

Project Design Phase-I
Proposed Solution

Date	19 September 2022
Team ID	PNT2022TMID35177
Project Name	Project - Smart Solution for Railways
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Improving the current railway ticket booking system and to remove the surrounding uncertainties around the process.
2.	Idea / Solution description	Using GPS modules to provide users with the train's location and estimated time of arrival. A web UI will be used as a portal for users, which also generates unique QR codes on successful ticket booking. QR codes can be used to streamline the ticket verification process
3.	Novelty / Uniqueness	1)Using ML for predicting if the ticket will get confirmed from the Waiting list. 2) Improving the security of the QR code and the data stored. 3) Regulating Temperature in AC Coaches 4) Crash detection and sending SOS to first responders
4.	Social Impact / Customer Satisfaction	1) Trust of users on Railways increases 2) Accidents will be reduced 3) Users will save time and plan their work accordingly
5.	Business Model (Revenue Model)	Offering Yearly/Monthly Subscription based model to the competent Railway Authorities.
6.	Scalability of the Solution	1) The solution uses off the shelf technologies and no specialized softwares is used. 2) Hardware requirements involve only a QR code scanner and GPS module which can be installed on the trains.