Project Design Phase-I || Proposed Solution Fit

Date	01/10/2022
Team ID	PNT2022TMID50925
Project Name	IOT Based Smart Solutions For Railways

➤ **Proposed Solution :**

S.No	Parameter	Description
1.)	Problem Statement (Problem to be solved)	• Keep track of passengers and schedule their journey accordingly. • Information about the route cancellation of tickets ,departure time , arrival time ,number of trains available and other such information. • Store and retrieve information about the various transactions related to rail travel. • Mostly railway gates are operated manually by labours this can be digitalized by automatic gate

		system.
2.)	**Idea / Solution description**	**• Smart sensors can be used to track important assets, manage passenger flow, and enable predictive maintenance.** **• IoT devices can also monitor the driver's behaviour and can inform about the driving style and idling time.** **• The railway gates are operated by automatic gate system.**
3.)	**Novelty / uniqueness**	**The uniqueness of our proposed paper is that it helps railways successfully manage passengers safety ,operational efficiency and passenger experience**
4.)	**Social Impact / customer satisfaction**	**Information regarding train arrival and departure time, no of trains available, train current location makes the customer more**

		satisfied.
5.)	**Business Model (Revenue Model)**	**It is the cheapest mode of transportation and attracts many customers.**
6.)	**Scalability of the Solution**	**• Iot sensors, vibration and temperature sensor, rail crossing sensors , rail friction sensor , obstacle detecting sensor.** **• These sensors are used for safety and greater reliability .Thus by this proposed solution we can avoid rail line crossing deaths ,monitor rail friction , detect obstacles and track maintenance**

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