Project Design Phase-I
Proposed Solution Template

Date	06 May 2023
Team ID	NM2023TMID17127
Project Name	AI enabled car parking using open CV

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S. No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	AI-enabled car parking using OpenCV is a computer vision-based project that aims to automate the parking process. The project involves developing an intelligent system that can identify empty parking spaces and it gives the count of available parking spots
2.	Idea / Solution description	We can use OpenCV do to one time mapping of each parking spot, once the location of each parking spot is identified, deep learning can be used to make a prediction on whether it is vacant or not.
3.	Novelty / Uniqueness	Car parking system is created using OpenCV in which image processing is done much faster and accurate.
4.	Social Impact / Customer Satisfaction	Compared to conventional parking garages, Automated Parking Systems are inherently much safer and more secure because they remove driving and pedestrians from the parking area.
5.	Business Model (Revenue Model)	It's effective at resolving parking issues. In addition, it provides automatic billing, as well as eliminating traffic congestion. The business model behind smart parking is maturing now to a point where it is achievable, affordable and beneficial to a city
6.	Scalability of the Solution	The system presents the details of vacant parking areas nearby, and reduces the market problems related to illegal parking in the area. It was intended to meet the requirements of controlled parking that offers downhill parking techniques to the authorities