

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

Date	17 October 2022
Team ID	PNT2022TMID33222
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 Google or any registered mails.
FR-2	User Confirmation	<ul style="list-style-type: none">❖ Confirmation via Email❖ Confirmation via OTP
FR-3	Authentication	<ul style="list-style-type: none">❖ Verified through Mobile number OTP❖ Verified through Email OTP
FR-4	Administrative functions	Train availability and timings should be updated and maintained correctly.
FR-5	Authorization	Passengers are able to reserve tickets and track the live status of the train.
FR-6	Transactions	Amount required for the ticket is collected through UPI, Credit/Debit cards and Net Banking.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Tickets can be availed from anywhere, anytime without having to be present physically skipping the queue process.
NFR-2	Security	Unique QR will be provided for every traveller to secure their seats avoiding confusion.
NFR-3	Reliability	Incase of transactions or server issues the amount will be debited back to users account as soon as possible.
NFR-4	Performance	User friendly, Effective method, stress less and reliable.
NFR-5	Availability	The site is reinforced to with stand heavy traffic and can sustain high number of users at once, making it highly available.
NFR-6	Scalability	Regular updates can be provided to fix the bugs thus making sure smooth running of the site in the long run.