

**Ideation Phase**  
**Brainstorm & Idea Prioritization**

Date	19 September 2022
Team ID	PNT2022TMID35329
Project Name	Project - Smart Solutions for Railways
Maximum Marks	4 Marks

**Step-1: Team Gathering, Collaboration and Select the Problem Statement**

**PROBLEM**

**How might we improve passenger's travel experience, assure their safety, remove any confusion, mitigate the effects of delays and use latest technology instead of cumbersome traditional methods such as a printed ticket?**

## Step-2: Brainstorm, Idea Listing and Grouping

### Team Lead - 2019103585

Automatic call to the passenger 10 minutes before the destination arrives.

Book auto/cabs while nearing the destination.

Providing a provision for ordering food via the booking app.

Check the passenger's location before starting at each station to make sure he/she is inside the train.

### Team Member 1 - 2019103561

Create a more intuitive website with proper UI/UX.

Use QR/Rfid for ticket verification.

Use GPS data to analyze delays and optimize timings.

Allow users to call for help/train halt through the app in case of emergency.

### Team Member 2 - 2019103540

Track the station that the passenger is in using GPS and share live location in the app.

Suggest nearby tourist attractions based on passenger's destination.

Notify the users with proper destination and arrival time of the trains.

Suggest nearest bus stops to users from their present train stations.

### Team Member 3 - 2019103504

Smoke detectors installed in trains to prevent massive fires.

Reminders containing information about their journey can be sent to the passengers at a chosen interval.

In case of a train being cancelled or halted before the entire journey is complete, alternative travel suggestions can be made.

Allow passengers to choose specific seats or allot seats according to passenger's needs such as lower berths for senior citizens.

## Location Based Services

Automatic call to the passenger 10 minutes before the destination arrives

Book auto/cabs while nearing the destination.

Check the passenger's location before starting at each station to make sure he/she is inside the train.

Use GPS data to analyze delays and optimize timings.

Track the station that the passenger is in using GPS and share live location in the app.

Suggest nearest bus stops to users from their present train stations.

Suggest nearby tourist attractions based on passenger's destination.

Notify the users with proper destination and arrival time of the trains.

## Improved safety measures

Allow users to call for help/train halt through the app in case of emergency.

Smoke detectors installed in trains to prevent massive fires.

## Reminders and Notifications

Notify the users with proper destination and arrival time of the trains.

Reminders containing information about their journey can be sent to the passengers at a chosen interval.

Automatic call to the passenger 10 minutes before the destination arrives

## User experience improvements

Create a more intuitive website with proper UI/UX.

Use QR/Rfid for ticket verification.

In case of a train being cancelled or halted before the entire journey is complete, alternative travel suggestions can be made.

Allow passengers to choose specific seats or allot seats according to passenger's needs such as lower berths for senior citizens.

Providing a provision for ordering food via the booking app

Step-3: Idea Prioritization

