

SmartPark – Parking Management System

Project Overview

SmartPark is a front-end web application designed to provide a modern and efficient solution for locating and reserving parking spaces. The project demonstrates the concept of a smart parking system that enhances urban mobility and reduces traffic congestion caused by parking searches.

Objectives

- Provide real-time visibility of parking availability
- Improve user convenience through an intuitive interface
- Support smart city infrastructure concepts
- Demonstrate front-end development using HTML and CSS

Technologies Used

HTML5
CSS3
Single-file implementation

Key Features

- Real-time parking availability display (conceptual)
- Booking overview with slot duration details
- Parking owner listing and rate information
- Location-based visualization (conceptual)
- Dashboard outline for booking history

Project Structure

The project is implemented as a single HTML file with embedded CSS, making it easy to deploy and understand.

How to Run

1. Download the HTML file.
2. Open it using any modern web browser.
3. No additional setup or server is required.

Future Enhancements

- JavaScript-based booking system
- Interactive map integration
- User authentication and admin dashboard
- Real-time sensor-based updates

Conclusion

SmartPark serves as a foundational prototype showcasing the potential of smart parking solutions. It can be extended into a fully functional system using advanced web technologies.