

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID14953
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)	The problem that to be solved in getting details of applicant that are should be present in the ticket
2.	Idea / Solution description	A Web page is designed for the public where they can book tickets by seeing the available seats. After booking the train, the person will get a QR code which has to be shown to the Ticket Collector while boarding the train. The ticket collectors can scan the QR code to identify the personal details. A GPS module is present in the train to track it.
3.	Novelty / Uniqueness	Smart Solutions for railways are designed to reduce the work load of the user and also the use of paper.
4.	Social Impact / Customer Satisfaction	Transportation systems are complex with respect to technology and operations due to the involvement of a wide range of human actors, organizations and technical solutions. There is a need to apply intelligent computerized systems for the operation and such as computerized traffic control systems for coordinating advanced transportation.
5.	Business Model (Revenue Model)	An increase in rail passengers has meant rail companies must do more to optimize networks to keep up with demand increasing fuel prices and spiraling road congestion has meant that rail travel is experiencing something of a renaissance.
6.	Scalability of the solution	A train ticket is a ticket issued by a railway operator that enables the commuters to travel on the railway network. Tickets can authorize the commuters to travel a set itinerary at a specific time. An automatic ticket vending machine was introduced to scrap cvm coupons and avoid long queues.