Ideation Phase Brainstorm & Idea Prioritization Template

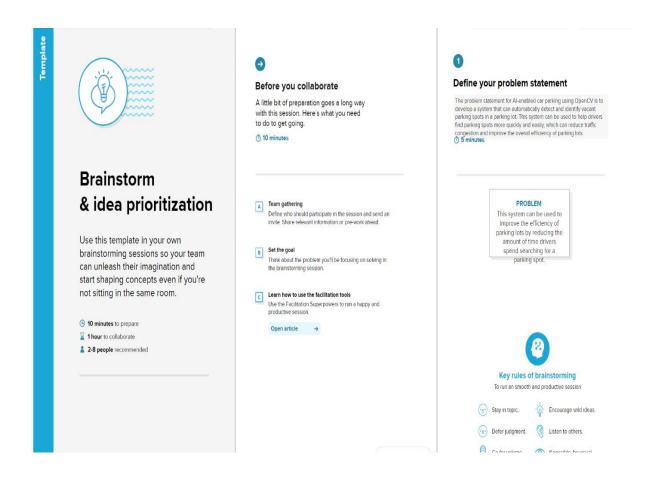
Date	27 April ,2023		
Team ID	NM2023TMID16367		
Project Name	AI enabled Car parking using Open cv		
Maximum Marks	4 Marks		

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.

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



Step-2: Brainstorm, Idea Listing and Grouping



Brainstorm

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

10 minutes

You can select a sticky note and hit the pencil [switch to sketch] icon to start drawing!

shammikumar

To create an Alenabled car parking system using OpenCV, you will need to

Collect a dataset of images of parking spots, both occupied and vacant Train a machine learning model on this dataset to identify vacant parking spots

Ramprasad

Increased efficiency:
Al-enabled car parking
systems can help
drivers to find a vacant
parking spot more
quickly, which can
save them time and
frustration

Reduced traffic congestion: Al-enabled car parking systems can help to reduce traffic congestion by reducing the amount of time that drivers spend searching for a parking spot Improved air quality: Alenabled car parking systems can help to improve air quality by reducing the amount of time that vehicles are idling while searching for a parking spot

Janarthnan

Cost: Al-enabled car parking systems can be expensive to install and maintain

Cost: Al-enabled car parking systems can be expensive to install and maintain

Privacy concerns:
Some people may
be concerned about
the privacy
implications of using
Al-enabled car
parking systems

Kishore kumar

Reduced traffic congestion: Al-enabled car parking can help to reduce traffic congestion by making it easier for drivers to find vacant parking spots. This can lead to shorter commutes and less pollution.

Increased efficiency: Alenabled car parking can help to increase the efficiency of parking lots by reducing the amount of time that drivers spend searching for vacant spots. This can lead to increased productivity and reduced costs for businesses

Improved customer satisfaction: Al-enabled car parking can help to improve customer satisfaction by making it easier for customers to find parking. This can lead to increased sales and repeat business



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.

(1) 20 minutes

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

some ideas for AI-enabled car parking using OpenCV:...

 Use OpenCV to identify parking spots in a parking lot. This can be done by using image processing techniques to detect the edges of the parking spots. Use OpenCV to track the occupancy of parking spots. This can be done by using object detection techniques to identify cars in the parking spots.

Use OpenCV to guide drivers to available parking spots. This can be done by using image processing techniques to identify the location of available parking spots and then displaying this information to the driver

Use OpenCV to provide feedback to drivers about their parking. This can be done by using image processing techniques to identify the position of the car in the parking spot and then providing feedback to the driver about how close they are to the edge of the spot

additional ideas that can be implemented using AI and OpenCV

Use Al to predict the number of available parking spots in a parking lot. This can be done by using historical data to train a machine learning model to predict the occupancy of parking spots.

Use Al to optimize the layout of a parking lot. This can be done by using machine learning techniques to identify the best way to arrange the parking spots in a parking lot to maximize the number of available parking spots

Use Al to create a virtual parking assistant. This can be done by using a chatbot or virtual assistant to provide information about parking to drivers. For example, the virtual assistant could provide information about the location of available parking spots, the cost of parking, and the best way to get to the parking lot.





Step-3: Idea Prioritization

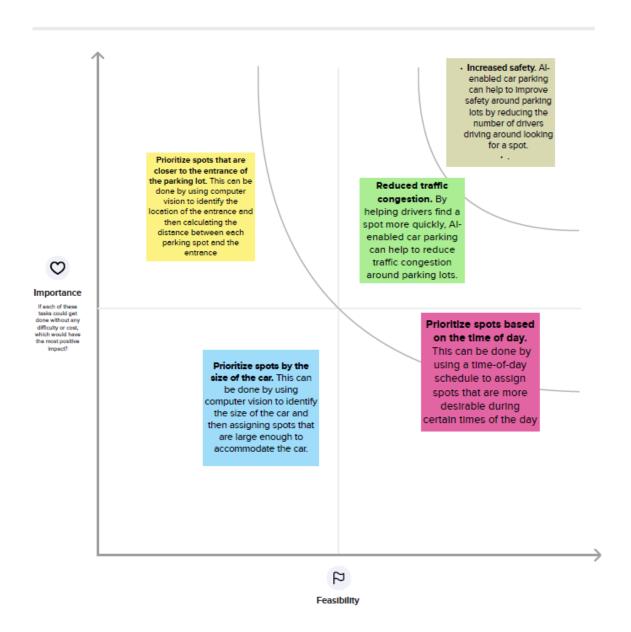


Prioritize

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.

1 20 minute

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.



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Team lead: shammikumar T

Team member1: janarthnan G

Team member2: Ramprasad r

Team member 3: Kishore Kumar J