

Topic: Parking Space Finder App

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Problem Background:

- A very common problem when we arrive to a place where there's stacks of people, it's to find at least one parking slot for our vehicle.
- Looking for a parking slot in a very large and stacked place can take time and a lot of patience.
- There's no well-known application for finding an open parking slot in an area compatible with every place we go.

Target:

- Facilitate the task of finding a parking slot.
- Save customer's time.
- Reduce the risk of accidents.
- Reduce vehicle agglomeration.
- Reduce carbon emissions that vehicles cause while driving around looking for a parking slot.

Causes:

- The more vehicle traffic in a certain area, the less parking slots will be available for each of them.
- The fact that the most common way of transportation are vehicles that require large spaces to parked on.
- By the vehicle agglomeration and impatience of drivers, parking lots are one of the top places where most vehicle accidents occur.
- The amount of time spent on finding a parking slot when you get to a certain place.

Countermeasures:

- Try to develop the app as interactive and intuitive as possible.
- With GPS technology, the user will be able to see available parking slots near the user, or in a certain area.
- By implementing traffic meters, alert the user about very concurred areas before getting there.
- After getting parked in a before-available parking slot, the user will mark the parking slot as taken (non-available). When its time to leave, mark it as available, notifications will be sent for reminders of this.
- Possible implementation of sensors in each parking slot to detect if a vehicle is there, just so the user doesn't have to worry about marking the parking slot as available or unavailable. Not an official countermeasure yet.

Check/Evaluate:

- Find a way to identify parking slots in the most areas possible, not just certain places/establishments.
- A factor that will determine the project's success is user's commitment to do his part to get used to the dynamic of the app. Can be investigated in surveys
- By doing surveys, know people's opinion on this idea and how practical will it be on their day by day.

Act/Standardize:

- For a fixed amount of time, do constant surveys to keep track of customers mood on the app and take in consideration their suggestions to improve.
- With the idea fully conceptualized, it can be a great tool to have and will for sure take care of the problem we always have present when we arrive to a place (college).
- Take care of bugs the app can have. The main goal is to make it functional.