PROJECT DESIGN PHASE-II

SOLUTION REQUIREMENTS (FUNCTIONAL & NON-FUNCTIONAL)

Date	23 October 2022
Project Name	Project - Smart Solutionsfor
	Railways

TEAM ID	PNT2022 TMID48884

FUNCTIONAL REQUIREMENTS:

Fo lowing are the functional requirements of the proposed solution.

FR	Functional	Sub Requirement (Story / Sub-Task)
No.	Requirement (Epic)	
FR-1	Passenger ticket booking	Booking through the online railway mobile app and website.
FR-2	Booking Confirmation	Booking Confirmation via Email Booking Confirmation via SMS
FR-3	Passenger objections and feedback	Through the online application, SMS, and email to the respective authority.
FR-4	Passenger schedule	Passenger can see their train timing through the mobile a p
FR-5	Passenger Emergency	Passengers in an Emergency, in case of accidents, natural disasters, or theft during the journey can complain through online applications, emergency calls, SMS, and

	email.

NON-FUNCTIONAL REQUIREMENTS:

Fo lowing are the non-functional requirements of the proposed solution.

FR	Non-Functional	Description
No.	Requirement	
NFR- 1	Usability	Within periodic maintenance, we can detect cracks in the railway track. which will be highly usable on 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 pilot and administration.
NFR-	Reliability	Traffic lights and signalling can be
3		made accurately with the help of
		sensors. so it is more reliable.
NFR- 4	Performance	Communication 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 idea is to make the crack alert to a I the trains passing through that fault-prone area.
NFR-	Scalability	Our project is based on IoT & cloud, which makes the pilot and authority updated every single sec. Adhoc is easy to handle.