


Ideation Phase

Brainstorm & Idea Prioritization Template

Date	18 October 2023
Team ID	Team - 592813
Team Members	Sugandhi Ninad Nilesh Aadhith M
Project Name	Project - AI Enabled Car Parking System using OpenCV
Maximum Marks	4 Marks

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

Car Parking System



Brainstorm & idea prioritization

Brainstorming different ideas and shaping concepts which will form a fundamental unit of our project


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Problem Statement


In urban and commercial areas, the scarcity of parking spaces often leads to significant inconveniences for drivers and challenges for parking facility operators. The lack of an efficient system for managing parking spaces results in frustrated drivers circling parking lots in search of available spots, leading to wasted time, increased traffic congestion, and elevated stress levels. Additionally, parking facility owners face difficulties in optimizing space utilization, managing peak hours, and ensuring a positive customer experience. To address these challenges, there is a pressing need for an AI-enabled car parking system utilizing OpenCV technology. This system must be capable of real-time monitoring and analysis of parking spaces, accurately detecting available spots. By leveraging the power of AI and OpenCV, this solution aims to revolutionize the parking experience, alleviating the frustrations of drivers and improving the overall management of parking facilities.


PROBLEM


Difficulties faced by the drivers and parking facility owners for finding a suitable parking spot and managing the parked cars.





Solutions aimed by this project


 Real time parking space detection

 User Experience enhancement

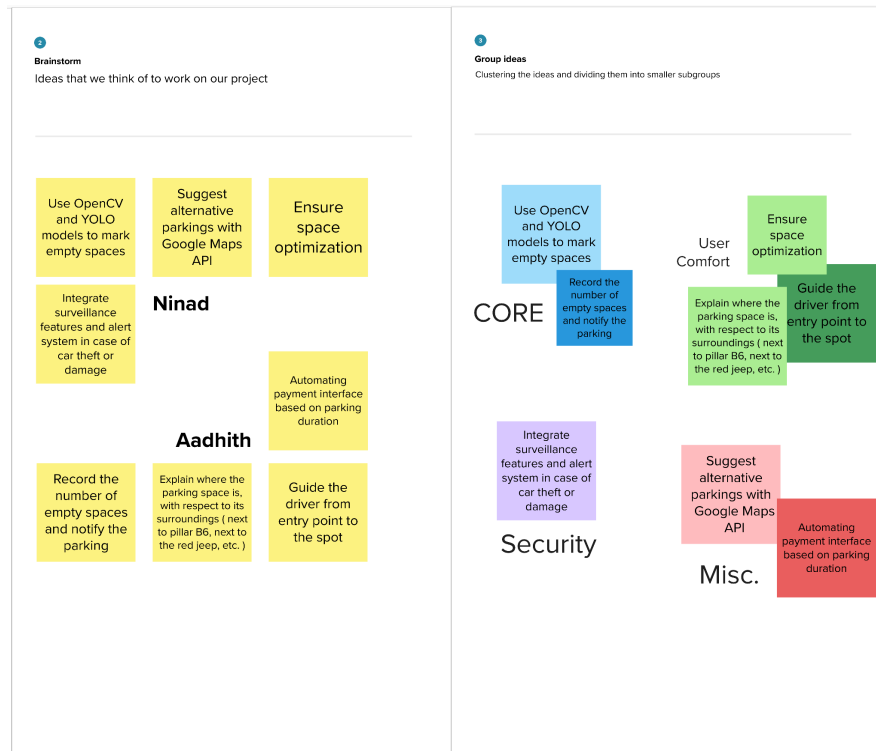
 Optimized space usage

 Dynamic parking guidance

 Security and Surveillance

 Scalability

Step-2: Brainstorm, Idea Listing and Grouping



Step-3: Idea Prioritisation

