

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

Date	20 October 2022
Team ID	PNT2022TMID33715
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 Form Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Train Registration Process	Confirmation of User Details
FR-4	QR Code Generation	Confirmation of Transaction Confirmation of Booking Train

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Easy to book a ticket online, instead of buying a ticket In a railway station. No need to stand in a queue for Long time to buy a ticket.
NFR-2	Security	Online reservation of tickets for trains is more secure. No one can access or steal the train ticket, so it provides more security than a paper ticket.
NFR-3	Reliability	If missing any train tickets we can't able to explain the situation to the ticket collector. If we register online and log in to Id through the ticket collector may verify the ticket easily.
NFR-4	Performance	Reserving a train ticket online is more effective and efficient than buying a physical ticket.
NFR-5	Availability	Whenever a passenger needs a train ticket, he/she may reserve it anytime and anywhere. It reduces passengers' struggle and makes train tickets better available.
NFR-6	Scalability	Through the application, we get feedback from passengers after the end of the journey, this makes the improvement and development of train facilities based on passenger convenience.