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

Date	03October 2022
Team ID	PNT2022TMID35656
Project Name	Analytics for Hospital Healthcare Data
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Database Creation and Updation	Database of the patients need to be created with necessary details such as Name, Age, Date of admission, Medical condition etc and updated in the system as and when they admit in the hospital.
FR-4	Report Generation	Our system can generate various reports related to patients admission and this will help in determining various factors during the analysis of the patient data stay.
FR-5	Prediction Analysis	The length of stay is predicted using the model
FR-6	Patient Checkout	Whenever the patient is discharged from the hospital, the administrator can delete the particular record from the patient database and number of days of stay should be stored.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Our analytics system can be widely used in all the hospitals to keep track of the time of stay of each patient registered in our system so that they can plan their logistics accordingly
NFR-2	**Security**	Our system oversees humongous volumes of data generation, information exchange, storage, and analysis at every level of hospital functioning. It also promotes transparency, protects the confidentiality, prevents data theft, and offers a safe and secure ecosystem for hospitals operations to continue.
NFR-3	**Reliability**	System is highly resilient to any technology disruptions, downtime, or crashes experienced by other technology systems. It has a certain capacity to work offline. It is highly secure from a data safety

		point of view.
NFR-4	**Performance**	Our System has the ability to offer role-based control to users to allow them the use of one part of the function or multiple functions and help them monitor and track every activity necessary for healthcare delivery. Due to such intra-operability and flexible properties, it boosts the performance and capabilities of a healthcare facility in treating patients.
NFR-5	**Availability**	The system will be available for all the hospitals which are registered under our system and the hospital and doctors using it should be accredited by the Medical council.
NFR-6	**Scalability**	Our system can work under highly loaded data without any disruption in operations.