Project Design Phase-I
Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID42395
Project Name	SMART SOLUTIONS FOR RAILWAYS USING IOT
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	A web page designed for the public where they can book tickets by seeing the available seats. After booking a train, the person will get a QR code which has to be shown to the ticket collector. The ticket collector can scan the QR code to identify the personal details. 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.
2.	Idea / Solution description	To avoid the Ticketless travelling in the Railways, We as a team proposing a solution that where in the entrance of the railways there is a scanner with a gate system that checks the QR code got after ticket booking the gate opens when the code is scanned and a motion sensor is placed that detects the number of persons entering and that count is got tally with the number of tickets booked once the both counts gets equal the door gets closed.
3.	Novelty / Uniqueness	Automatic open close door using a PIR Sensor by sensing the motion.
4.	Social Impact / Customer Satisfaction	By using this application passenger can know where exactly they are while travelling. This application will guide every steps for the first users. Passengers can give a feedback or raise a complaint, that will be resolved within 2 days.

5.	Business Model (Revenue Model)	The main drawback of the railway system, the ticketless traveling is moreover prevented by method.
6.	Scalability of the Solution	It is easy and simple process. This will lead to cost benefits for government. It will save your time. It Supports better services in railway sector