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

| | |
|---|---|
| Date | 10 October 2022 |
| Team ID | PNT2022TMID04305 |
| 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 Form<br>Registration through Gmail<br>Registration through LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email<br>Confirmation via OTP |
| FR-3 | Operability | The dashboard can be created using IBM Cognos Analytics to display the different ranges of the Length of Stay with respect to their type of disease and with respect to the severity of corresponding disease. |
| 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 and patient's information can't be shared because it also contains some sensitive information. |
| 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 visualization tools. |
| NFR-2 | **Security** | General level of security shall be provided. |
| 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. |
| NFR-4 | **Performance** | Length of hospital stay (LOS) is an important indicator of the use of medical services that is used to assess the efficiency of hospital management, patient quality of care, and functional evaluation. Accurate understanding of the factors associating with the LOS and progressive improvements in processing and monitoring may allow more efficient management of the LOS of inpatients. |
| NFR-5 | **Availability** | The dashboard will be available to meet the user's demand in timely manner and the dashboard will be understandable by the user. |
| NFR-6 | **Scalability** | As of now we are creating a model with local server which handles only less number of patient's. In future we will be connecting to a server which handles more number of patient's. |