

Project Report

Vehicle Parking App - V2

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The Vehicle Parking App - V2 is a web-based system designed to manage multiple parking lots, parking spots, and vehicle reservations. The application features role-based access for admins and regular users. Admins can add and manage parking lots and view reservation summaries, while users can book and release parking spots in real time. The backend is powered by Flask, while the frontend is developed using Vue.js.

Technology Stack:

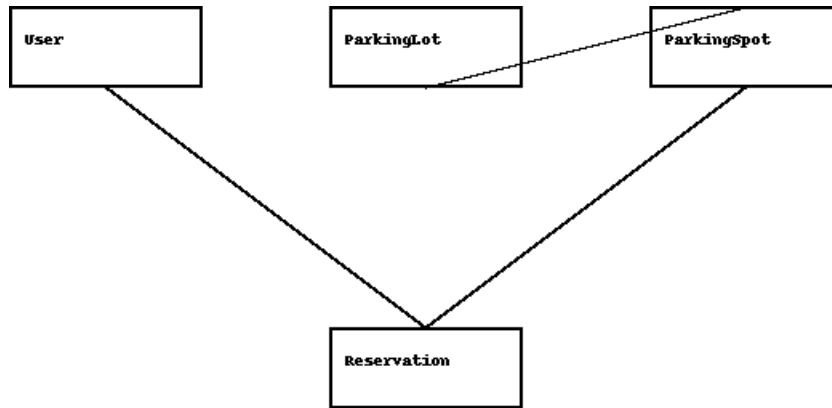
- Flask (Backend API)
- Vue.js (Frontend UI)
- SQLite (Database)
- Redis (Caching)
- Celery (Asynchronous Task Processing)

Key Features:

- Role-based login/signup (Admin/User)
- Add/Edit Parking Lots
- Add/Edit Parking Spots
- Book and Release Parking Spots
- View Reservation History
- Summary Statistics with Charts

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ER Diagram:



Video: https://drive.google.com/file/d/1Q5_wkgk42p6AgGAsq01OohQWYhx-C-JD/view?usp=sharing