

PROJECT DESIGN PHASE-I

Date	10 October 2022
Domain Name	Internet Of Things (IoT)
Project Name	Smart Solutions for Railways
Team ID	PNT2022TMID05234

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ul style="list-style-type: none">• To provide an efficient way by introducing paperless tickets using QR code• To design a GPS module to track the location of the train.
2.	Idea / Solution description	<ul style="list-style-type: none">• GPS tracker is placed in the train so that the passengers can track the location of the train even it is delayed.• Passengers can book their tickets using the website which is possible at anytime, anywhere.• Smart ticketing to avail seasons so that physical work is eradicated.
3.	Novelty / Uniqueness	This project stands unique from the existing ones, by implementing facilities for getting train seasons online and the passenger is alerted through mobile phone before destination arrives.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none">• No Queuing to get tickets and burdenless because of e-tickets.• Elimination of dilemma whether the train has left or yet to arrive.• Can get the status and avail of e-seasons instead of visiting the station physically every time.• Customers for sure they get satisfied as they are in the fast roaming world this technique makes more easier for travelling passengers.• People can book their ticket through online and they get a QR code through SMS

5.	Business Model (Revenue Model)	A web page is designed in which the user can book tickets and will be provided with the QR code, which will be shown to the ticket collector and by scanning the QR code the ticket collector will get the passenger details. The booking details of the user will be stored in the database, which can be retrieved any time.
6.	Scalability of the Solution	<p>The scalability of this solution is most feasible among the passengers who are willing to travel.</p> <p>No need of taking printout</p> <p>Counter ticket has to be handled with care, but SMS on mobile is enough.</p> <p>No need to taking out wallet and showing your ticket to TTR just tell your name to TTR that you are a passenger with valid proof.</p>