


Ideation Phase

Brainstorm & Idea Prioritization

Date	16 October 2022
Team ID	PNT2022TMID22305
Project Name	Signs With Smart Connectivity For Better Road Safety
Maximum Marks	4 Marks





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

Template



Brainstorm & idea prioritization

Signs With Smart Connectivity for
Better Road Safety



Share template feedback

1

Define your problem statement

In present Systems the road signs and the speed limits are Static. We can consider some cases when there are some road diversions due to heavy traffic or due to accidents the we change the road signs accordingly if they are digitalized. This project proposes a system which has digital sign boards on which the signs can be changed dynamically.

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm

Write down any ideas that come to mind that address your problem statement.

10 minutes

Hemanth Kumar R

Using speed an acoustic sensors.
Smart signs are visible from afar because of their LED Displays.
Detecting situations of driving to avoid queue and drive accidents.
Help road accidents by using slow down signs on roads at accident prone areas.
Emergency routing based on all parameters simultaneously, the incoming, going, etc.

Dayanidhi S

Smart driver can be equipped which reduces urban/rural accidents.
There might be more effective things which may reduce accidents.
Setting general updates like accidents on road and traffic.
Automatically choose alternative path when traffic occurs.
Smart traffic signs using AI to handle traffic, which according to its nature is to reduce the accident.

Saravanan S

Superior lane markings can avoid the danger of accidents.
Detecting the weakness of the vehicle to avoid crash and drive accidents.
Regulation of heavy motor vehicles with proper road signs.
Usage of Autonomous emergency braking(AEB).
Ultra-power light blinking on the road.

Kishore K S

Lane departure warning (LDW).
Smart camera based road can be used to monitor the condition of the road.
Usage of reflectors on roads.
The signs on the road can be smart protection crossing management.
Better road engineering and infrastructure.

3

Group Ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

20 minutes

Speed limit suggestion

Notification from Front vehicle if emergency brake is applied

Implementing ADAS feature even on entry level cars

Flickering road signs using led can grab drivers attention.

Better road design

Step-3: Idea Prioritization

4

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

20 minutes

