**Project Design Phase-II**

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

|  |  |
| --- | --- |
| Date | 11 October 2022 |
| Team ID | PNT2022TMID42281 |
| Project Name | Project – SMART SOLUTIONS FOR RAILWAYS |
| 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 | Ticket booking | Booking through website  Booking through developed application  Booking through form in the railway station |
| FR-2 | User Confirmation | Generation of e-ticket  Generation of QR code |
| FR-3 | Database management | Storing the details of the journey in the server |
| FR-4 | GPS | Tracking the location of the train at any instant |
| FR-5 | GSM | To get a wakeup call prior to the destination |
| FR-6 | E-CATRERING | Providing foods for the registered passengers |

**Non-functional Requirements:**

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

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | Availability of digital tickets instead of carrying the physical one. |
| NFR-2 | **Security** | As there is a train tracking facility , It will be an safe journey. |
| NFR-3 | **Reliability** | Data are saved in the secured server so they doesn’t provide any loopholes for the hackers. |
| NFR-4 | **Performance** | No server crash or server down even many numbers of users access the website at the same time. |
| NFR-5 | **Availability** | Accessibility through website or application. |
| NFR-6 | **Scalability** | Easily accessible website with high reliability. |