

Business Requirement Document (BRD)

1. Project Overview

The purpose of this document is to outline the business requirements for developing a Hospital Management System (HMS). This system will streamline hospital operations by integrating patient management, staff management, billing, appointments, and medical records into a unified platform. The goal is to enhance operational efficiency, improve patient care, and ensure data accuracy and compliance.

2. Objectives

- Improve patient registration, appointment scheduling, and treatment tracking.
- Provide centralized access to patient medical history and records.
- Enable efficient management of hospital staff, departments, and inventory.
- Support automated billing and payment processes.
- Ensure compliance with healthcare regulations and data privacy laws.

3. Scope

The Hospital Management System will cover major hospital operations including patient management, appointment scheduling, medical records, billing, staff and department management, and reporting. The system will be web-based and accessible by administrators, doctors, nurses, and patients through different access roles.

4. Functional Requirements

Feature	Description
Patient Registration	Register new patients and maintain personal, medical, and contact details.
Appointment Scheduling	Allow patients and staff to schedule, modify, or cancel appointments.
Electronic Medical Records (EMR)	Store and access patient health records securely.
Billing & Payments	Generate invoices and manage payments and insurance claims.
Staff Management	Manage staff details, attendance, and role-based access.
Inventory Management	Track medicines, equipment, and other hospital supplies.
Reports & Analytics	Generate operational, financial, and patient care reports.

5. Non-Functional Requirements

- System should ensure 99.9% uptime for critical operations.
- Response time should be under 2 seconds for most user actions.
- Data should be encrypted and comply with HIPAA and GDPR standards.
- System should support scalability to accommodate multiple hospitals.

- Provide backup and recovery options for data protection.

6. Stakeholders

- Project Sponsor: Hospital Management Board
- Project Manager: Responsible for project execution and delivery
- Development Team: Responsible for system design and implementation
- QA Team: Ensures system reliability and compliance
- End Users: Doctors, Nurses, Administrative Staff, and Patients

7. Timeline & Milestones

Phase	Timeline
Requirements Gathering	Week 1 - Week 2
Design & Architecture	Week 3 - Week 4
Development	Week 5 - Week 10
Testing & Quality Assurance	Week 11 - Week 12
Deployment & Training	Week 13
Go-Live & Support	Week 14

8. Success Metrics

- Reduction in patient waiting time by 30%.
- Improved billing accuracy to 99%.
- Increased patient satisfaction rate above 90%.
- Reduced administrative workload by 25%.
- Efficient utilization of hospital resources and staff.