

Solution Requirements (Functional & Non-functional)

Date	03 October 2022
Team ID	PNT2022TMID27483
Project Name	Analytics for Hospital's Healthcare 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	User Registration	Registration through Form
FR-2	User Confirmation	Confirmation via OTP
FR-3	Database	Every patient enters some of their personal details such as name, age, gender, address, and mobile number, etc. along with the disease/injury, its severity, etc. All these details will be stored in the database.
FR-4	Storing disease/injury details	<p>The Hospital Management system also helps in generating reports on the availability of the bed regarding information like bed numbers unoccupied or occupied, ward name, and more.</p> <p>The Hospital Management System generates a predictive LOS based on the patient's information and their disease/injury.</p> <p>It also takes reference from previous similar cases and predicts the LOS.</p> <p>The information about the predicted LOS is also stored on the database along with the disease/injury.</p>
FR-5	Availability of beds	Based on the LOS prediction, the Hospital Management System updates the availability of beds.
FR-6	Check Out	<p>The staff in the administration section of the ward can delete the patient ID from the system when the patient checks out from the hospital.</p> <p>The Staff in the administration section of the ward can put the bed empty in the list of beds available.</p>
FR-7	Adding Patients	The Hospital Management enables the staff at the frontdesk to include new patients in the system.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The patients will get efficient timely care and diagnosis as this software is used for the prediction of LOS for their health.
NFR-2	Security	Assures all data inside the system or its part will be protected against malware attacks or unauthorized access.
NFR-3	Reliability	A highly reliable system consistently performs the specified functions without failure and has a lower risk of errors
NFR-4	Performance	performance measurements include: <ul style="list-style-type: none">• Quality of patient care• Cost of healthcare services• Timeliness of care• Patient's experience
NFR-5	Availability	inpatient, outpatient, pharmacy, and enrollment
NFR-6	Scalability	The ability of a health intervention shown to be efficacious on a small scale and/or under controlled conditions to be expanded under real-world conditions to reach a greater proportion of the eligible population, while retaining effectiveness