

## Project Design Phase-I

### Proposed Solution

Date	19 September 2022
Team ID	PNT2022TMID25456
Project Name	Smart Solutions For Railways
Maximum Marks	2 Marks

### Proposed Solution :

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ul style="list-style-type: none"><li>➤ Unable to reserve a preferred seat, and seat availability is unknown.</li><li>➤ The train's arrival time cannot be determined due to network issues.</li></ul>
2.	Idea / Solution description	<ul style="list-style-type: none"><li>➤ Paperless tickets using qr code are generated to reduce the cost of ticket generation and to provide the tickets instantly.</li><li>➤ Live location of the train and the delay in train timings can be found in the application</li><li>➤ Seat availability of the trains and the seat preference can be managed using a simple UI.</li></ul>
3.	Novelty / Uniqueness	<ul style="list-style-type: none"><li>➤ User friendly application with more features</li><li>➤ Better security</li></ul>
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"><li>➤ Since the tickets are paperless the passengers need not worry about the tickets</li><li>➤ Tickets can be easily verified using the valid id proof of the customer</li></ul>
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"><li>➤ The cost for generating the tickets is reduced.</li><li>➤ Revenue can also be generated using food and snacks delivery in trains.</li></ul>
6.	Scalability of the Solution	<ul style="list-style-type: none"><li>➤ Managing the booking history and the journey history can be done easily using machine learning.</li><li>➤ Food and snacks can be ordered using our application in future.</li></ul>