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

Date	03 October 2022
Team ID	PNT2022TMID19615
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 Gmail ✙ Registration through phone number
FR-2	**User Confirmation**	✙ Confirmation via Email ✙ Confirmation via OTP
FR-3	**User Authentication**	✙ Authentication using password ✙ Authentication using phone number OTP ✙ Authentication Using Aadhar number & biometric
FR-4	**User Details**	✙ Enter the personal details ✙ Enter payment details ✙ Enter source & destination to travel
FR-5	**Priority**	✙ Administrator can have access to the database ✙ Ticket booking process & payment has priority
FR-6	**Features of Admin**	✙ 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**	✟ 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**	✟ 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**	✟ More reliable since the user can access application from anywhere and any time ✟ Tickets can be booked without any waiting period ✟ In case customer missed the train , list of next arriving trains to the destination can be sorted out
NFR-4	**Performance**	✟ 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**	✟ 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**	✟ Lite version of website can be developed for less data consumption ✟ simplify the complicated process of booking tickets with few steps
NFR-7	**supportablility**	✟ 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