**Requirement Document: Doctor Management Module**

1. **Introduction:**

The Doctor Management Module is an integral component of the hospital management system aimed at facilitating efficient management of doctors' information, appointments, and patient interactions. This document outlines the detailed requirements for the development of this module.

2**. Scope:**

The Doctor Management Module will include the following key features:

- Doctor Login Panel: Secure access for doctors to the system.

- Doctor Dashboard: Centralized interface displaying relevant information and actions for doctors.

- Doctor Profile: Comprehensive profiles containing essential details about each doctor.

- Doctor Appointments: Management of scheduled appointments for each doctor.

- Patient Details in Appointments: Display of patient details and medical history within appointments.

**3. Functional Requirements**

**3.1** **Doctor Login Panel**

- The system shall provide a secure login interface for doctors.

- Doctors shall be required to enter their credentials (username and password) for authentication.

- Authentication shall be performed securely to prevent unauthorized access.

**3.2 Doctor Dashboard**

- Upon successful login, doctors shall be redirected to a personalized dashboard.

- The dashboard shall provide an overview of upcoming appointments, recent patient interactions, and other relevant notifications.

- Doctors shall have access to quick links for managing appointments and updating their profile.

**3.3 Doctor Profile**

- The system shall maintain a profile for each doctor.

- Doctor profiles shall include the following details:

- Name

- Contact Information

- Experience

- Department/Specialization

- Salary

- Qualifications

- Schedule/Availability

- Profile Picture

**3.4 Doctor Appointments**

- Doctors shall be able to view and manage their appointments through the system.

- The system shall allow doctors to schedule new appointments and modify existing ones.

- Appointment details shall include:

- Patient Name

- Appointment Date and Time

- Reason for Appointment

- Status (e.g., confirmed, pending)

- Appointment Type (e.g., in-person, virtual)

**3.5 Patient Details in Appointments**

- Within each appointment, doctors shall have access to patient details and medical history.

- Patient details shall be retrieved from the database and displayed alongside the appointment information.

- Medical history shall include relevant information such as past diagnoses, prescribed medications, allergies, and test results.

**4. Non-Functional Requirements**

**4.1 Security**

- The system shall implement robust security measures to safeguard doctor and patient data.

- Access to sensitive information shall be restricted based on user roles and permissions.

- Data transmission shall be encrypted to prevent interception by unauthorized parties.

**4.2 Performance**

- The system shall be capable of handling concurrent access by multiple doctors and patients.

- Response times for retrieving patient data and updating appointments shall be optimized to ensure a seamless user experience.

**4.3 Scalability**

- The system architecture shall be designed to accommodate future scalability requirements.

- It shall be capable of scaling up to support an increasing number of doctors, patients, and appointments without significant performance degradation.

**4.4 User Interface**

-The user interface shall be intuitive and user-friendly, facilitating easy navigation for doctors of varying technical proficiency.

-It shall adhere to modern design principles and accessibility standards to cater to diverse user demographics.

-The user interface shall be developed using HTML, CSS, and JavaScript to ensure compatibility across modern web browsers and devices.

-HTML shall be used for structuring the content of web pages, ensuring semantic markup and accessibility.

-CSS shall be utilized for styling the user interface elements, adhering to modern design principles and providing a consistent visual experience.

-JavaScript shall be employed to enhance the interactivity and functionality of the user interface, facilitating dynamic content updates and asynchronous communication with the server.

-The user interface design shall be responsive, adapting seamlessly to various screen sizes and resolutions to provide an optimal viewing experience on desktop and mobile devices.

**5. Dependencies**

- Integration with the patient management module to retrieve patient details and medical history.

- Collaboration with the database management team for data storage and retrieval.

**6. Glossary**

- Doctor: Licensed healthcare professional responsible for diagnosing and treating patients.

- Dashboard: Centralized interface providing an overview of relevant information and actions.

- Profile: Detailed information about a doctor, including personal and professional details.

- Appointment: Scheduled meeting between a doctor and a patient for medical consultation or treatment.

- Medical History: Record of a patient's past health conditions, treatments, and diagnoses.

7**. Screenshots:**





