**Project Design Phase-II**

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

**Project Title**: Smart Solution for Railways **Team ID** :PNT2022TMID42986

**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 | Unique accounts | Every online booking needs to be associated with an account  One account cannot be associated with multiple users |
| FR-2 | Booking options | Search results should enable users to find the most recent and relevant booking options |
| FR-3 | Mandatory fields | System should only allow users to move to payment only when mandatory fields such as date, time, location has been mentioned |
| FR-4 | Synchronization | System should consider time zone synchronisation when accepting bookings from different time zones |
| FR-5 | Authentication | Booking confirmation should be sent to user to the specified contact details |

**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** | Search results should populate within acceptable time limits |
| NFR-2 | **Security** | System should visually confirm as well as send booking confirmation to the user's contact |
| NFR-3 | **Reliability** | System should accept payments via different payment methods, like PayPal, wallets, cards, vouchers, etc |
| NFR-4 | **Performance** | Search results should populate within acceptable time limits |
| NFR-5 | **Availability** | User should be helped appropriately to fill in the mandatory fields, in case of invalid input |
| NFR-6 | **Scalability** | Use of captcha and encryption to avoid bots from booking tickets |