# Project Design Phase-II

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

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| Date | 17 October 2022 |
| Team ID | PNT2022TMID05270 |
| Project Name | Project - SMART SOLUTION FOR RAILWAYS |
| 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 through Web page |
| FR-2 | User Confirmation | Confirmation via OTP through SMS |
| FR-3 | User QR code generation | QR code generation |
| FR-4 | GPS tracker | Current location of train is tracked |
| FR-5 | Available of seat | Based on the available of the seat,we can be book the  ticket |
| FR-6 | Testing | UQR =scanned QR from the user ;  CQR= the code already obtained by the ticket collector ; if( UQR==CQR)  {  Print(“PASS”);  }  else  {  Print(“FAIL”);  } |

**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** | User can navigate easily to find the location of the  train |
| NFR-2 | **Security** | The details are secured in the database(cloud) |
| NFR-3 | **Reliability** | Reliable to the user without any failure as it is not  fixed to limited number of user |
| NFR-4 | **Performance** | User -friendly,the performance should effective and  efficient |
| NFR-5 | **Availability** | Available at any time and any where we want. |
| NFR-6 | **Scalability** | Support the user with their needs in reserving or  booking tickets and tracking the location of train |