

Why ZippyPark

Today's parking garages are:

- inefficient
- cost ineffective
- impersonal
- difficult to manage

To combat these issues, ZippyPark provides customers and owners with:

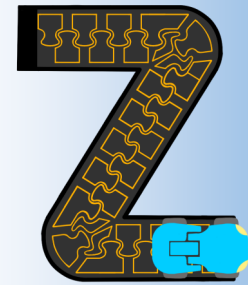
- reservation & walk-in system
- adjustable pricing scheme
- point reward system
- managerial hub



ZippyPark

Demo 1: April 1, 2020

GitHub: <https://github.com/atmikapons/ZippyPark/>



ZippyPark

An optimized automated parking garage.

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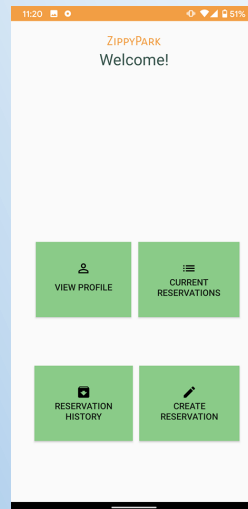
What is ZippyPark?

ZippyPark is an optimized automated system under which parking garages can organize parking appointments and direct customer parking. The goal of such a system is to increase efficiency and maximize profits by reducing traffic within the garage implementing dynamic pricing system. ZippyPark also allows a manager to remotely oversee the garages day-to-day operations through a user-friendly managerial website with basic administrative functions.

Mobile App

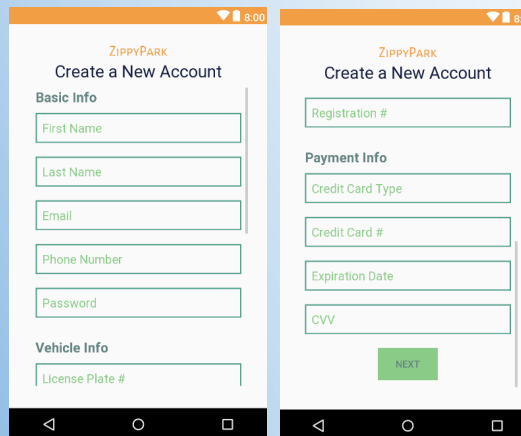
The mobile app provides customers with the ability to create an account through which they can:

- update their profile
- create, edit, and cancel reservations
- view and trade-in points for rewards



Mobile app welcome screen where users can be directed to the following pages:

- view profile
- current reservations
- reservation history
- create reservations



Account creation page for new users.

Managerial Website

Managers of the garage can oversee the garage operations and perform basic administrative operations on the managerial website. Such operations include:

- adding, editing, and deleting customer profiles
- editing and deleting reservation
- adjusting pricing system
- adjusting point reward system

The managerial website also provides an overview of the parking garage's statistics for various periods of time.

Show entries Search:

First Name	Last Name	Barcode	License Number	Points	Select
Jane	Doe	12345	ABC123	10	Update Delete
John	Doe	122314	2AS3R4	20	Update Delete
Johnny	Appleseed	3124	AAA111	50	Update Delete

Showing 1 to 3 of 3 entries Previous **1** Next

[Add Customer](#)

Software Engineering Team 2 Spring 2020

Customers page of managerial website showcasing add, update, and delete features.

Garage Sensor

A combination of hardware and software allows the garage sensor system to monitor occupancy of its spots. This is utilized to track customer entrance and exit times for pricing and reservations.