

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

| | |
|---------------|---|
| Date | 14 October 2022 |
| Team ID | PNT2022TMID47721 |
| 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 | Dataset | Upload the dataset to the dashboard |
| FR-2 | Analysis | Data is pre-processed and cleaned. After cleaning the exploration process is carried out |
| FR-3 | Prediction | Machine learning algorithm is used for prediction |
| FR-4 | Visualization | Visualization of the prediction is shown in the dashboard created using IBM Cognos Analytics |

Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|---|
| NFR-1 | Usability | Dashboards are created in order to display the length of stay prediction in visual manner. So, the prediction can be easily understood. |
| NFR-2 | Security | The dataset uploaded to the dashboard cannot be downloaded or accessed by external sources. |
| NFR-3 | Reliability | Dashboard created after the prediction process will be more reliable and shows the result clearly and effectively. |
| NFR-4 | Performance | The prediction has more accuracy. |
| NFR-5 | Availability | Predicted data will be available for some time after the prediction. |
| NFR-6 | Scalability | This system will predict the length of stay of all kind of patients |