

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

Date	15 October 2022
Team ID	PNT2022TMID15168
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 Requirements	Smart Phone / Laptop Internet QR code Scanner
FR-2	User Registration	Registration through website Manual Registration
FR-3	User Confirmation	Confirmation via OTP sent via Email Confirmation via OTP sent via Phone Number Authentication
FR-4	Payment Options	Net Banking/ UPI Credit/Debit card Digital Wallet Pay Later
FR-5	User Feedback	Feedback via App/website Contact the authority via mail Direct Complaint
FR-6	Installation	Free installation via preferred app store. Directly use via website

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Have a easy to use and understand. Mobile friendly for better reach. Offline access to access upcoming travel ticket.
NFR-2	Security	Multi-Factor authentication Strong password policy Having a strong encryption.
NFR-3	Reliability	Periodic updates to fix any bugs in the application. Offline mode for important features for better reliability to use in place with no internet connectivity.
NFR-4	Performance	The payment should be quick and reliable. The application should be user friendly and easy to use.
NFR-5	Availability	The up-time should be 24*7 as train journey take place through out the day. Database should have a history of data.
NFR-6	Scalability	The database should be able to handle a large volume of data especially during peek times. It should scale automatically to be cost effectively. It should be able to store the data for a certain period of time.