

**Project Design Phase-I**  
**Proposed Solution Template**

Date	09 May 2023
Team ID	NM2023TMID01151
Project Name	AI Enabled car parking using open CV

**Proposed Solution Template:**

S.No.	Parameter	Description
1.	Problem Statement	Once a car enters a parking garage followed by a parking space, a ping ultrasonic sensor will then be able to determine if a car is parked in the space or not.
2.	Idea / Solution description	AI-based smart parking is an innovative parking solution that leverages data from different devices like sensors and cameras to form an AI-driven parking management system. These devices are either embedded into the parking lot or placed in close proximity to the parking lot to detect the availability of parking spots.
3.	Novelty / Uniqueness	Occupancy detection : Whether a particular parking place is occupied or not (in Real-Time)  Statistics on your fingertips : Customized stats as per your requirements on the go.  Automatic car license plates recognition : Automatic Car's license plate recognition using efficient OCR integration.
4.	Social Impact / Customer Satisfaction	Controls pollution and vehicle congestion. Convenient, cost-effective and faster mode of parking system. Increased safety and security
5.	Business Model (Revenue Model)	Revenue will be generated from the users of the application when they park their cars. Revenue will be collected from the vendors who deploy our system.
6.	Scalability of the Solution	This could be supplied to various local and international outlets also to governmental organization's for environment monitoring and control. This increases revenue utilisation as well as exposure.