

**Project Design Phase-I**  
**Proposed Solution**

Date	6 November 2022
Team ID	PNT2022TMID24298
Project Name	Project - Smart Solutions For Railways
Maximum Marks	2 Marks

**Proposed Solution :**

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To maintain the tracks, repairs and services to avoid accident, safeguard of things, track the running status of the train in smart railway system and reach the destination place on time due to train delay.
2.	Idea / Solution description	The idea is able to predict the delays in prior and helps to decide best alternatives to reduce delays. With the help of sensor to detect the crack in rail track with measuring the distance from the track to sensor to reduce the accidents.
3.	Novelty / Uniqueness	Improving and increasing customer experience ,vehicle tracking system.IOT is used along with AI which Provides enhanced features in finding out delays.
4.	Social Impact / Customer Satisfaction	Predicting delay and detecting the train arrival time so that help the passenger to act accordingly and keep tracking the location of the train and travel in easy and modern way
5.	Business Model (Revenue Model)	Product and service sales to the railways system .User booking and Scheduling Service it makes passengers to avoid delays which will make more number of people to shift to railway mode of transportation which increases the revenue of railways
6.	Scalability of the Solution	Using IoT in railways, increased the use of trains among people due to its convenient usage. So it will automatically increase the both revenue and expenses ,but the revenue will chase the expenses and will be boosting .