Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| Date | 24.09.2022 |
| Team ID | PNT2022TMID41917 |
| Project Name | Project – 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 | User Registration | Registration through form Registration through Gmail Registration through LinkedIn  Registration through Mobile number |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP Confirmation via call  Confirmation via message |
| FR-3 | Journey details | Provides From and To information and date of travel and seat. |
| FR-4 | Select Trains | Select the appropriate trains among the list and also based on the seat availability, time, date of travel. |
| FR-5 | Book and add passenger | Fill the essential details such as name, contact details and age, government ID. |
| FR-6 | Proceed to pay | Select an appropriate payment options among UPI, Internet banking, credit card, debit card. |
| FR-7 | Ticket confirmation and Invoices | Ticket confirmation status is send to their registered email id or phone number. |
| FR-8 | Database management | Entire Journey details will be stored in the server. |
| FR-9 | Food Service | Foods are available for the registered passengers in an effective manner. |

# 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** | Availability of e-tickets with QR generation instead of physical one. |
| NFR-2 | **Security** | It protects the details of a passenger against  man in the middle and denial of service attacks. |

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| NFR-3 | **Reliability** | It enables the user to securely use the app which provides maximum trust to the user. |
| NFR-4 | **Performance** | No server down problem. |
| NFR-5 | **Availability** | Accessibility through website or application anytime and from anywhere. |
| NFR-6 | **Scalability** | Number of users concurrently interacting with our web application with higher reliability. |