

## Why ZippyPark

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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

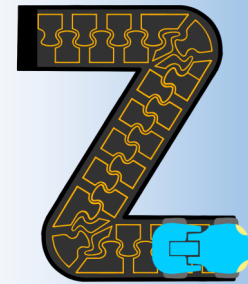


## ZippyPark

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Demo 2: April 29, 2020

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



## ZippyPark

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*An optimized automated parking garage.*

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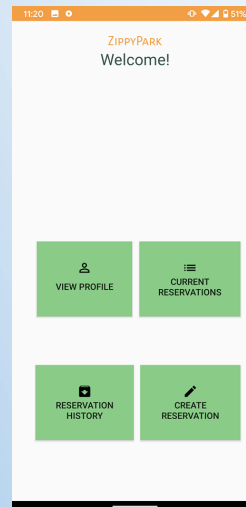
## What is ZippyPark?

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
- view past registrations



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

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

## Garage Sensor

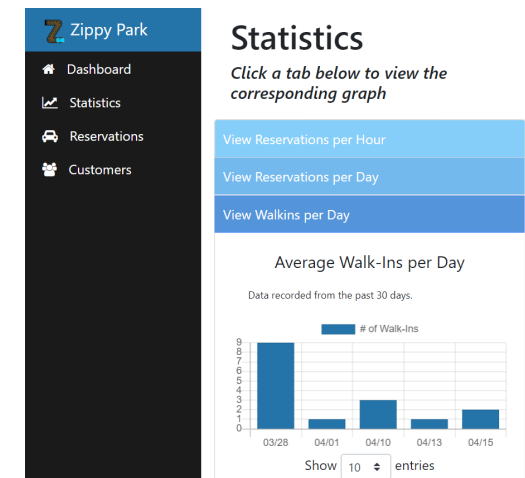
A combination of hardware and software allows the garage sensor system to monitor occupancy of its spots. This is utilized to track customer entrance and exit times for pricing and reservations.

## 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

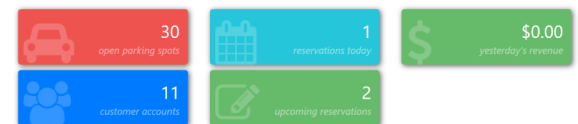
The managerial website also provides an overview of the parking garage's statistics for various periods of time. Basic garage



*Statistics page of managerial website showcasing one example chart*

## Dashboard

Today is Apr 24, 2020



*Manager dashboard displaying basic garage information such as number of open parking spots and the previous day's revenue*