

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

Date	10 October 2022
Team ID	PNT2022TMID04321
Project Name	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 Forms via Websites Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP using mobile number
FR-3	Operability	To present the various ranges of the Length of Stay with respect to their type of disease, severity of corresponding disease and the forewarning future events the dashboard may be constructed using IBM Cognos Analytics.
FR-4	Accuracy	The Length Of Stay (LOS) of the patients can be predicted using different machine learning (ML) techniques with high accuracy.
FR-5	Compliance	The product is to be used within the hospital since the data is purely observational & pseudonymized patient's information can't be shared abiding the ethical and regulatory considerations
FR-6	Productivity	The dashboard is believed to improve the predictions of Length of Stay and thereby creating a scenario of providing better solution

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The Dashboard is created in such a way that the user can overview the information about Length Of Stay using Data Visualization tools.
NFR-2	Security	General level of security shall be provided.
NFR-3	Reliability	Users will find this dashboard to be constant and dependable, assisting them in using it effectively, efficiently, and dependably.
NFR-4	Performance	<p>The length of hospital stay (LOS) is a crucial medical service utilisation indicator that is used to gauge the effectiveness of hospital administration, patient care standards, and functional evaluation. accurate knowledge of the LOS's contributing causes, and progress</p> <p>The LOS of inpatients may be managed more effectively with the use of processing and monitoring enhancements.</p>
NFR-5	Availability	The dashboard will be offered to satisfy the user's needs and shall be clear to the user and will respond to demand promptly.
NFR-6	Scalability	Currently, we are developing a model with a local server that only manages a small number of patients. In the future, we'll connect to a server that can handle more quantity of patients.