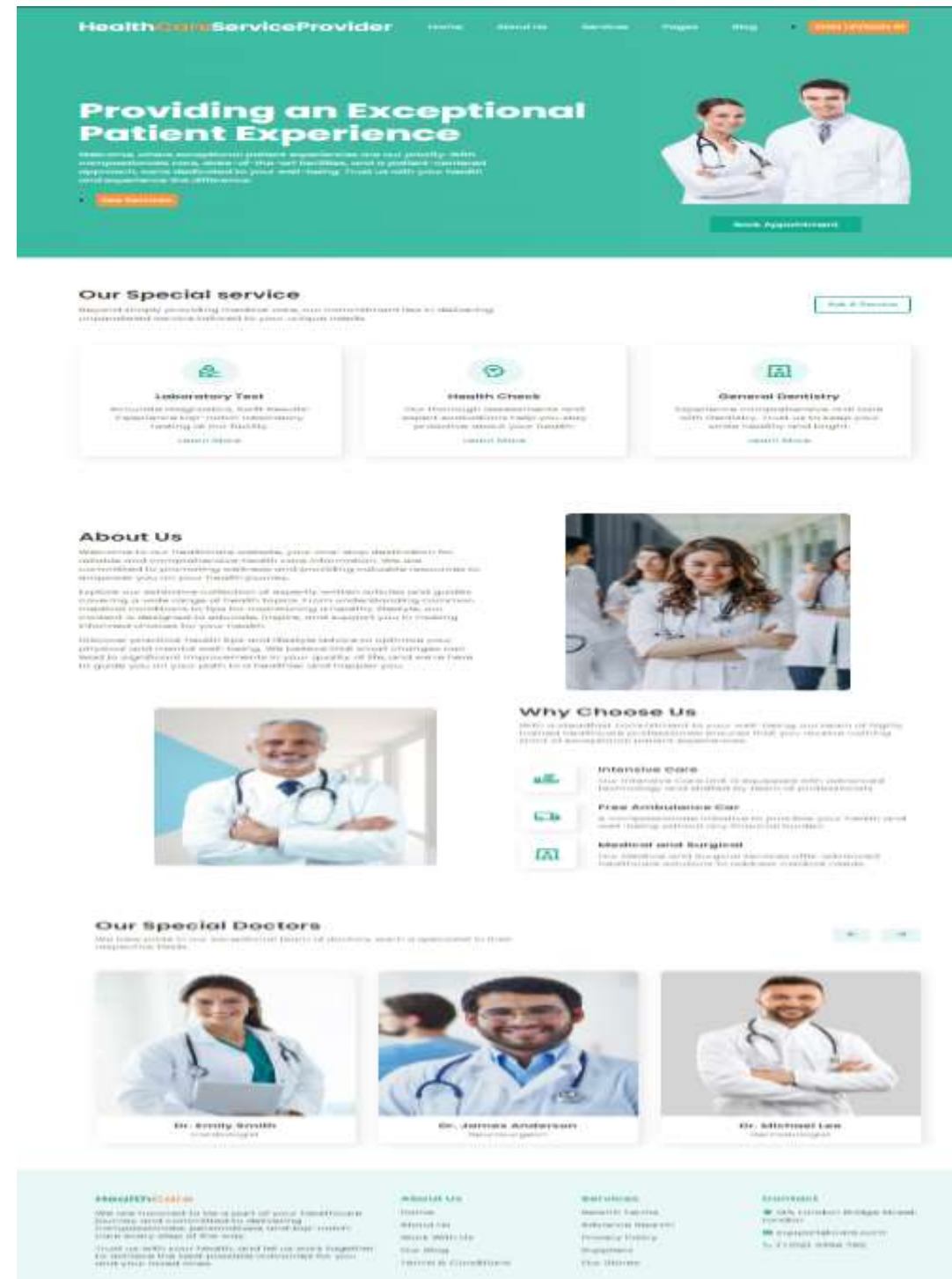
# Customer Sign Up Page



# Customer Sign In Page



# Home Page:-



### Our Special service

Specialist directly providing medical care, our commitment lies in delivering exceptional medical services to your unique needs.

[Book Appointment](#)

#### Laboratory Test

Advanced diagnostic testing, such as blood, urine, and stool samples, to identify underlying health issues.

[Book Appointment](#)

#### Health Check

Our thorough examinations and expert assessments help you stay proactive about your health.

[Book Appointment](#)

#### General Dentistry

Comprehensive dental services, including routine check-ups, cleanings, and restorative treatments.

[Book Appointment](#)

### About Us

At HealthCareServiceProvider, our commitment is to provide exceptional patient care and ensure your health and well-being are our top priority. We are dedicated to providing personalized care and ensuring your health is our top priority.

Experience the difference of our expertly trained staff and state-of-the-art facilities, all combined in your well-being. Trust us with your health and experience the difference.

Our commitment is to provide exceptional patient care and ensure your health and well-being are our top priority. We are dedicated to providing personalized care and ensuring your health is our top priority.



### Why Choose Us

With a commitment to excellence in your well-being and a focus on providing exceptional patient care, we ensure that your health is our top priority.



#### Intensive Care

Our Intensive Care Unit is equipped with advanced technology and staffed by experts in critical care.



#### Free Ambulance Car

A complimentary ambulance service is provided for all patients requiring medical transport.



#### Specialist and Surgical

Our specialist and surgical services offer comprehensive care for all medical conditions.



### Our Special Doctors

Meet some of our exceptional doctors at HealthCareServiceProvider, who are dedicated to providing exceptional patient care.



**Dr. Emily Smith**  
Cardiologist



**Dr. James Anderson**  
Neurologist



**Dr. Alexander Lee**  
Orthopedic Surgeon

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#### What We Do

Our commitment is to provide exceptional patient care and ensure your health and well-being are our top priority. We are dedicated to providing personalized care and ensuring your health is our top priority.

#### Services

Our commitment is to provide exceptional patient care and ensure your health and well-being are our top priority. We are dedicated to providing personalized care and ensuring your health is our top priority.

#### Contact Us

Our commitment is to provide exceptional patient care and ensure your health and well-being are our top priority. We are dedicated to providing personalized care and ensuring your health is our top priority.

# Book Appointment

Book an Appointment

Patient Name

Email

Phone Number

Department

Select Department

Appointment Date

dd-mm-yyyy

Time

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Book Appointment

Appointment successfully booked!



# Doctor Module

## Patient Records

Doctors can access and update patient medical history, diagnoses, and treatment plans.

## Diagnoses

Doctors can input diagnoses, record symptoms, and generate reports for patient records.

## Treatment Plans

Doctors can create personalized treatment plans, prescribe medications, and track patient progress.

## Doctor Qualifications

The module displays doctor credentials, experience, and specialization for patient trust.

# References

## ▶ HTML, CSS, JavaScript Basics


- [MDN Web Docs](#) – Comprehensive and beginner-friendly.
- [W3Schools](#) – Good for quick examples and reference.

## ▶ Modern JS Practices

- [JavaScript.info](#)
- [Eloquent JavaScript \(free book\)](#)

## ▶ ♦ Backend (Java Servlets)

## ▶ Java Servlet Basics

- [Oracle Java Servlet Documentation](#)
  - [Java Brains – Servlet Tutorial \(YouTube\)](#) – Practical, video-based learning.
  - TutorialsPoint – Servlets
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## ▶ Servlet Deployment with Apache Tomcat

- [Tomcat Installation Guide](#)
- Servlet Example on Tomcat (JournalDev)

## ▶ ◆ Database (MySQL)

## ▶ MySQL Setup and Basics

- [MySQL Official Docs](#)
- W3Schools MySQL Tutorial

## ▶ Connecting Java Servlet to MySQL

- JDBC Tutorial – Baeldung
- JDBC + Servlet + MySQL Example – Real code example with connection and query.

Thank You