

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

Date	15 October 2022
Team ID	PNT2022TMID35843
Project Name	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 Gmail Confirmation via the Phone number Confirmation via mobile app
FR-3	Details available	Provide details such as the availability of trains on a particular date and time.
FR-4	Details required	For booking tickets it should ask user details such as age,sex, etc
FR-5	Payment	Select appropriate payment options among UPI, Internet banking, credit card, and debit card.
FR-6	The booking	Booking confirmation is sent to registered Gmail
FR-7	QR Code	QR Code must be generated which helps in verification of our booking.
FR-8	Weather condition	The weather condition at the destination must be displayed in the UI.
FR-9	Live location (GPS)	The live location of the train must be displayed in the UI
FR-10	Database management	The entered user details must be securely stored in a Database.
FR-11	GSM	To alert the passenger before the destination is reached.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	<ul style="list-style-type: none">• Users can avoid counter ticket Bookings.• The user interface of the product will be easy to use, so that people can easily book tickets.• QR Code can be used instead of printing tickets.
Qr	Security	It stores the user information in a secure Database and will prevent unauthorized access to information.
NFR-3	Reliability	<ul style="list-style-type: none">• Provides no false information.• QR Code can be relied upon for ticket verification and, will not fail anytime.• User data is stored securely.• Upon Transaction failure, your money will be refunded.
NFR-4	Performance	<ul style="list-style-type: none">• Tracks the train location as accurately as possible, and updates the weather condition continuously.
NFR-5	Availability	<ul style="list-style-type: none">• You can access it through website or mobile application anytime and from anywhere, the only necessity is internet availability.
NFR-6	Scalability	<ul style="list-style-type: none">• The website traffic limit will be scalable enough to support large number of users at a time.