

**Project Design Phase-I**  
**Proposed Solution Template**

Date	19 September 2022
Team ID	PNT2022TMID13667
Project Name	Smart Solutions For Railways
Maximum Marks	2 Marks

**Proposed Solution Template:**

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

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Smart Solutions for railways is designed to reduced the work load of the user and also the use of paper
2.	Idea / Solution description	A Web UI is designed to enable online ticket booking and a QR code is generated for the user who has booked the ticket to verify it with Travelling Ticket Examiner ( TTE ) which is done using Cloud Service .
3.	Novelty / Uniqueness	<ul style="list-style-type: none"><li>• Unique QR code for each user to verify their Tickets by Ticket Checker.</li><li>• GPS Module to track the location of Train and live status is updated in the Web app .</li></ul>
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"><li>• GPS Module to track the location of Train and live status is updated in the Web app .</li><li>• The location of the train is updated periodically in the web app so customers can easily track the status of the train which may help the customer to arrive on time .</li></ul>
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"><li>• Selling a Product which enables online booking platform and automatic verification system would fetch more revenues to the Organisation , also the Online Platform has to be maintained continuously and so , the business will sustain and can be improved if required .</li></ul>
6.	Scalability of the Solution	<ul style="list-style-type: none"><li>• a QR code is generated to hold the unique data of user in cloud , and a GPS module is attached to lot platform inorder to monitor the train location which gives an additional tracking mechanism to ensure reliability .</li><li>• We propose a solution which works on the SaaS ( Software as a Service ) cloud model wherein all necessities are deployed in the web browser which gives an easy access and also the cost is minimal which gives a scaled solution approach .</li></ul>