Project Design Phase-I || Proposed Solution Fit

Date	17/10/2022
Team ID	PNT2022TMID44153
Project Name	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 theroute cancellation of tickets ,departure time , arrival time ,number of trains available andother such information. • Store and retrieve information about the various transactions related to rail travel. • Mostly railway gates are operated manuallyby labours this can bedigitalized by automatic gate

		system.
2.	**Idea / Solution description**	• Smart sensors canbe 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 idlingtime. • The railway gates are operated by automatic gate system.
3.	**Novelty / uniqueness**	The uniqueness of our proposed paper is thatit helps railways successfully manage passengers safety ,operational eciencyand 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 transportationand attracts many customers.
6.	**Scalability of the Solution**	• Iot sensors, vibrationand temperature sensor, rail crossing sensors , rail friction sensor , obstacle detecting sensor. • These sensors are used for safety and greater reliability .Thusby this proposed solution we can avoid rail line crossing deaths ,monitor rail friction , detect obstacles and track maintenance

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