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

Project Name:	Smart Solutions For Railways
TeamID:	PNT2022TMID24298
Maximum Marks	4 Marks

SUBMITTED BY:

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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 Mobile number
FR-2	User Confirmation	Confirmation via EmailConfirmation via OTP Confirmation via call
FR-3	Journey details	Provides From and To information and date of travel.

FR-4 Select Trains Select the ap	propriate trains among the list and alsobased
on the seat a	valiability.
FR-5 Book and add passenger Fill the esser age, sex.	ntial details such as name, contact details
	propriate payment options among banking, credit card, debit card.
FR-7 Ticket confirmation and Invoices Ticket confirmation and Invoices email id.	rmation status is send to their registered
FR-8 GPS Tracking the the passenger	live location and the status will be updatedto rs.
FR-9 PIR To get the Railway Trac	information of detecting the motions in ck.
FR-10 Database management Entire Journe	ey details will be stored in the server.
FR-11 E-catering Foods are a effective man	vailable for the registered passengers in an inner.
FR-12 Health monitoring Monitor the lemergency.	nealth of the loco pilot and alert when any
FR-13 Ultrasonic Sensor To calculate	the distance between the Train and Station.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Availability of e-tickets with QR generation instead of physical one.
NFR-2	Security	It protects the details of a passenger against eavesdropping and denial of service attacks.

NFR-3	Reliability	It enables the user to securely use the app which provides maximum trust to the user.
NFR-4	Performance	No server down problems, many user can access at same the same time. Better performance is provided.
NFR-5	Availability	Accessibility through website or application anytime and from anywhere.
NFR-6	Scalability	No of users concurrently interacting with our web application with higher reliability.