

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

Date	07November 2022
Team ID	PNT2022TMID27503
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	The user has to register using their name, address, mobile number and email ID. After finishing the registration the verification code is sent through SMS.
FR-2	User verification	The verification code is sent to the registered mobile number.
FR-3	User confirmation	The verification code is entered and it is redirected to the homepage.
FR-4	Booking process	After getting redirected: <ul style="list-style-type: none">• Should choose from destination to source option along the respective date.• Availability of the trains and seats along with the timings will be displayed.• Price of each of the compartments will also be displayed. The user then has to specify the passenger details (Name, Age, Gender, Seating preference).
FR-5	Payment process	After entering all the details it is directed to the payment gateway.
FR-6	Confirmation message	A confirmation message along with the booking details and the QR code will be generated and sent to the respective user's email ID and through SMS.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	User friendly and guidelines will be displayed for a smooth booking process.
NFR-2	Security	The users credentials will be safe guarded in a secured database.
NFR-3	Reliability	When there's a network issue the user need not enter the details again it'll automatically be saved when entered again.
NFR-4	Performance	Unauthorized access is restricted.
NFR-5	Availability	Helpdesk and queries will be available 24/7
NFR-6	Scalability	Able to smoothly handle an ever-increasing user base or sudden increase in traffic without hiccups or performance issues