PROJECT NAME- HOSPIOL

FRD (Functional REQUIREMENT DOCUMENT)

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6. Introduction:

The Hospital Management System is designed to streamline and improve the operations of a hospital. It will provide an integrated platform for managing patient information, appointments, billing, staff, inventory, laboratory and radiology tests, and reporting.

2. Purpose:

The purpose of this document is to specify the functional requirements of the Hospital Management System to guide its development and implementation.

1. Scope:

The Hospital Management System will cover the management of patient-related information and services within the hospital, including outpatient and inpatient service.

1. System Overview:
2. The Hospital Management System will include the following modules:

* Patient Management
* Appointment Scheduling
* Billing and Payment
* Staff Management
* Inventory Management
* Laboratory and Radiology
* Reports

1. Functional Requirements:
   1. Patient Management:

* Register new patients with their personal, medical, and insurance information.
* Maintain patient records and update them as needed.
* Schedule, track, and manage patient appointments.
* Assign unique patient identifiers for easy tracking.

4.2 Appointment Scheduling:

* Allow patients to request and schedule appointments.
* Provide a calendar view for staff to manage appointments.
* Send appointment reminders to patients.
* Support rescheduling and cancellations.
  1. Billing and Payment:
* Generate itemized bills for services and treatments.
* Calculate insurance coverage and patient responsibilities.
* Accept various payment methods.
* Generate invoices and receipts.

4.3 Staff Management:

* Maintain a database of staff members with their roles and contact information.
* Manage staff scheduling and shifts.
* Track attendance and leave requests.
* Generate staff performance reports.

4.4 Inventory Management:

* Manage hospital inventory, including medical supplies and equipment.
* Track stock levels and reorder items as needed.
* Issue alerts for low inventory levels.
* Record supplier information and costs.

4.5 Laboratory and Radiology:

* Schedule and track laboratory and radiology tests.
* Record test results and associate them with patient records.
* Generate test reports.
* Integrate with diagnostic equipment.

4.6 Reports:

* Generate various reports, including patient demographics, revenue, staff performance, and inventory levels.
* Allow customization of report parameters.
* Schedule automatic report generation and delivery.

1. Non-Functional Requirements:
   1. Performance:

* The system will respond within 2 seconds for most user interactions.
* It will minimum support 1000 patients

5.2 Security:

* Ensure patient data confidentiality and compliance with HIPAA regulations.
* Implement role-based access control for different system users.

5.3 Usability:

* The system should have an intuitive user interface.
* Provide training for staff to use the system effectively.

5.4 Scalability:

* The system should be scalable to accommodate the addition of new departments and facilities.

5.5 Compliance:

* Ensure compliance with relevant healthcare regulations and standards.

5.6. Constraints:

* The system should work on commonly used web browsers and devices.
* It should be developed within a specified budget and timeframe.

5.7. Assumptions:

* Users will have basic computer literacy.
* Internet connectivity will be available for online functionality.

1. Dependencies:

* Integration with external systems (e.g., insurance providers, labs) may be required.

1. Revision History:

Version Date Author Description

1.0 24/JUL/2023 T. Gautam Reddy 1.0

1. Approval:
2. This Functional Requirement Document is approved by:
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