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

Date	3 October 2022
Team ID	PNT2022TMID 53940
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 Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Dashboard	Search menu to find trains based on location Selection menu to book tickets
FR-4	Uploads	Document upload portal Document verification window Document storage for future use
FR-5	Payment	Payment portal using third -party gateway
FR-6	Feedback	24/7 chat menu (service provided using agencies) to raise issues Google Form to register feedback and suggestions Google Form to register complaints
FR-7	Amenities	Portal to place food and medicines order
FR-8	Checking	QR scanner with access to local database
FR-9	Emergencies	SoS portal for contacting the train pilot, police and hospitals

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The application comes with a entry demo that will walk the customer through the features of the proposed solution. A quick help menu will be present in every page describing the functionalities of the page. The page is user friendly with accessibility options thus helping people from all walks of life to easily book tickets.

NFR-2	**Security**	Any and all data uploaded to the portal is encrypted during transmission and secured again while storing on the cloud. Documents uploaded to verify identity are checked thoroughly to avoid impersonation.
NFR-3	**Reliability**	Data will be sent to the cloud in a stream and important data will be cached to the local device to avoid data corruption. The application will run smoothly even in cases of low bandwidth network
NFR-4	**Performance**	
NFR-5	**Availability**	Available to all users across all hardware and operating systems for which the corresponding manufacturer / company is providing support
NFR-6	**Scalability**	Portal can be scaled to accommodate other modes of transportation. Portal can be scaled to support high network traffic due to advanced cloud capabilities.