

## Parking Made Easier

This investment provides a new method for parking that will increase the efficiency of your parking garage by:

- Reducing traffic within the parking garage
- Implementing a smart pricing system to attract customers
- Allowing customers to make reservations online up to 24 hours in advance
- Providing a real time visual interface that will allow customers to select their preferred parking spot

### **AutoPark**

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<https://sites.google.com/a/scarletmail.rutgers.edu/parking-garage-automation/>

# AutoPark

Group 3



**100% Automation**

## Overview

The majority of modern parking garages have inherent flaws that cause them to be inefficient. A recent study indicates that drivers spend an average of 17 hours per year looking for parking and approximately \$97 per driver<sup>1</sup>. This situation is only exacerbated during peak hours, when a high influx of cars causes congestion in parking garages, resulting in more time and money wasted on looking for parking. Many drivers are also unsatisfied with the flat rate pricing system, where they are charged a fixed hourly rate regardless of the time of day. Additionally, a majority of parking garages do not have a system that lets their customer keep track of how long their car has been parked for and how much they will have to pay when they leave. Along with this, parking garages also lack a security system that helps ensure the safety of the customers' cars. In metropolitan cities, parking garages are often located in unsafe areas, where anyone can enter and leave the garage regardless of whether they are a paying customer or not.

## AutoPark

Our goal is to provide a parking garage system which will completely eliminate the need for employees or attendants.

Parking garage managers will have access to their websites as administrators and be able to:

- Override pricing options
- View/edit reservations
- Control which spots are usable for ad-hoc parking

Along with customizability for garage managers, we also provide many useful features for customers, including the ability to view and reserve spots on the go.

## New Features

One of the main features of this project is the smart pricing system, which will calculate parking rates based on various factors, such as:

- Time of day
- Spot availability
- Average prices nearby
- And more!

The smart pricing system uses publicly available real world data in order to find the best rates to increase revenue and attract new customers.