

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

Date	03 October 2022
Team ID	PNT2022TMID42792
Project Name	Project –Smart Solution 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	Ticket Booking	Ticket booking through the website and mobile apps
FR-2	Booking Confirmation	Ticket confirmation via Email Booking Confirmation via SMS
FR-3	Passenger Feedback and Objections	Through the email to the respective and online application
FR-4	Passenger Schedule	Passenger can see their train training through the mobile app and website
FR-5	Passenger Emergency	Passenger in an emergency, in case of accidents, or theft during the journey and health issues in the train can complain through the website or mobile apps or emergency calls , SMS , email and online application

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Within periodic maintenance , we can detect cracks in the railway track. Which will be highly usable on the remote railway tracks.
NFR-2	Security	Accidents and property damage can be prevented with the help of our smart sensors which immediately send the fault to the leader and administration.
NFR-3	Reliability	Traffic lights and signalling can be made accurately with the help of sensors.so it is more reliable.
NFR-4	Performance	Communications plays a vital role in transferring the crack-detected signal to the responsible authority so that they can take appropriate measures within a short span.
NFR-5	Availability	Our plan is to make the crack alert to all the sub stations to inform the trains about the fault

NFR-6	Scalability	Our project is based on IOT and cloud ,which makes the leader and authorthy updated every single sec. Adhoc is easy to handle.
-------	--------------------	---