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

| Date | 14 October 2022 |
|---|---|
| Team ID | PNT2022TMID54247 |
| Project Name | Analytics For Hospital Health 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. |