

PROJECT TITLE:

**SMART PARKING SYSTEM**

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PROJECT INTRODUCTION

**A smart parking system is an intelligent parking management solution that utilizes advanced technologies such as data analytics, monitoring systems , PHP / SQL and optimizes the usage of parking spaces in a city. The system works by collecting real-time data on parking space occupancy and availability and using this information to guide drivers to choose among available parking spots either by digital displays or manual systems. The system can assist in parking fee payment, monitor parking duration, and choose categories for services of their choice. Categories are further divided into registered and unregistered vehicles as a policy.**

PROJECT FEATURES

A smart parking system should have the following features:

* Parking space monitoring: The system should be equipped with cameras or sensors that can detect whether a parking spot is available or occupied in real-time.
* Payment and billing system: The system should allow for easy payment of parking fees i.e by cash .
* Registered / unregistered Vehicles: The System will show either the car is already registered with the company or not. Thus Bills and services will be different in both terms.
* Data analytics/ reporting: The system should be able to collect and analyze data on parking duration to optimize parking management and generate bills.
* Security and safety: The system should ensure the safety of parked vehicles and provide security features such as surveillance cameras and alarms.

Overall, a smart parking system will provide a seamless and convenient experience for drivers while optimizing parking space usage and availing services such as oil changes and car washing.

TOOLS FOR IMPLEMENTATION

* Html/CSS
* Javascript
* PHP
* SQL