

IDEATION PHASE


Brainstorm & Idea Prioritization

Date	16 November 2023
Team Id	Team-592467
Project Name	AI Enable car parking using OpenCV
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization:




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.


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 streamline and simplify the process of finding and securing parking spaces in urban areas, reducing the time, effort, and stress for drivers while enhancing overall convenience and efficiency?



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

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

10 minutes

Vivek

- Implement a sensor-based system in parking lots that communicates with the app, providing live updates on parking space availability
- Integrate augmented reality (AR) into the app to visually guide users to open parking spaces through their mobile device's camera
- Implement a dynamic pricing system to encourage drivers to choose less congested parking areas, thereby reducing traffic in popular zones
- Strategy involves forming partnerships with parking facility operators and businesses to establish a unified parking ecosystem

Sai Srujan Reddy

- Develop a platform that encourages users to share information about available parking spaces, fostering a collaborative and supportive parking ecosystem
- Create an inclusive parking solution that prioritizes spaces for differently-abled individuals and families with young children
- Design and implement smart parking management systems for efficient space allocation and retrieval, reducing the need for manual searching

Thalimahizhan

- Develop smart parking zones equipped with sensors and digital displays that display real-time parking availability
- Promote and incentivize the use of electric or hybrid vehicles by providing reserved and easily accessible parking spaces equipped with charging stations
- Implement a green parking initiative by designating eco-friendly parking spaces and increasing green spaces within parking areas

Sakthi Sorna Maheswar

- Develop a mobile app that uses real-time data and AI algorithms to predict available parking spaces and guide users to the most convenient spot
- The app will incorporate an audio-based guidance system to assist visually impaired users in finding available parking spaces
- Integrate a carpooling feature into the parking app to encourage shared rides, reducing the overall demand for parking spaces
- Develop an emergency parking assistance feature that helps drivers quickly locate available spaces in urgent situations

TIP
You can select a sticky note and hit the pencil (switch to select) icon to start drawing!

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

TIP
Add customizable tags to sticky notes to make it easier to find, browse, organize and categorize important ideas as themes within your mind.

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- Integrate augmented reality (AR) into the app to visually guide users to open parking spaces through their mobile device's camera
- Develop a platform that encourages users to share information about available parking spaces, fostering a collaborative and supportive parking ecosystem
- The app will incorporate an audio-based guidance system to assist visually impaired users in finding available parking spaces
- Design and implement smart parking management systems for efficient space allocation and retrieval, reducing the need for manual searching
- Develop an emergency parking assistance feature that helps drivers quickly locate available spaces in urgent situations
- Promote and incentivize the use of electric or hybrid vehicles by providing reserved and easily accessible parking spaces equipped with charging stations

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?

TIP
Participants can use their cursors to point at where sticky notes should go on the grid. The facilitator can confirm the spot by using the laser pointer holding the **H** key on the keyboard.

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