

# MinesPark

DAAM HACKATHON FALL 2019

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[https://github.com/Ryanf55/mines\\_parking\\_hack](https://github.com/Ryanf55/mines_parking_hack)

# Problem







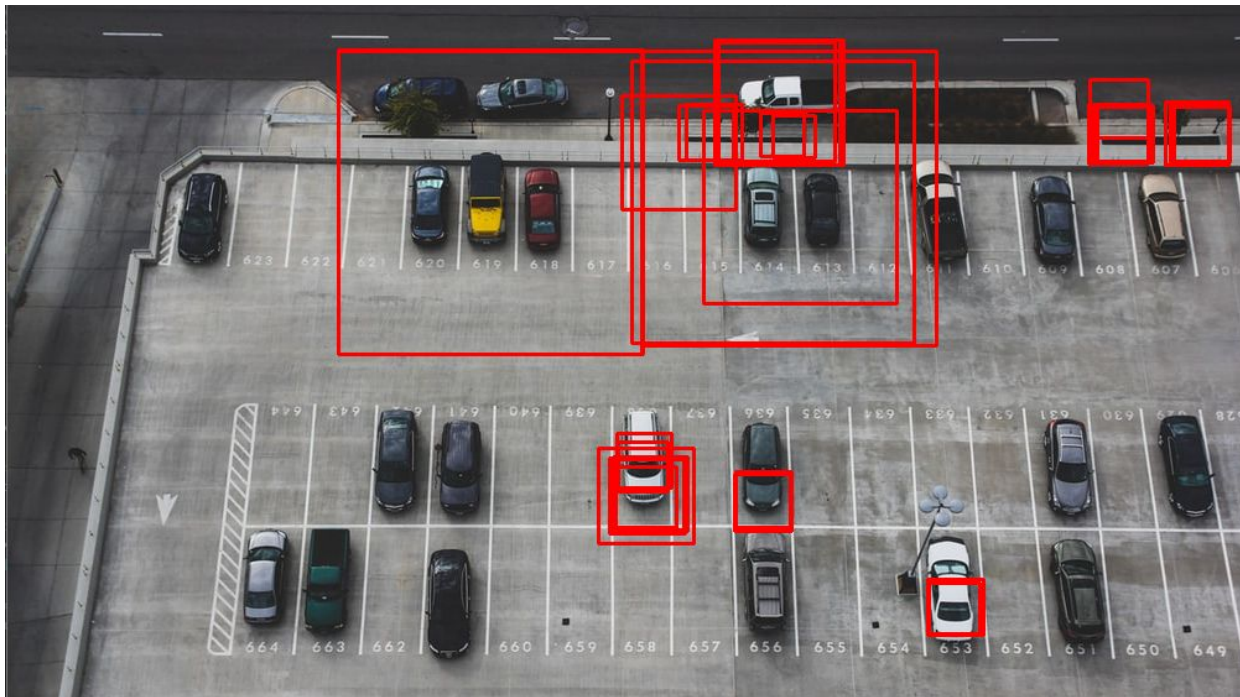
# Environmental Impacts

- Reductions in student drive times searching for parking spots will lead to lower Carbon Dioxide emissions
- For every 10 minutes a car engine is off, we prevent one pound of Carbon Dioxide from being released

# Existing Solutions



# CascadeClassifier Using Pre-Trained Classifier - Garbage



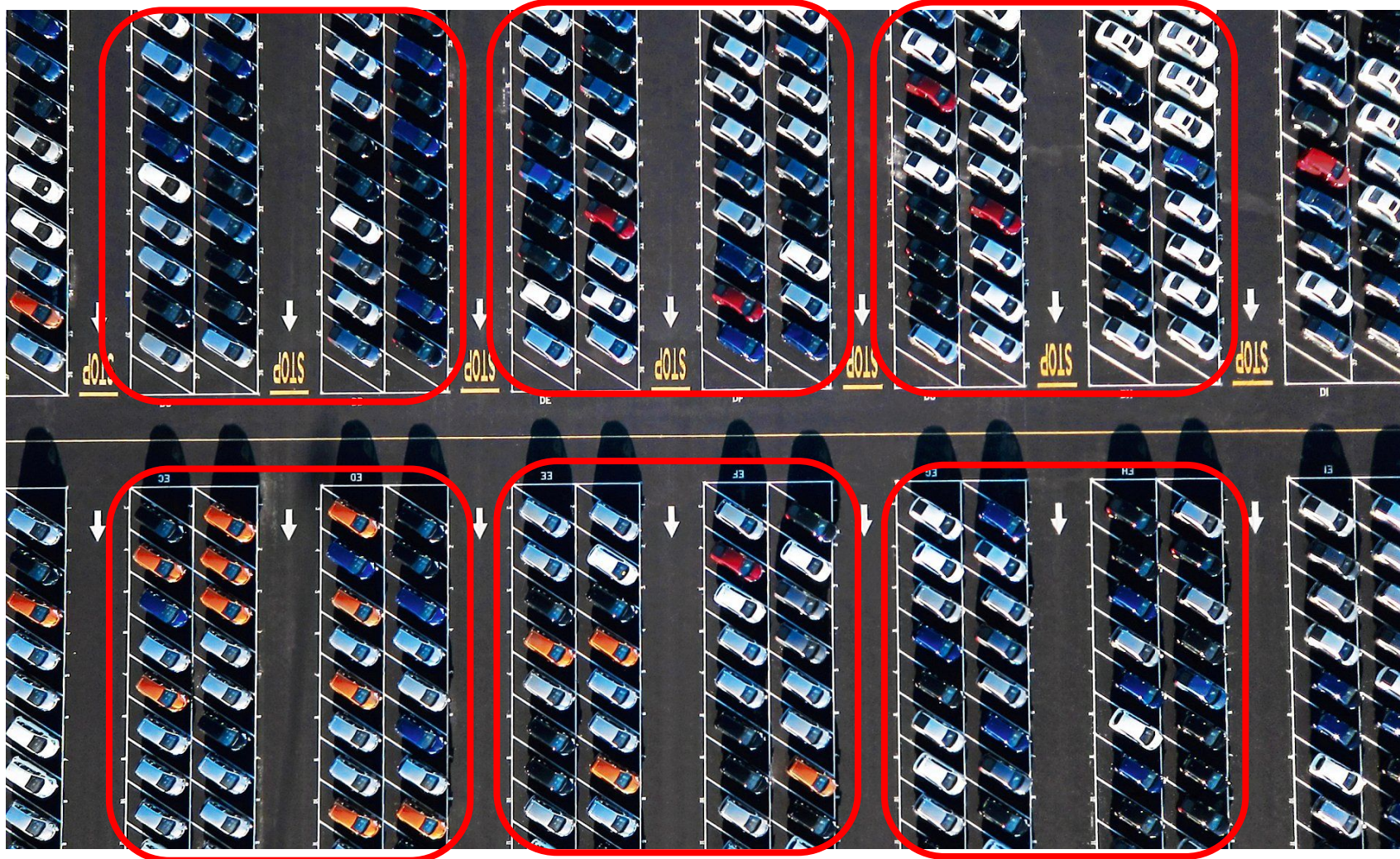
# Our Solution



# Uniqueness







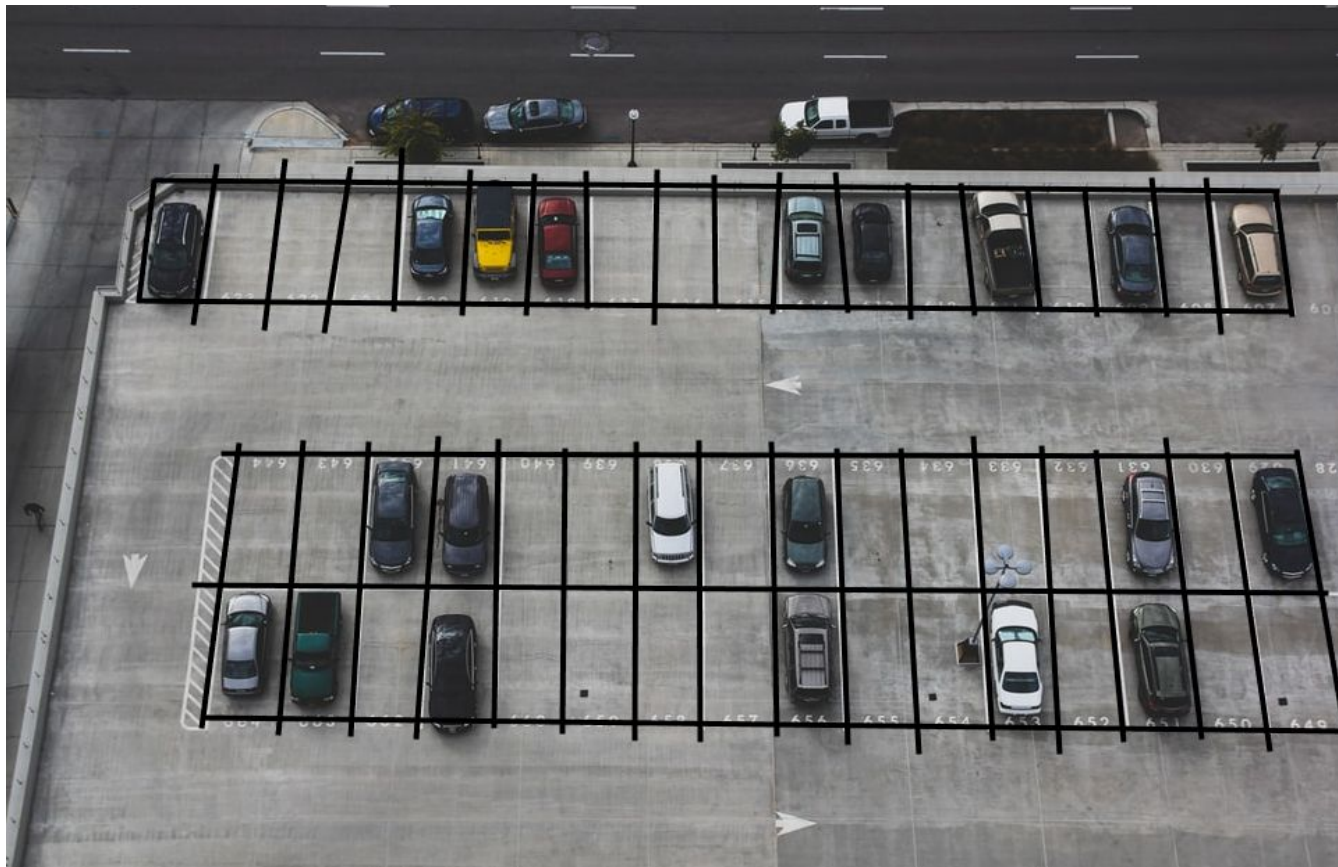
# Technical Solution



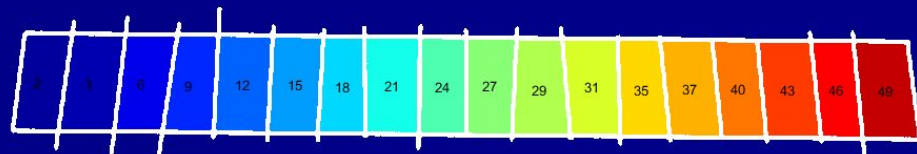
[illegible]



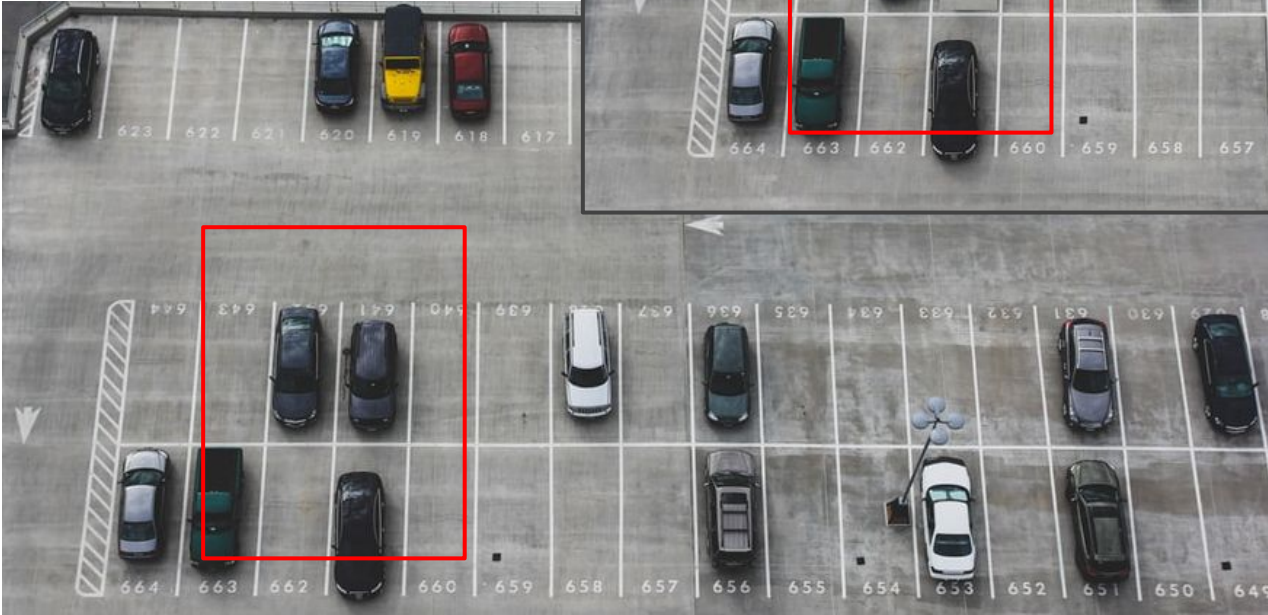
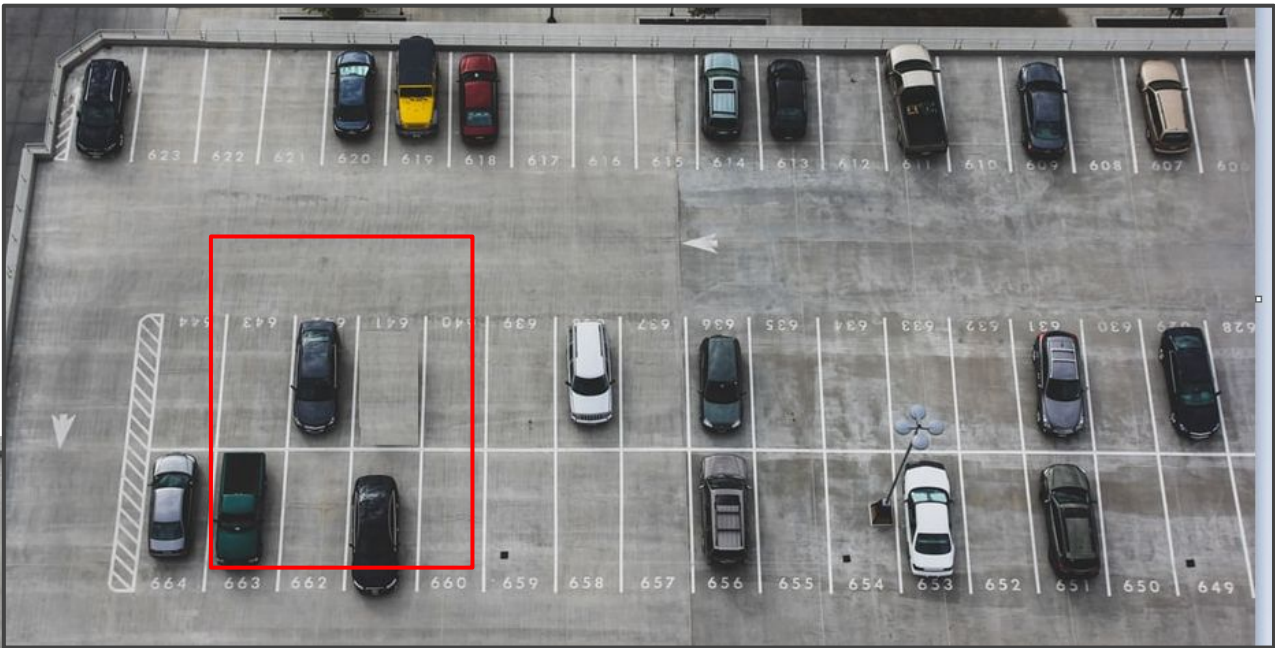
# Setting Parking Boundaries



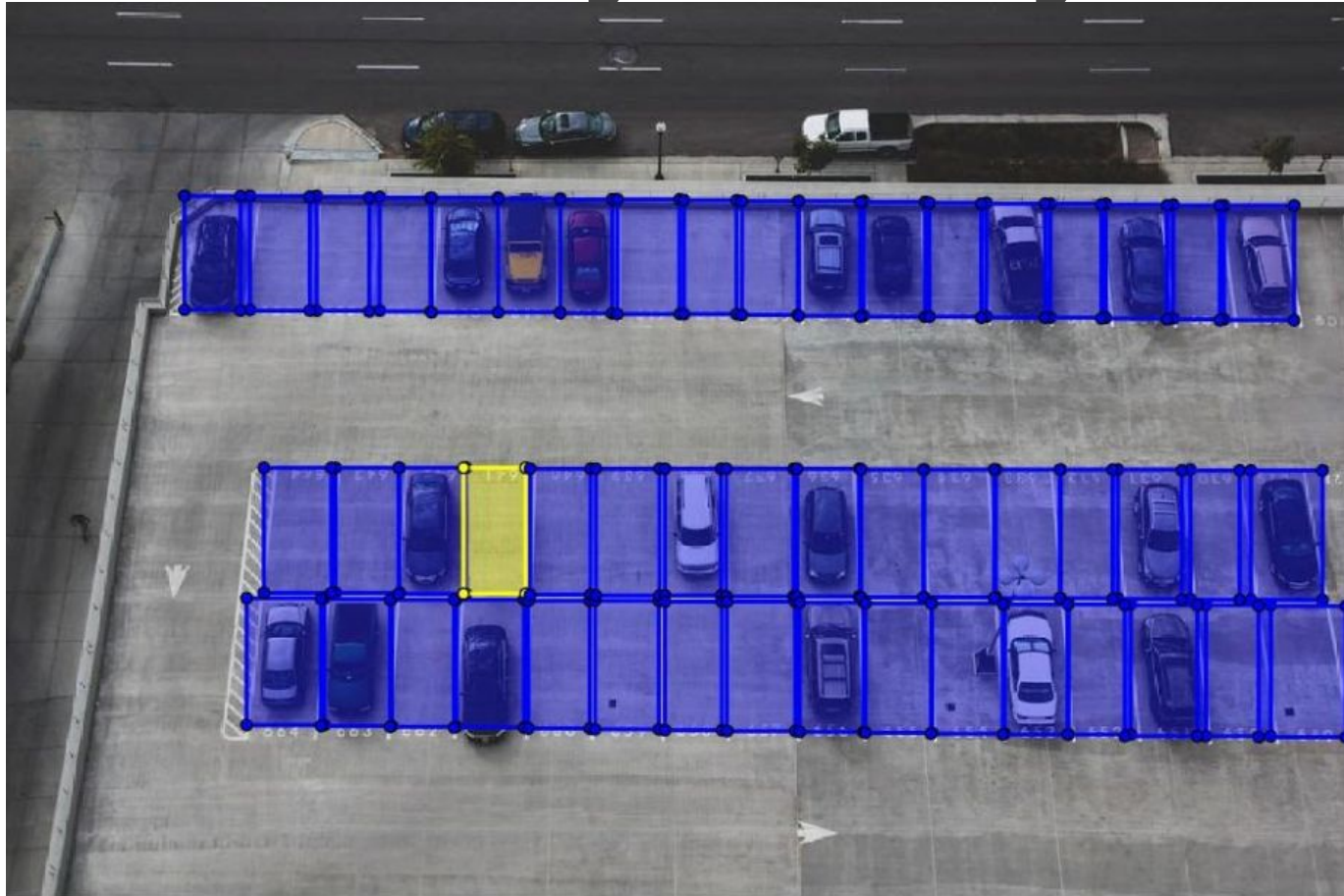
# Assigning Spot ID's



# DataSet



# Visualizing State Change





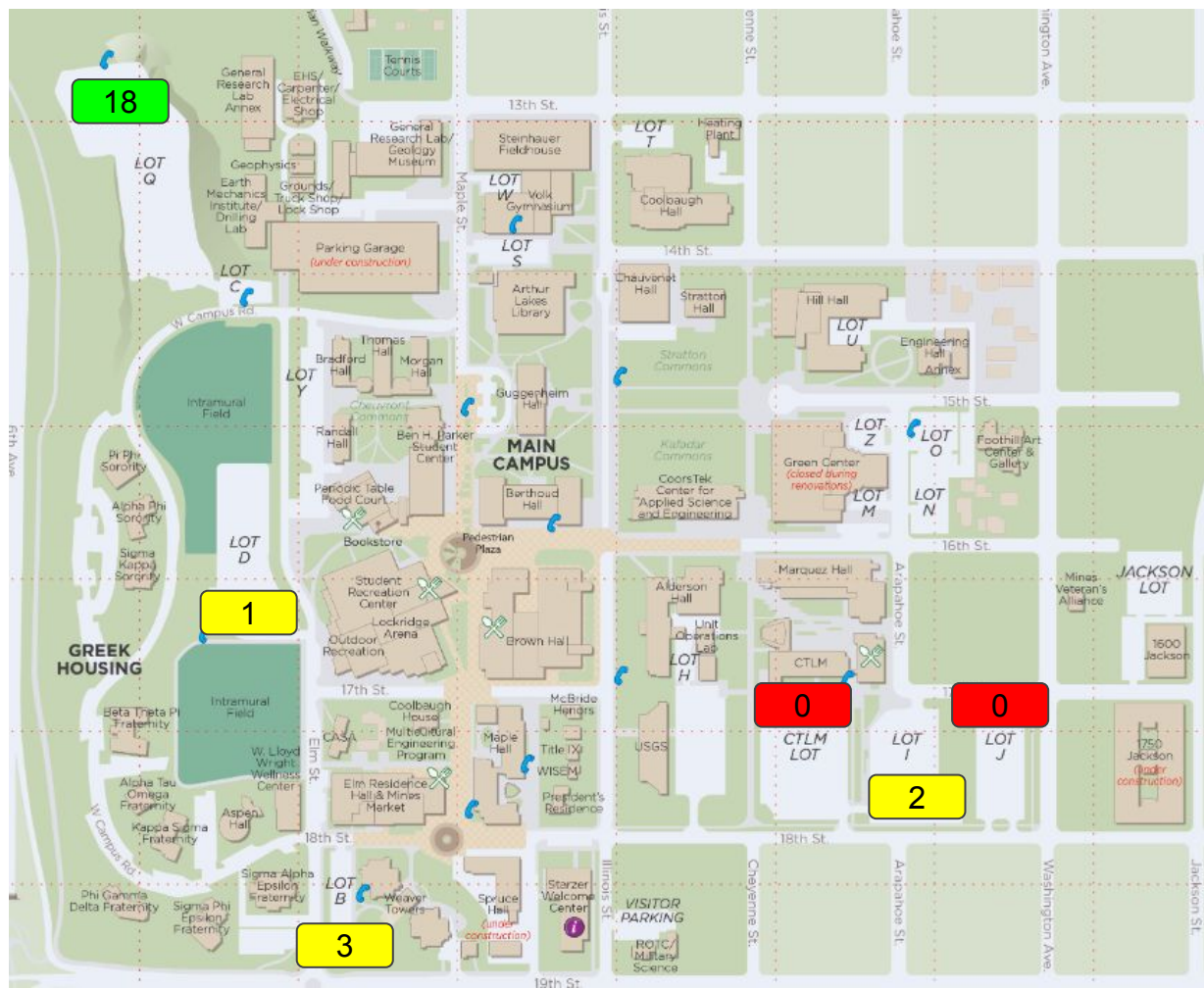
# Detecting Spot Occupancies

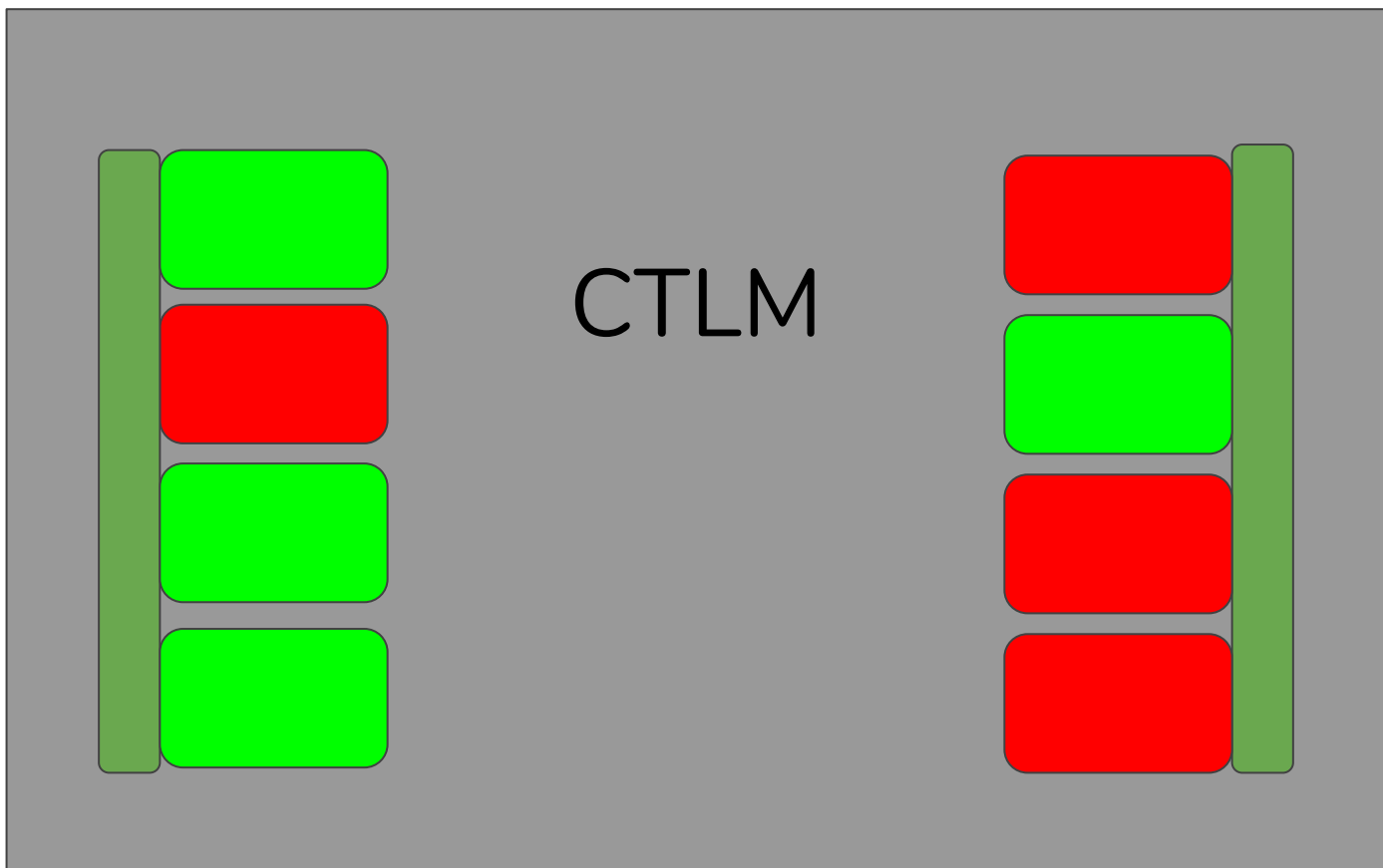




# Product Mock-Up







# Next Steps





# Expansion

- Use data from app to track typical parking lot occupancy on specific times and days
- Build recommendations on which lot to park in based on time and day

# Thank You!

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# Questions?