

Project Design Phase-I
Proposed Solution Template

| | |
|---------------|---------------------------------------|
| Date | 17 October 2022 |
| Team ID | PNT2022TMID01035 |
| Project Name | Project - Smart solution 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) | # Ticket reservation through counter is not sufficient and convenient for the passengers. The passengers are struggling to get tickets in the time from ticket counters. So they like to switch over online ticket booking |
| 2. | Idea / Solution description | # A webpage is designed in which the user can book tickets and will be provided with a QR code which will be shown to the ticket collector and the Ticket collector will be scanning the QR code to get the passenger details. # The booking details of the user will be stored in the database which can be retrieved anytime. |
| 3. | Novelty / Uniqueness | # The booking capacity is 2k tickets per minute. # All the booking details of the customers will be stored in the database with a unique ID and they can be retrieved back when the Ticket Collector scans the QR Code. # You can also view interactive seat map. |
| 4. | Social Impact / Customer Satisfaction | # The percentage of internet ticketing passengers overtaking the percentage of counter ticketing passengers. # Book train tickets well in advance. It is usually available even if you book a few days in advance. # The booking tickets is made easy to use and it is also reliable and no need to go to station for booking tickets and the transaction process is also made easy. |

| | | |
|----|--------------------------------|---|
| 5. | Business Model (Revenue Model) | India is projected to account for 40% of the total global share of rail activity by 2050. This allows great potential for the online ticket booking. But what the smart solution for railways really need to figure out is a way to minimise cost and increase the revenue channels. With the influx of more competitors in this business, the customers will have a variety of platforms to choose from. The |
| | | growth of this market will give a direct boost to the Indian railway industry |
| 6. | Scalability of the Solution | <p>#The booking capacity will be increased from 2K tickets per minute to 15K tickets per minute as time demands.</p> <p>#The percentage of internet ticketing passengers overtaking the percentage of counter ticketing passengers for the first time, just as the 4G revolution was hitting India. #This solution can accommodate expansion without hampering the existing workflow and ensure an increase in the output or efficiency of the process.</p> |