

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

Date	15 October 2022
Team ID	PNT2022TMID39445
Project Name	Project - Analytics for Hospitals' 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	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Generation of Patient ID	Unique Patient ID has to be generated for new registered patients
FR-4	Uploading Patient Details	Upload the details of Patients
FR-5	Predict LOS	Predict the Length of Stay of each patient on case by case basis
FR-6	Generating Reports	Generates various reports of the patients
FR-7	Resource Allocation	Do Optimal Resource Allocation and Better Functioning
FR-8	Database	Maintain the Database of Patient Information and Health Data

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	-User friendly system -Easy training and learning of the desired operation in the system
NFR-2	<b>Security</b>	-Only admin can have the right to add or delete new user onto the system, and access other data -The system is hosted on Cloud-based servers, which is located away from the premises, it offers strong, multilayer security to all data exchanged, also remains protected from Cyberattacks

NFR-3	<b>Reliability</b>	<ul style="list-style-type: none"> <li>-Ability to change and develop, configure and service the system</li> <li>-Appropriate response time when encountering an error, minimizes the number and severity of system errors</li> <li>-Appropriate response time to repair and update the system</li> </ul>
NFR-4	<b>Performance</b>	<ul style="list-style-type: none"> <li>-By streamlining and integrating multiple processes, system infuses much speed, agility, and efficiency</li> <li>-System boosts the performance and capabilities of a healthcare facility in helping to treat patients, and better functioning of Hospitals</li> </ul>
NFR-5	<b>Availability</b>	<ul style="list-style-type: none"> <li>-The proposed system will be accessible 24*7 days except maintenance and downtime activities</li> </ul>
NFR-6	<b>Scalability</b>	<ul style="list-style-type: none"> <li>-Support future increases in throughput</li> <li>-System will be able to handle data of 100 patient at any given point of time without affecting stability</li> </ul>