

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

Date	03 October 2022
Team ID	PNT2022TMID37886
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	<ul style="list-style-type: none">❖ Registration through Gmail❖ Registration through phone number
FR-2	User Confirmation	<ul style="list-style-type: none">❖ Confirmation via Email❖ Confirmation via OTP
FR-3	User Authentication	<ul style="list-style-type: none">❖ Authentication using password❖ Authentication using phone number OTP❖ Authentication Using Aadhar number & bio-metric
FR-4	User Details	<ul style="list-style-type: none">❖ Enter the personal details❖ Enter payment details❖ Enter source & destination to travel
FR-5	Priority	<ul style="list-style-type: none">❖ Administrator can have access to the database❖ Ticket booking process & payment has priority
FR-6	Features of Admin	<ul style="list-style-type: none">❖ The Admin is a super user that have to access to everything.❖ He/her can Analysis the data and process it

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">❖ User friendly UI is required for both website & mobiles❖ Tickets can be booked instantly❖ List of train to reach the destination is listed
NFR-2	Security	<ul style="list-style-type: none">❖ The system provides password protection and end to end encryption technology❖ Tickets can not be duplicated❖ User data & privacy is protected in secured database
NFR-3	Reliability	<ul style="list-style-type: none">❖ More reliable since the user can access application from anywhere and any time❖ Tickets can be booked without any waiting period❖ Location of current train is updated hence user can able predict & plan his/her journey❖ In case of payment failure money will be refunded within 3 days❖ In case customer missed the train , list of next arriving trains to the destination can be sorted out
NFR-4	Performance	<ul style="list-style-type: none">❖ The application can handle huge number of users at a time so no server issues occurs❖ Increases revenue through the fast & secure way of ticket booking
NFR-5	Availability	<ul style="list-style-type: none">❖ Application can be built for specific operating systems & access the website using any kind of browsers❖ User can log in at anytime and anywhere to book tickets without reaching the ticket counter
NFR-6	Scalability	<ul style="list-style-type: none">❖ Lite version of website can be developed for less data consumption❖ simplify the complicated process of booking tickets with few steps
NFR-7	supportability	<ul style="list-style-type: none">❖ The system web site shall be viewable from Microsoft edge, Google chrome ,Mozilla firefox,etc.❖ Customer care & helpline number is provided to assist the user