

## Ideation Phase

### Define the Problem Statements

Date	19 September 2022
Team ID	PNT2022TMID46747
Project Name	Smart solutions for railways
Maximum Marks	2 Marks

#### Customer Problem Statement Template:

Undesirable downtime due to sudden repairs can soon be a thing of the past for the railways. Predictive and preventive maintenance is feasible and more effective in the IoT era. 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. Asset health monitoring through IoT insights implies less of maintenance delays and helps in extending the life of rail infrastructure.

I am	a train Passenger	I am expecting waterless & odourless toilet & clean rail track , box maintenance.
I am trying to	To avail a train journey with basic amenities and security	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
But	I am facing a trouble in availing the above said amenities	Odour toilet , cleanliness railway tracks
Because	the poor monitoring and maintenance of the coaches and tracks.	Currently most train operator are unable to determine the status of on board toilet in real time and significant amount of manual checking is required. So we feel uncomfortable.
Which makes me feel	Uncomfortable to avail train journey.	The automation of toilet can significantly reduce the cost incurred by the train operator and at the same time provide a better service to passenger who will likely find a toilet out of order

