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|  | **Project Design Phase-II** | |
|  | **Solution Requirements (Functional & Non-functional)** | |
|  |  |  |
| Date |  | 18 October 2022 |
| Team ID |  | PNT2022TMID08784 |
| Project Name |  | Project -Smart solution for railways |
| Maximum Marks |  | 4 Marks |

**Functional Requirements:**

The Following are the functional requirements of the proposed solution.

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
|  |  |  |
| FR-1 | **User Requirements** | 1.Mobile Phone |
|  |  | 2.Internet |
|  |  | 3.QR Code Scanner |
|  |  |  |
| FR-2 | **User Registration** | 1.Manual Registration |
|  |  | 2.Registration through web page |
|  |  | 3.Registration through Application |
|  |  |  |
| FR-3 | **User Confirmation** | 1.Confirmation via Phone. |
|  |  | 2.Confirmation via Email. |
|  |  | 3.Confirmation via OTP. |
|  |  | 4.Confirmation via SMS. |
|  |  |  |
| FR-4 | **Payment Options** | 1.Net Banking/UPI. |
|  |  | 2.Credit/Debit/ATM Card. |
|  |  | 3.Digital Wallet. |
|  |  |  |
| FR-5 | **Application** | 1.Free Installation via Play Store and App store. |
|  | **Installation** | 2.Website is available for free and will function always. |
|  |  |  |
| FR-6 | **Application Feedback** | 1.Through Web page |
|  |  | 2.Through Phone calls |
|  |  |  |

**Non-Functional Requirement**

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

|  |  |  |
| --- | --- | --- |
| **FR**  **No.** | **Non-Functional** | **Description** |
|  | **Requirement** |  |
| NFR-1 | **Usability** | 1.Have a Simple and Efficient application demo |
|  |  | Video. |
|  |  | 2.Easier to use. |
|  |  | 3.If a Traveller has a Mobile Phone,they may |
|  |  | easily Understand the procedure and make |
|  |  | Reservations. |
|  |  |  |
| NFR-2 | **Security** | 1.Two-step authorization is required to secure the application. |
|  |  | 2.Username and password will be assigned in accordance  with |
|  |  | user requirements. |
|  |  |  |
| NFR-3 | **Reliability** | 1.Periodic updates should be made to websites and |
|  |  | applications. |
|  |  | 2.If the booking process is interrupted by an internet  outage, |
|  |  | we offer an offline mode to complete the detail process. |
|  |  |  |
| NFR-4 | **Performance** | 1.The user interface of the web application must be |
|  |  | user-friendly. |
|  |  | 2. Payment methods should be quick and easy. |
|  |  |  |
| NFR-5 | **Availability** | 1.Provided with the proper train location. |
|  |  | 2.Databases are maintained for passenger history. |
|  |  | 3.Anytime and Anywhere for online ticket booking |
|  |  |  |