

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	21 October 2022
Team ID	PNT2022TMID09721
Project Name	Analytics For Hospital's Health-Care Data
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Appointments	<ul style="list-style-type: none">• Recurrent appointments and scheduling available time slots on a regular basis.• Displaying the number of appointments on a given day• After the patient is signed in asking for a mobile number and ID to avoid any issues.• Generating the appointment.• Generate the bill automatically for completed appointments• Appointment Status:<ol style="list-style-type: none">1.Confirmed2.Pending3.Cancelled and No Reschedule4.Cancelled and Reschedule5.No Showf.Completed
FR-2	Clinical Care	<ul style="list-style-type: none">• The admission for the patient must be examined thoroughly and patients who comes in a critical condition should be given treatment immediately.• Enhanced and improved reliability on reporting the data.• Access medication history from external sources and analyze the drugs(medicines) to be given.• Predicting the length of stay of inpatients.
FR-3	Patient Records	<ul style="list-style-type: none">• A Proper record or documentations need to be maintained regarding the patients who are all consulted and detailed analysis of their health details.• The records must be easily accessible when required• Digital records are more efficient and time saving.
FR-4	Bed Requirements	<ul style="list-style-type: none">• Analyzing and monitoring of beds which are required are the most important task.

		<ul style="list-style-type: none"> Using flawless systems for accurately tracking the availability of beds.
FR-5	Providing insights of dataset	<ul style="list-style-type: none"> Raw data collection and sharing of data systems are essential factors in hospital management. Provide dataset without human error.
FR-6	Discharge Summary	<ul style="list-style-type: none"> Unrestricted patients have complete discharge or deferred discharge. Restricted patients have Conditional discharge or absolute discharge They have to be mentioned in the discharge summary.

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Usable systems are straightforward to use by as many people as possible, both in case of either end users or administrators to view the hospital records when needed.
NFR-2	Security	Patient Verification: To verify the Patient by using mobile number and patient ID.
NFR-3	Reliability	A high reliable system has a lower risk of errors and process failures that can cause patients harm. Analyze the current trend and work accordingly to solve the problem in an efficient manner. Being software as a service, HMS is highly resilient to any technology disruptions, downtime, or crashes experienced by other technology systems.
NFR-4	Performance	Quick Response time: Providing acknowledgement in minimal time about the patient information. To ensure that the guidelines and accessibilities are followed.
NFR-5	Availability	Hospital management should Provide all the available facilities to the patients when it is needed. All the prescribed medicines should be easily available to the patients.
NFR-6	Scalability	An integrated system can be customized and are developed to control all hospital operations like patient details, appointment booking, billing, drug management, discharge.