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

Date	28 October 2022
Team ID	PNT2022TMID13667
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	Before the user registration there will be language selector .All the language is applicable .When user enter in to the website they can see the page which shows enter the email-id ,mobile number and name. After that in screen it shows the verification code which will be sent to the email-id.
FR-2	User verification	The verification code is send to the registered email id.
FR-3	User confirmation	The verification code is entered in to the website. After finishing that home page is opened.
FR-4	Process of booking	When the home page is opened there will be a From and To options. We must enter the details then after that we can able to see the number of trains availability and seats availability. We can select the particular train and particular seats which we need and click the confirm option.
FR-5	Payment process	After entering all the details select the payment option like UPI apps , Net-banking , etc., When we select the comfortable method then it process through selected payment option then payment can be done carefully and securely, then the ticket will be confirmed. After confirmation it will return to the page and we can see the details of booking.
FR-6	Confirmation message	After all the process has been completed the QR code will be send to both mobile number(via SMS) and email id. QR code will be shown to the ticket collector where all the booking details can be viewed by scanning the QR code.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	This website is a set of easy methods so there will be no difficulties of operating it. All the languages can be accessed through by user.

NFR-2	**Security**	The permission required is only the access of location and there won't be any other unauthorized permission needed.
NFR-3	**Reliability**	If the network connection is disabled While entering the details of user no worries you no need to enter the details again as all the details will be stored automatically.
NFR-4	**Performance**	The website is more secured and it will obtain through the back end. unauthorized person can't access the website.
NFR-5	**Availability**	only the QR code is sended through the message and email id only no other information is included
NFR-6	**Scalability**	At a time more than 300,000 users can obtain .All the data will be stored carefully without any issues.