	Project Design Phase-II	
	Solution Requirements (Functional & Non-functional)	
Date		13 October 2022
Team ID		PNT2022TMID01176
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

FR No.		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.