

Hospital Operations Streamlining Initiative

Requirement Analysis and Specification document



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Table of Contents

Contents

Table of Contents.....	2
Requirement Analysis and Specification Document:	3
PART 1: Gap Analysis (Current State vs Future State).....	3
PART 2: Requirement Prioritization Matrix	4

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Requirement Analysis and Specification Document:

To evaluate the gathered requirements against current hospital operations through Gap Analysis and to prioritize deliverables based on business value, technical feasibility, and cost-effectiveness. This phase ensures that the final solution directly addresses the most critical operational bottlenecks while remaining technically viable.

PART 1: Gap Analysis (Current State vs Future State)

To identify the specific deficiencies in current manual hospital workflows and define the necessary digital transformations required to achieve the desired "Future State" of streamlined, real-time departmental communication.

Business Process	Current State (As-Is)	Future State (To-Be)	Gap / Action Required
Patient Intake	Manual paper forms; redundant data entry; physical storage issues.	Digital registration via tablets; auto-sync with patient EMR.	Implement a Centralized Patient Registration Module.
Prescription Management	Hand-written notes; high risk of illegibility; physical delivery to Pharmacy.	Electronic Prescribing (e-Rx) with digital signatures and real-time alerts.	Develop an Integrated Pharmacy-Doctor Portal.
Departmental Sync	Communication via phone or pager; no real-time tracking of patient status.	Unified dashboard showing live status (Admissions -> Ward -> Pharmacy).	Implement an Inter-departmental Workflow Tracker.
Bed Management	Tracked via whiteboards; manual calls to verify discharge status.	Real-time Bed Management Dashboard with automated discharge updates.	Build a Live Bed-Tracking Module.

PART 2: Requirement Prioritization Matrix

Introduction: To rank the requirements from the BRD based on their urgency, business value, and technical ease, ensuring the project delivers the highest impact first.

Req ID	Requirement Title	Business Impact	Cost	Feasibility	Final Priority
BR-01	Digital Patient Intake	High	Medium	High	High (P1)
BR-02	e-Prescribing Portal	High	High	Medium	High (P1)
BR-03	Centralized Records	High	High	Medium	High (P1)
BR-04	Real-Time Bed Dashboard	Medium	Low	High	Medium (P2)
BR-07	Data Security (RBAC)	High	Medium	High	High (P1)