



VEHICLE PARKING MANAGEMENT SYSTEM

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INTRODUCTION

Managing parking is a daily problem in cities and businesses. Using manual records to keep track of vehicles can often cause mistakes, delays, and make it hard to find vehicles. To fix this problem, it is suggested that a digital app be made to improve the process of registering people entering and leaving, which will make better use of the space that is available. This system helps make things more organized inside, cut down on mistakes made by people, and make it easier to keep an eye on the flow of vehicles.

EXPERIMENTS

Currently, the project is in the initial construction and testing phase, focusing on:

- Validating the vehicle registration flow.
- Verifying the update of space status.
- Ensuring a functional and responsive design for various devices.

Preliminary results show stable performance and a clear user interface.

GOAL

Develop a basic application that records the entry and exit of vehicles and keeps an updated control of available space. The goal is to improve the operational management of a small or medium-sized parking lot, optimizing time and reducing human errors.

PROPOSED SOLUTION

A web application with an intuitive interface is proposed to:

- Record license plate, entry, and exit times.
- Track the number of occupied and available spaces.
- Display the parking lot's status in real time.

EXPECTED RESULTS

The application is expected to improve parking lot organization by providing a more accurate digital record, reducing errors and waiting times. The system will enable real-time visual monitoring of occupancy, facilitating daily management.

CONCLUSION

The system's development shows that a simple technological solution can significantly improve parking management. Its implementation enhances operational efficiency and modernizes processes without requiring complex infrastructure.

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