Business Requirements

# Introduction:

The following document outlines the business requirements for the development of the CURA Healthcare Demo project. These requirements are essential for addressing the identified business problem and achieving the project objectives.

## 1. Appointment Scheduling:

1.1. User Interface: The system shall provide a user-friendly interface for patients to view available appointment slots, select preferred dates and times, and book appointments with healthcare providers.

1.2. Appointment Management: Healthcare providers shall have the ability to manage appointment schedules, including adding, editing, and canceling appointments. The system should prevent double booking and ensure efficient utilization of resources.

1.3. Automated Reminders: Automated reminders shall be sent to patients to confirm appointments and provide necessary instructions or reminders.

## 2. Patient Information Management:

2.1. Centralized Database: The system shall maintain a centralized database to store patient information, including personal details, medical history, diagnosis, treatment plans, and appointment records.

2.2. Secure Access Control: Access to patient information shall be restricted to authorized healthcare providers and staff members. Role-based access control mechanisms shall be implemented to ensure data privacy and confidentiality.

2.3. Data Integration: The system shall support integration with external systems or electronic health records (EHRs) to synchronize patient data and facilitate interoperability.

## 3. Reporting and Analytics:

3.1. Reporting Dashboard: The system shall include a reporting dashboard for generating insights into appointment trends, patient demographics, and healthcare provider performance.

3.2. Customizable Reports: Users shall have the ability to generate customizable reports based on specific criteria, such as appointment status, patient diagnosis, or revenue generated.

## 4. Regulatory Compliance:

4.1. Data Security: The system shall comply with data security standards, such as HIPAA (Health Insurance Portability and Accountability Act), to protect patient information from unauthorized access, disclosure, or misuse.

4.2. Audit Trails: The system shall maintain audit trails to track user activities, including access to patient records and modifications to sensitive data, for compliance purposes.

## 5. Scalability and Performance:

5.1. Scalability: The system architecture shall be scalable to accommodate growing user base and data volume without compromising performance or reliability.

5.2. Performance Optimization: Performance optimization techniques shall be implemented to ensure fast response times and minimal downtime during peak usage periods.

# Conclusion:

The business requirements outlined in this document serve as a foundation for the development and implementation of the CURA Healthcare Demo project. It is essential to prioritize these requirements to meet the needs of stakeholders and deliver a successful solution that addresses the identified business problem effectively.