

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID15148
Project Name	SIGNS WITH SMART CONNECTIVITY FOR BETTER ROAD SAFETY
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

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

Template



Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

 10 minutes to prepare
 1 hour to collaborate
 2-8 people recommended

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 **Before you collaborate**

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

 10 minutes

A Team gathering
Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

B Set the goal
Think about the problem you'll be focusing on solving in the brainstorming session.

C Learn how to use the facilitation tools
Use the Facilitation Superpowers to run a happy and productive session.

[Open article](#) →

1 Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

 5 minutes

PROBLEM

How might we use the speed limits and road signage in use today are static. However, under specific circumstances, the signs may be modified.?

Key rules of brainstorming

To run a smooth and productive session

 Stay in topic.

 Encourage wild ideas.

 Defer judgment.

 Listen to others.

 Go for volume.

 If possible, be visual.



Need some inspiration?

See a finished version of this template to kickstart your work.

[Open example](#) →

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm

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

🕒 10 minutes

Person 1

IOT CONNECTIVITY WITH DEVICES	The system must be safe.	The setting of phases should eliminate the conflict points to a reasonable extent.
The time setting of each phase should be reasonable.		

Person 2

The driver must perceive the traffic before action.	The pedestrian must perceive the traffic before action.	The timing for each phase should be long enough for clearing the queue.
The system must be compatible with traffic law.		

Person 4

Control system: the control design should be compatible with the traffic law.	User system: the system should be compatible with the traffic law.	Phase interaction: the system should be compatible with the traffic law.
Signs are needed for each direction, signal cycle and phase design is based on the traffic information.		

Person 3

The sign design should be compatible with the traffic law.	The control design should be compatible with the traffic law.	The control design should be compatible with the traffic law.
The sign is needed for each direction, signal cycle and phase design is based on the traffic information.		

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

GROUP 1

The driver must perceive the traffic before action.	IOT CONNECTIVITY WITH DEVICES
The system must be compatible with traffic law.	The time setting of each phase should be reasonable.

GROUP 2

The system must be safe.	The setting of phases should eliminate the conflict points to a reasonable extent.
The pedestrian must perceive the traffic before action.	The timing for each phase should be long enough for clearing the queue.

GROUP 4

Control system: the control design should be compatible with the traffic law.	The control design should be compatible with the traffic law.
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GROUP 3

The control design should be compatible with the traffic law.	Yield sign is needed in every direction, no control in major direction. Can proceed with caution.
Signs are needed for each direction, signal cycle and phase design is based on the traffic information.	Phase interaction: the system should be compatible with the traffic law.

GROUP 5

User system: the system should be compatible with the traffic law.	The control design should be compatible with the traffic law.
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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

