**Project Design Phase-II**

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

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| Date | 16October 2022 |
| Team ID | PNT2022TMID11445 |
| Project Name | Smart Solutions 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 | pasenger ticket booking | Ticket booking is done by railway app and website through online . |
| FR-2 | Booking confirmation | Booking confirmation via message or Gmail . |
| FR-3 | PassengerPassengers objections and feedback | Through onlinemessage or Gmail to the respectrespective authority . |
| FR-4 | Passenger schedule | Time scheduling is done by mobile application . |
| FR-5 | Passenger emergency | In emergency situation like theft or accident complaints can be filed through online . |
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**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** | We can detect cracks in railway tracks in highly usable remote railwayrailways by periodic maintenance. |
| NFR-2 | **Security** | By using sensors in tracks any damage or accident is detected. |
| NFR-3 | **Reliability** | Traffic lights and signalling is more reliable. |
| NFR-4 | **Performance** | Communication plays a vital role in transferring the crack detected signal to the respective authority. |
| NFR-5 | **Availability** | Availability of safe routes to the train is done by transferring signals of damaged paths. |
| NFR-6 | **Scalability** | Easy to expand and handle . |