Ideation Phase
Brainstorm & Idea Prioritization Template
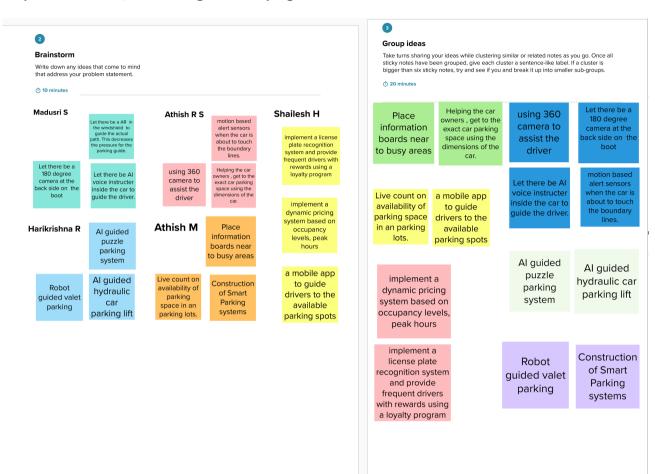
Date	10 May 2023
Team ID	NM2023TMID10156
Project Name	AI Enabled car parking using open CV
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization:

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

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
PS : Finding a parking space in metro cities is an uphill task. Some people thus prefer to take cabs, instead of their own vehicles, to avoid the hassle of searching for a parking spot and the possibly running late. Also, parking at street corners leaves vehicles unguarded from potential damage by miscreants or natural causes.

Key rules of brainstorming
To run an smooth and productive session

- Stay in topic.
- Encourage wild ideas.
- Defer judgment.
- Listen to others.
- Go for volume.
- If possible, be visual.

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm

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

🕐 10 minutes

Madusri S

- Let there be a AR in the windshield to guide the actual path. This decreases the pressure for the parking guide.
- Let there be a 180 degree camera at the back side on the boot
- Let there be AI voice instructer inside the car to guide the driver.

Athish R S

- motion based alert sensors when the car is about to touch the boundary lines.
- using 360 camera to assist the driver
- Helping the car owners, get to the exact car parking space using the dimensions of the car.

Shailesh H

- implement a license plate recognition system and provide frequent drivers with rewards using a loyalty program
- implement a dynamic pricing system based on occupancy levels, peak hours
- a mobile app to guide drivers to the available parking spots

Harikrishna R

- AI guided puzzle parking system
- Robot guided valet parking
- AI guided hydraulic car parking lift

Athish M

- Place information boards near to busy areas
- Live count on availability of parking space in an parking lots.
- Construction of Smart Parking systems

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 and break it up into smaller sub-groups.

🕐 20 minutes

- Place information boards near to busy areas
- Helping the car owners, get to the exact car parking space using the dimensions of the car.
- using 360 camera to assist the driver
- Let there be a 180 degree camera at the back side on the boot

- Live count on availability of parking space in an parking lots.
- a mobile app to guide drivers to the available parking spots
- Let there be AI voice instructer inside the car to guide the driver.
- motion based alert sensors when the car is about to touch the boundary lines.

- implement a dynamic pricing system based on occupancy levels, peak hours
- AI guided puzzle parking system
- AI guided hydraulic car parking lift

- implement a license plate recognition system and provide frequent drivers with rewards using a loyalty program
- Robot guided valet parking
- Construction of Smart Parking systems

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**

Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

- AI guided hydraulic car parking lift
- AI guided puzzle parking system
- Construction of Smart Parking systems
- Robot guided valet parking
- a mobile app to guide drivers to the available parking spots
- Let there be AI voice instructer inside the car to guide the driver.
- Live count on availability of parking space in an parking lots.
- Place information boards near to busy areas
- implement a license plate recognition system and provide frequent drivers with rewards using a loyalty program
- motion based alert sensors when the car is about to touch the boundary lines.
- Helping the car owners , get to the exact car parking space using the dimensions of the car.
- using 360 camera to assist the driver
- implement a dynamic pricing system based on occupancy levels, peak hours
- Let there be a 180 degree camera at the back side on the boot

Feasibility

Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)