**Project Design Phase-II**

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

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| **DATE** | 20 OCT 2022 |
| **TEAM ID** | PNT2022TMID23948 |
| **PROJECT NAME** | SMART SOLUTION FOR RAILWAYS |
| **TEAM MEMBERS** | * SAJITH AHMED R (Leader) * MUHAMMAD WAHEEDUDDEN * SYED ASIF S * SYED RIYAZ T |

**Functional Requirements:**

**The Following are the functional requirements of the proposed solution.**

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

**Non-functional Requirements:**

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

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| **S. No** | **Non-Functional Requirements** | **Description** |
| **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 Reservation. |
| **2.)** | Security | 1.Two-step authorization is required to secure the application.  2.Username and password will be assigned in accordance with user requirements. |
| **3.)** | Reliability | 1.Periodic updates should be made to websites and applications.  2.If the booking process in interrupted by an internet outage,  we offer an office mode to complete the detail process. |
| **4.)** | Performance | 1.The user interface of the web application must be user-friendly.  2.Payment methods should be quick and easy. |
| **5.)** | Availability | 1.Provided with the proper train location.  2.Databases are maintained for passenger history.  3.Anytime and anywhere for online ticket booking. |