**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID23570 |
| Project Name | Project – Analytics for Hospital’s Health Care Data |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration of patient details |
| FR-2 | User Confirmation | Confirmation via OTP |
| FR-3 | Login | Login via cloud storage |

**Non-functional Requirements:**

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

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | Data collected from admissions and discharges is used to analyse staff efficiency and productivity during varying patient volumes. This analysis can lead to more efficient use of personnel resources while improving patient care. |
| NFR-2 | **Security** | The cloud offers nimble disaster recovery, lower up-front costs, and easier expansion – although organizations must be extremely careful about choosing partners that understand the importance of HIPAA and other healthcare-specific compliance and security issues. |
| NFR-3 | **Reliability** | Data Analytics can provide insight into clinical data and thus facilitate informed decision-making about the diagnosis and treatment of patients, prevention of diseases or others. Data Analytics can also improve the efficiency of healthcare organizations by realizing the data potential. |
| NFR-4 | **Performance** | Critical medical equipment, such as MRI scanners requires preventative maintenance to ensure proper operation 24/7. Data from sensors in the machines can predict when it’s time to replace critical components and prevent sudden, costly breakdowns. |
| NFR-5 | **Availability** | The details of the patients are added and it can also predict the number of days a patient is going to stay and is also capable of tracking the disease. |
| NFR-6 | **Scalability** | It does not affect the performance even when the no of patients count got increased during hard times like pandemic .It can even handle large amount of data. |