

PROJECT ABSTRACT

20MCA245-MINI PROJECT

MediMingle

Smart Doctor Suggestion and Booking System

Project Guide:

Mr. G S Ajith

Asst Prof. Dept of Computer Applications

Amal Jyothi College of Engineering

Submitted by

Jenny Johnson

RMCA (2022-24) S3 (B)

RollNo: 3

AdnNo: 14281

Reg.No:AJC22MCA-2053

MediMingle: Smart Doctor Suggestion and Booking System

In the era of modern healthcare, efficient doctor-patient interactions are essential for timely and accurate medical care. "MediMingle" is a sophisticated web-based platform designed to address this need by offering users a seamless experience in finding suitable doctors based on their symptoms and booking appointments.

Front-End: HTML/CSS, BootStrap

Back-End: Python-Django

Key Modules

- Admin
- Doctor (user)
- Patient (user)

Functionalities

User Authentication and Registration:

- User registration with email and password.
- Secure login and logout.
- Password reset functionality.
- User profile management and update.

Symptom Analysis:

- Collection of user-provided symptoms.
- Validation of symptom data.
- Preparation of symptom data for further analysis.

Symptom-to-Doctor Matching:

- Analysis of user-provided symptoms to determine relevant medical specialties.

- Accurate matching based on predefined rules or machine learning algorithms.
- Recommend doctors to the user.

Doctor Database:

- Maintenance of doctor profiles with specialties, qualifications, contact details, and availability.

Addition, modification, and removal of doctor profiles by administrators.

Booking System:

- Display of available time slots for different doctors.
- User selection of convenient appointment times.
- Booking confirmation and scheduling.

Appointment Management:

- View of upcoming appointments for users and doctors.
- Rescheduling of appointments based on availability.
- Appointment cancellation with advance notice.

Notification System:

- Sending notifications to users about appointment confirmations.
- Delivery of notifications through email, SMS.

Reviews and Ratings:

- Submission of reviews and ratings by users after appointments.

User Profiles:

- Management of personal information, including medical history and preferences.
- Enhancement of symptom-to-doctor matching accuracy through profile data.
- Secure storage and retrieval of sensitive user data.

Admin Dashboard:

- Doctor profile management, appointment tracking, and user account oversight.

Privacy and Security:

- User consent for data collection and usage.

Payment Integration

Implementation of Payment for booking

Functionalities implementing in Mini Project**User Authentication and Registration:**

- User registration with email and password.
- Secure login and logout.
- Password reset functionality.
- User profile management and update.

Doctor Database:

Maintenance of doctor profiles with specialties, qualifications, contact details, and availability.

User Profiles:

Management of personal information, including medical history and preferences.

Booking System:

- Display of available time slots for different doctors.
- User selection of convenient appointment times.
- Booking confirmation and scheduling.

Notification System:

- Sending notifications to users about appointment confirmations.
- Delivery of notifications through email, SMS.

Functionalities implementing in Main Project

Symptom Analysis:

- Collection of user-provided symptoms.
- Validation of symptom data.
- Preparation of symptom data for further analysis.

Symptom-to-Doctor Matching:

- Analysis of user-provided symptoms to determine relevant medical specialties.
- Accurate matching based on predefined rules or machine learning algorithms.
- Recommend doctors to the user.

Appointment Management:

- Rescheduling of appointments based on availability.
- Appointment cancellation with advance notice.

Reviews and Ratings:

Submission of reviews and ratings by users after appointments.

Privacy and Security:

User consent for data collection and usage.

Admin Dashboard:

Doctor profile management, appointment tracking, and user account oversight.

Payment Integration

Implementation of Payment for booking

" MediMingle " aims to revolutionize the healthcare industry by offering a user-centric, efficient, and secure platform that bridges the gap between patients and doctors. The system stands as a testament to modern healthcare innovation, offering a personalized approach to healthcare services in an increasingly digital world.

Project Guide: Mr. G S Ajith