

Project Design Phase-II
Functional Requirements

Date	15 October 2022
Team ID	PNT2022TMID35329
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 Registration through Other social media sites such as facebook. Registration through Phone number
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Authentication/Login	Authentication via Login ID and Password Authentication via OTP received on registered phone number
FR-4	Details of Trains	Collect user's start and destination List all trains connecting the above start and destination.
FR-5	Booking of Tickets	Display available classes in the train Collect user's preferred class Display available seats in the train Collect user's preferred seat/berth Allot different seat/berth if preferred seat/berth is not available
FR-6	Initiate Payment	Provide users with different payment options such as credit card/ debit card/ UPI Redirect to the selected payment gateway On successful completion of payment proceed onto FR-7
FR-7	Generate Ticket	Generate E-ticket for the user's journey with all the necessary details and most importantly a QR code used to authenticate the user during their journey
FR-8	Status of Ticket	Display the status of the ticket whether - confirmed/waiting list/RAC
FR-9	Reminders/Notifications	Remind users about their journey a day ahead before the actual journey Notify the users if the status of their ticket changes - such as from waiting list to confirmed or RAC to confirmed Notify the users if the train is cancelled and also provide alternatively available trains
FR-10	Live tracking of Trains	Provide real-time tracking of trains using GPS and make information such as ETA, current stop, unseen delays etc available to users
FR-11	Ticket cancellation	Provide an option to cancel the ticket.

