

Project Design Phase II
Solution Requirements

Team ID	PNT2022TMID21499
Project Name	Analytics for Hospitals' Health-Care Data

Solution Requirements

Functional Requirements

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Analyzing and Visualizing Hospital health care data	Visualizing Analysis result on application dashboard. Analyze the relationship between various attributes in the dataset and Length of stay. Interactive dashboard that users can easily understand the insights.
FR-2	Prediction of LOS	Predict the Length of Stay using the user's hospital data like Severity of disease, hospital type, hospital location, hospital name, emergency or not , etc. System should predict the LOS with any number of given attributes.
FR-3	Obtaining User Response for prediction	Get the user's response after the prediction. This helps us to find how accurate our prediction is from the user's point of view. Bad user experience can be noted by doing this, So that we can improve the prediction accuracy.
FR-4	Monitoring user response and satisfaction	Real Time monitoring of user response. Monitoring user satisfaction through various visualizations like barchart, pie chart etc.
FR-5	Monitoring System accuracy	The accuracy of the prediction should be monitored every time there is a change in dataset. If the accuracy becomes low the model should be redesigned for higher accuracy. This way the predictions will be up to date.

Non - Functional Requirements

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	These Dashboards are designed to offer a comprehensive overview of a patient's LOS, and do so through the use of data visualization tools like charts and graphs.
NFR-2	Security	The Dashboard helps to indicate the current threat level to the Hospitals; an indication of events and incidents that have occurred; a record of authentication errors; an indication of scans, probes and unauthorized access, and an indicator.
NFR-3	Reliability	This dashboard will be consistent and reliable to the users and helps the user to use in effective ,efficient and reliable manner
NRF-4	Performance	This dashboard can scan the backend users and analyzing the frequency in which they visit the dashboard helps understand how useful and helpful the data displayed is for tasks.
NRF-5	Availability	The dashboard can available to meet user's demand in timely manner and it is also helps to provide necessary information to the user's dataset
NRF-6	Scalability	The layers used in the dashboard are a hosted feature layer, feature layer view, or hosted tile layer.