CSCE 190

Assignment Name:
Group Name: CSCE 190 Group #1

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Problem Statement:

Parking on campus can seem near impossible at times. The difficulty to find a spot can lead to wasted time, tardiness to class, traffic jams, and unnecessary added stress to college students' busy days.

Who is experiencing this problem?

College students who commute to class everyday as well as faculty and staff who reality on driving as their only way to work.

What is the problem?

Students, faculty and staff who rely on finding a parking spot could not find one in time and as a result become late to class or their job. This is a problem because people already have stressful lives and adding to that stress is never a good thing. Students, faculty and staff could also face consequences for arriving late. People having to circle around for spots might also create unusual traffic patterns that could possible effect the whole campus

Where does the problem present itself?

This problem presents itself wherever parking is somewhat limited and there are a large number of people who need those spots at the same time.

Why does it matter?

Being to class on time sets students up for success and knowing which parking lots have available spots would make their lives less stressful and for a college student having one less thing to worry about can be very beneficial. For faculty and staff, who already put so much time into making sure that students are supported and have everything they need for success, having the knowledge of where to park and the availability of parking will make accommodating students that much easier. The safety of students could also benefit because students who aren't able to find spots and know that they are late to class won't be thinking clearly which could possibly put those around at risk. If we were able to eliminate the uncertainty of finding a spot it would benefit almost every aspect of college life.

features

search location for open spaces	location tracking	watches the train	faculty discount	classroom building directions from garage/parking	connects to Siri/phone automations?
self reporting wait times	messaging system?	mapping different garages	shows if there is heavy traffic	sort spaces by how close they are	for meter and student garages
showing the user the closest lot to the building they're headed to	free?	real-time map of area	enter time of class to know when to leave and where to park	Notifications if a lot that a user usually uses is completely full	
GPS to parking space	have an option to show all available spots on campus	notifies what time to leave to destination	On-demand campus ride share	easy layout on app	

user

Honor System	reserve spots with points
	Free for USC affiliated people
Sign in with USC email	
	rewards for self reporting
shows your specific car model on map	
	GPS tracks your location

conditions

for only use student/staff

put sensors in parking spaces

self-reporting parking required

collar with the university

premium membership payments

allow access to user's location

VERIFICATION PROCESS!!!

membership

predicts when sports are open

bookmark certain sports or spaces

cute little avatar

membership for reserved spots

ad free :)