

1

Define your problem statement

Design Intelligent Wirelessly connected smart road signs capable of displaying different speeds for different weather conditions, traffic and route traffic through the quickest and safest possible way.

🕒 5 minutes

2

Brainstorm

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

🕒 10 minutes

3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

🕒 20 minutes

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

PROBLEM

Rain makes brakes inefficient and leads to accidents

PROBLEM

Fog reduces visibility and increases the probability of accidents

PROBLEM

School Zone flags slow down traffic even when schools are closed/operating

PROBLEM

Road quality varies over time but static road signs don't

PROBLEM

Traffic diversion requires human intervention

Brindha P

Using camera to measure visibility

cloud server calculates speed for every point in map

using open weather api to get data on weather

automatic traffic diversions

sign color change based on environmental lighting conditions

Bavithra N

Camera attached to every traffic sign to monitor traffic

Schools timings set to road signs

Camera monitors road quality and speed is assigned based on road quality

Lane mapper so emergency vehicles can easily pass through traffic

Remote view capability to plan route

Anciya

AI based image processing to detect rain/wet roads

School and hospital zones dynamically set road signs speed

vehicle based speed and lane display

accident detection and diversion

Timer displaying how much time for traffic to clear out

Ezhil Mugisha N

AI based algorithms to predict weather from images

every sign post measures surrounding traffic

emergency vehicles passage and alerts

Dynamic traffic sign capable of allowing peds to cross the road

Fun things to display during red light traffic

cloud server calculates speed for every point in map

using open weather api to get data on weather

Remote view capability to plan route

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