## Project Design Phase-I Proposed Solution Template

Date	
Team ID	PNT2022TMID37118
Project Name	Smart solution for railways

## **PROPOSED SOLUTION:**

S NO	PARAMETER	DESCRIPTION
1.	Problem Statement (Problem to be solved)	The explosively growing demand of internet of things (IoT) has rendered broadscale advancements in the fields across sensors, radio access, network, and hardware/software platforms for mass market applications.
2.	Idea / Solution description	<ul> <li>GPS facility is used for validation of the ticket at the source and deletion at the destination.</li> <li>Smart sensors and analytics across the train engine, coaches, and tracks allow rail systems to be remotely checked and repaired before a small issue magnifies into huge trouble.</li> <li>The operating cost involved in loading, transporting and unloading material from mining and other industries continue to rise as road travel is often prone to delays, especially for hauling heavy material.</li> <li>Railway transport can be cost effective.rail has lower fuel costs compare to road transport.</li> </ul>
3.	Novelty / Uniqueness	The main uniqueness is ticket should be check using scanning ,this should be advance technology use in the system

5.	Social Impact / Customer Satisfaction  Business Model (Revenue Model)	<ul> <li>Polish startup REDS develop software solutions to support railway operators to increase their safety,punctality,and energy efficiency.</li> <li>Railways encouraged people to travel further and this meant people could move to different area to find work</li> <li>The railways made india mobile and opened up new vistas and opportunities for its people.</li> <li>Smart sensors can be used to track important assets,manage passenger flow,and enable predictive maintenance.</li> </ul>
6.	Scalability of the Solution	The IoT technology has been heavily used in railway applications, including railway operations, management, maintenance, video surveillance systems, and train control systems