

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	Team-592328
Project Name	AI Enable car parking using OpenCV
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://app.mural.co/t/saadsabahuddin0929/m/saadsabahuddin0929/1697562188531/a7a829966ff16fde145ade28eed7804108def40e?invited=true&sender=u52cc86e8425da5bedccb8069>

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

- Team gathering**
Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.
- Set the goal!**
Think about the problem you'll be focusing on solving in the brainstorming session.
- Learn how to use the facilitation tools**
Use the Facilitation Superpowers to run a happy and productive session.

[Open article](#)

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

AI enabled car parking using OpenCV, employing AI to determine parking space availability. If the space is occupied, indicate "No space available" otherwise, if the space is unoccupied, display "Space available".

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 featured version of this template to recollect 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

Person 2

Person 3

Person 4

Person 5

Person 6

Person 7

Person 8

Person 1

Person 2

Person 3

Person 4

Person 5

Person 6

Person 7

Person 8

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

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

The free space can be indicated by green rectangle and the filled space can be indicated by using red rectangle

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

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

Two Libraries that we are going to use opencv&cvzone

→

→

→

Person 1

security should get the maximum priority

Protect user data and ensure compliance with privacy regulations

ensuring that vehicles and pedestrians are protected throughout the parking process

Person 2

it is better to have a camera in the front and back of the car for good accuracy

Parking area size and alignment details must be collected for further processing

These systems are to make parking simpler and more convenient for users, so they should be user-friendly and efficient

Person 3

Cars size may vary for every individual. Customers do space alignment may differ

There must be different parking area for cars and bikes so that we can improve our accuracy

Be result of the data collected by its systems and software. A is harder security and is compliance with privacy regulations

Person 4

Recognize free space after a car left the parking place

Once a parking slot is taken the database must update its value

Regular maintenance and backup systems are necessary to prevent future and ensure continuous operation of all equipment and all vehicles in the parking facilities

Person 5

Person 6

Person 7

Person 8

Step-3: Idea Prioritization

