

Problem statement: Parking Management software for efficient parking in Coimbatore

Solution Overview:

Ø Automated Smart Parking Systems:

Utilizing Arduino NANO and IR sensors, our system will display the real-time availability of parking slots on an LCD screen. This feature empowers drivers to make informed decisions about where to park their vehicles efficiently.

Ø Parking Space Reservations:

Drivers can reserve parking spaces in advance, reducing the time spent searching for parking. This reservation feature enhances convenience and ensures a smoother parking experience.

Ø Security Check:

The system will include security measures to detect unauthorized vehicles or individuals occupying parking spaces, ensuring a secure and organized parking environment.

Unique Selling Points (USPs):

- Increased foot traffic for businesses: Efficient parking facilities attract more customers, leading to increased patronage for shops and malls.
- Reduced stress for drivers: A streamlined parking process enhances the overall customer experience and reduces stress associated with finding parking spaces.
- Modernized and Innovative: Our solution introduces cutting-edge parking management systems, reflecting positively on the image of the businesses implementing them.

Target Audience: Customers of malls, complexes, and various people gathering spots in Coimbatore.

Implementation Plan:

- Develop and deploy the parking management system using Arduino NANO and IR sensors.

- Integrate the system with LCDs to showcase real-time parking availability.
- Implement a user-friendly interface for parking space reservations and payment processing.

Working Model Video:

[Working Model](#)

