## Project Design Phase-II Solution Requirements (Functional & Non-functional)

Date	13 October 2022
Team ID	PNT2022TMID49855
Project Name	Project - SMART SOLUTIONS FOR RAILWAYS
Maximum Marks	4 Marks

## **Functional Requirements:**

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Gmail
		Registration through Mobile number
FR-2	User Confirmation	Confirmation via Email
		Confirmation via OTP
		Confirmation via call
FR-3	Journey details	Provides From and To information and date of travel.
FR-4	Select Trains	Select the appropriate trains among the list and also
		based on the seat availability.
FR-5	Book and add passenger	Fill the essential details such as name, contact details
		age, sex.
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.
FR-8	GPS	Tracking the live location and the status will be updated
		to the passengers.
FR-9	GSM	To get a wakeup call alarm prior before the destination
		is reached.
FR-10	Database management	Entire Journey details will be stored in the server.
FR-11	E-catering	Foods are available for the registered passengers in an
		effective manner.
FR-12	Health monitoring	Monitor the health of the loco pilot and alert when any
		emergency.

## **Non-functional Requirements:**

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

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
		eavesdropping and denial of service attacks.
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 problems, many user can access at
		same the same time. Better performance is provided.
NFR-5	Availability	Accessibility through website or application anytime
		and from anywhere.
NFR-6	Scalability	No of users concurrently interacting with our web
		application with higher reliability.