SOFTWARE REQUIREMENTS SPECIFICATION

For

Hospital Appointment Scheduler Prepared by: [Epic Coders]

Introduction:

This Software Requirements Specification (SRS) delineates the essential features and functionalities for the development of a comprehensive Hospital Appointment Scheduler. The primary aim is to optimize the current appointment management processes within the hospital, introducing a sophisticated yet user-friendly web-based platform accessible to both patients and administrative staff.

Overall Descriptions:

The proposed system will seamlessly integrate with the existing Hospital Management System, fostering efficient appointment scheduling, rescheduling, and cancellation functionalities. User roles encompass patients, doctors, and administrative staff. Patients gain control over managing their appointments, doctors can access their schedules, and administrative staff can oversee and manage the broader scheduling ecosystem.

Operating Environment:

The system is engineered to operate across widely used web browsers such as Google Chrome, Mozilla Firefox, and Microsoft Edge. Compatibility extends to major operating systems, including Windows, Linux, and macOS. Hardware prerequisites include a dual-core processor, a minimum of 4 GB RAM, and ample storage with a 50 GB hard disk.

External Interface Requirement:

The graphical user interface (GUI) of the system is designed for optimal user experience. Notable features include interactive appointment calendars, detailed patient profiles, and intuitive scheduling forms. Security measures are paramount, focusing on robust user authentication, authorization protocols, and encryption mechanisms for safeguarding patient data.

System Features:

The core features of the Hospital Appointment Scheduler include comprehensive appointment scheduling and management capabilities, robust user authentication mechanisms, transparent doctor schedule visibility, automated appointment reminders, and efficient patient profile management.

Non-functional Requirements:

Performance requirements dictate swift response times and scalability to accommodate a potentially large user base. Safety measures encompass regular data backups, ensuring resilience in the face of unexpected errors. Security requirements prioritize compliance with healthcare data protection regulations, routine security audits, and timely updates to fortify the system against potential vulnerabilities.

Requirement Attributes:

The system embraces an open-source development approach, emphasizing accessibility and ease of installation. This approach enables ongoing maintenance and ensures adaptability to evolving technological landscapes.

Business Rules:

Adherence to established hospital policies and the transparent communication of appointment rules to patients are integral aspects. The system is designed to enforce and align with these rules, fostering a consistent and reliable scheduling environment.

User Requirement:

User-centric design principles govern the creation of a user-friendly interface, complemented by comprehensive user manuals for all user categories. Administrative facilities are strategically incorporated to empower staff with effective data management tools and streamlined system maintenance capabilities.

Other Requirements:

Data and category requirements are structured to accommodate varying access rights for distinct user categories. Robust categorization and coding mechanisms for patient data contribute to a well-organized information architecture. Supporting documents such as appendices, glossary, and class diagrams provide additional layers of clarity and context to facilitate system understanding and implementation.