

CP470 Project Proposal

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Project Statement

Demand for parking is steadily increasing alongside the rising growth rate of vehicle registrations, although supply is not following the same trend. Due to this, parking in heavily populated areas tends to be a significant inconvenience, while many reserved parking spots remain empty for long periods of time. Our app aims to connect drivers in need of parking to hosts of parking vacancies with a mutually beneficial solution.

Project Objectives

The main objective of our app is to create a more convenient, reliable, and affordable alternative to parking. Drivers will be able to quickly locate parking availability close to their desired location while also being able to save money when compared the rates of other parking solutions. Hosts can post their parking vacancies whenever they're available, generating passive income from an otherwise unoccupied spot. Overall this will increase the sustainability of parking and maximize the utilization of parking space.

Stakeholders

Our user demographic consists of those in need of parking and those offering parking spaces. Although they aren't mutually exclusive, for the purpose of this document they will be described separately in order to demonstrate the average user experience. Users in search of parking will be referred to as "drivers" while users that post their parking vacancies will be referred to as "hosts". A drivers intention of using the app is to find fast, reliable, and inexpensive parking. Hosts have available parking vacancies that they intend to generate monetary value from while not in use.

Project Deliverables

This project intends to deliver the following features:

- Login GUI that prompts the host to login on app launch
- Map interface similar to Uber's main page, in which drivers will be able to see parking spaces available near their current location or search for a specific location to find present or future availability.
- A button connected to the main page that will connect hosts to a postings page. This page is where hosts can create new posts as well as view past posts that may require changes. Hosts can edit settings such as scheduling availability, pricing, or deleting the post.
- Banking interface that allows users to connect their preferred deposit and withdrawal methods to ensure that the rates of parking rents are automatically processed to each of the participating parties.