

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	30 October 2023
Team ID	Team-592063
Project Name	AI enabled car parking using open CV
Maximum Marks	4 Marks


Brainstorm & Idea Prioritization Template:

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

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.

Reference: <https://www.mural.co/templates/empathy-map-canvas>

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



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.

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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 [your problem statement]?



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.

Step-2: Brainstorm, Idea Listing and Grouping

2 Brainstorm

Have each participant begin in the "solo brainstorm space" by silently brainstorming ideas and placing them into the template. This "silent-storming" avoids group-think and creates an inclusive environment for introverts and extroverts alike. Set a time limit. Encourage people to go for quantity.

⌚ 10 minutes

Hari Surya

- It is hard to find the empty space in a parking lot.
- By using the sensors, the parking lot can be monitored.
- Some parking lots are very small and crowded.

Surya Sekhar Reddy, G

- It is hard to find the empty space in a parking lot.
- By using the sensors, the parking lot can be monitored.
- Some parking lots are very small and crowded.

Aashitha, K

- It is hard to find the empty space in a parking lot.
- By using the sensors, the parking lot can be monitored.
- Some parking lots are very small and crowded.

Shakir Anshad

- It is hard to find the empty space in a parking lot.
- By using the sensors, the parking lot can be monitored.
- Some parking lots are very small and crowded.

Person 5

Person 6

Person 7

Person 8

3 Group Ideas

Have everyone move their ideas into the "group sharing space" within the template and have the team silently read through them. As a team, sort and group them by thematic topics or similarities. Discuss and answer any questions that arise. Encourage "Yes, and..." and build on the ideas of other people along the way.

⌚ 15 minutes

Two Libraries that we are going to use openCV & cvzone

If a car is leaving from the parking space then that space can be marked as Empty in real time

Using open cv Library for detecting the space in the parking lot

Complicate to find the empty space in the middle

Using Camera and Sensors can detect the empty space

the free space can be marked by green rectangle and the parked space can be marked by using red rectangle

We will keep a counter as when to keep the track for the number of free space out of total space

Keep on tracking through camera

All Parking make the vehicle entry as fast as possible

Tip
You can use the Voting system next above to focus on the strongest ideas.

Step-3: Idea Prioritization

4 Rank each task by its potential impact, then difficulty

As a group, discuss each item's potential impact. Rank them in a single row above the **potential impact** line. Next, rank each item's relative difficulty, moving them directly higher on the chart. Ensure no two items have the same impact or difficulty level.

⌚ 40 minutes