

The logo for UniPark features a large, stylized green letter 'U' with a small green circle above its right side. To the right of the 'U' is the word 'niPark' in a bold, black, sans-serif font, where the 'i' has a small black dot above it. Below 'niPark' is the text 'UX Case Study' in a smaller, grey, sans-serif font.

UniPark

UX Case Study

Kyle Oliver
Jay Hurst
Mia Than
Charlie Chernawsky

SUMMARY

Unipark is a dedicated mobile application that helps university goers easily find and pay for parking. By allowing those who use the app the ability to reserve their spot ahead of time, UniPark offers them the most enjoyable parking experience.

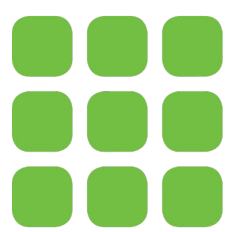




GOALS

Create an all-in-one application that revamps parking on college campuses. In order to do that, UniPark provides real-time information to accommodate users on spots that fit their needs. As well as, giving them the choice to reserve , extend their parking session and provide driving directions within the app.

COMPETITION



payby
phone



SPOT
HERO

PAYBYPHONE

An app that allows any driver parking in a fare required space the option to pay through credit card via the use of their phone. This is a lot more convenient than inserting cash into a parking meter. PayByPhone is our biggest competitor, however we stand out from them by allowing the user the ability to see which spaces are open or vacant on our interactive map.



PARKAM

Parkam uses security cameras to locate parking spots and allows the user to pay for them within the app. Parkam also features real-time tracking to predict which spots will be open by the time a driver arrives. It offers a real time video surveillance to see which spots are available and the size of the spot. Since it is not US based, we see them as one of our indirect competitors. They also are a general parking system, whereas we focus on university parking.



SPOTHERO

SpotHero is a digital marketplace which connects drivers to nearby parking lots and garages. It is offered in 300 cities in the USA and Canada. Similar to Unipark, Spothero offers a map for users to interact with. However, it does not show which sports are open in the lot, it simply shows you which lots and parking garages are currently offering parking.



**SPOT
HERO**



DIFFERENTIATION STRATEGY

Product Uniqueness. While there are apps that allow you to pay for and reserve parking spots. There is no app that allows you to see the availability and capacity of parking lots. On top of this, our app will look and feel sleek, concise, and familiar. There will be minimal buttons and pages allowing our user's to have a simple and intuitive experience. Since the main audience is drivers, we do not want them to have to go through many screens.



USER RESEARCH

With the goal of understanding our **user needs**, we chose to implement the qualitative **research approach**. We recruited 12 individuals who are involved with activities on UM campus and who might be interested in such a product. Our mission was to broaden our horizons by interviewing those of **varying ages**, from 19 years old students to 46 years old staff.

USER PERSONAS



JOHN LEVY

MAJOR

Finance

HOMETOWN

Morristown, NJ

AGE

21

SCENARIO:

John is a finance major who lives 15-minutes off campus. He drives a 2017 Toyota Camry, a normal sized sedan. He is a student manager for the University of Miami's men's baseball team. As well as his sporting commitments, John is also very busy with school. Having to deal with Miami's everyday neighborhood traffic, bad parking and small lots, John finds himself growing impatient. He is tired of wasting time in the parking lot and being late to his responsibilities on campus.

GOALS

- Park in a timely manner
- Get to class and practice on time
- Alleviate stress by focusing less time on the parking lot

FRUSTRATIONS

- Parking taking forever
- Arriving to class and practice late
- Spots being poorly parked in



ASHLEY WINTERS

MAJOR

Creative Advertising

HOMETOWN

Los Angeles, CA

AGE

19

SCENARIO:

Ashley is a communication student who lives off-campus. She has a fairly short commute to campus which is only 5-10 minutes. She drives a BMW X5, an SUV that usually has an easy time getting into parking spots. However, when she gets to campus, she sometimes has a hard time finding parking on the busy days. The spots are very narrow, and a lot of people park over the lines. Since she is often busy and in a rush, she cannot afford to waste time searching for perfectly open spots.

GOALS

- Get to class on time
- Not have a far walk to his building
- Find parking spots that are easy to park in

FRUSTRATIONS

- Paying for parking
- Cramped spots and people overparking
- Driving around aimlessly looking for spots



MYLES GREEN

JOB

Sports Administration
Professor

HOMETOWN

Chicago, IL

AGE

43

SCENARIO:

Professor Green is a Sports Administration Lecturer who lives across the street from campus. He drives a Ford F150, a large pickup truck that makes it nearly impossible for him to park in any parking spot with a car next to it. That being said, he has to take this into account when timing his trip to campus. This forces him to leave an extra 10-15 minutes early in order to find an open spot with no cars next to him and be on time to lectures.

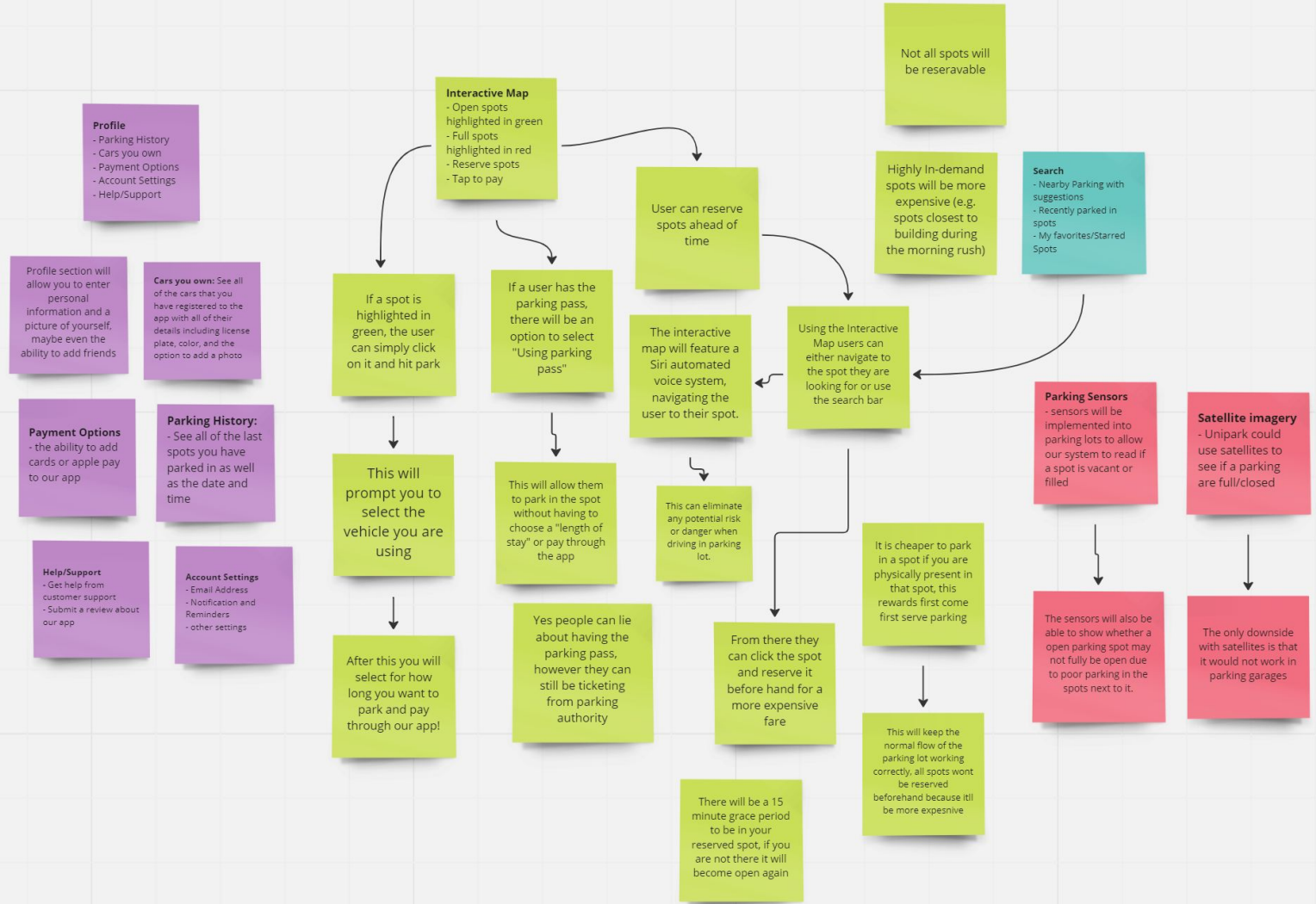
GOALS

- Not have to leave early
- Find spots that fit his large truck
- See ahead of time if the lot is crowded

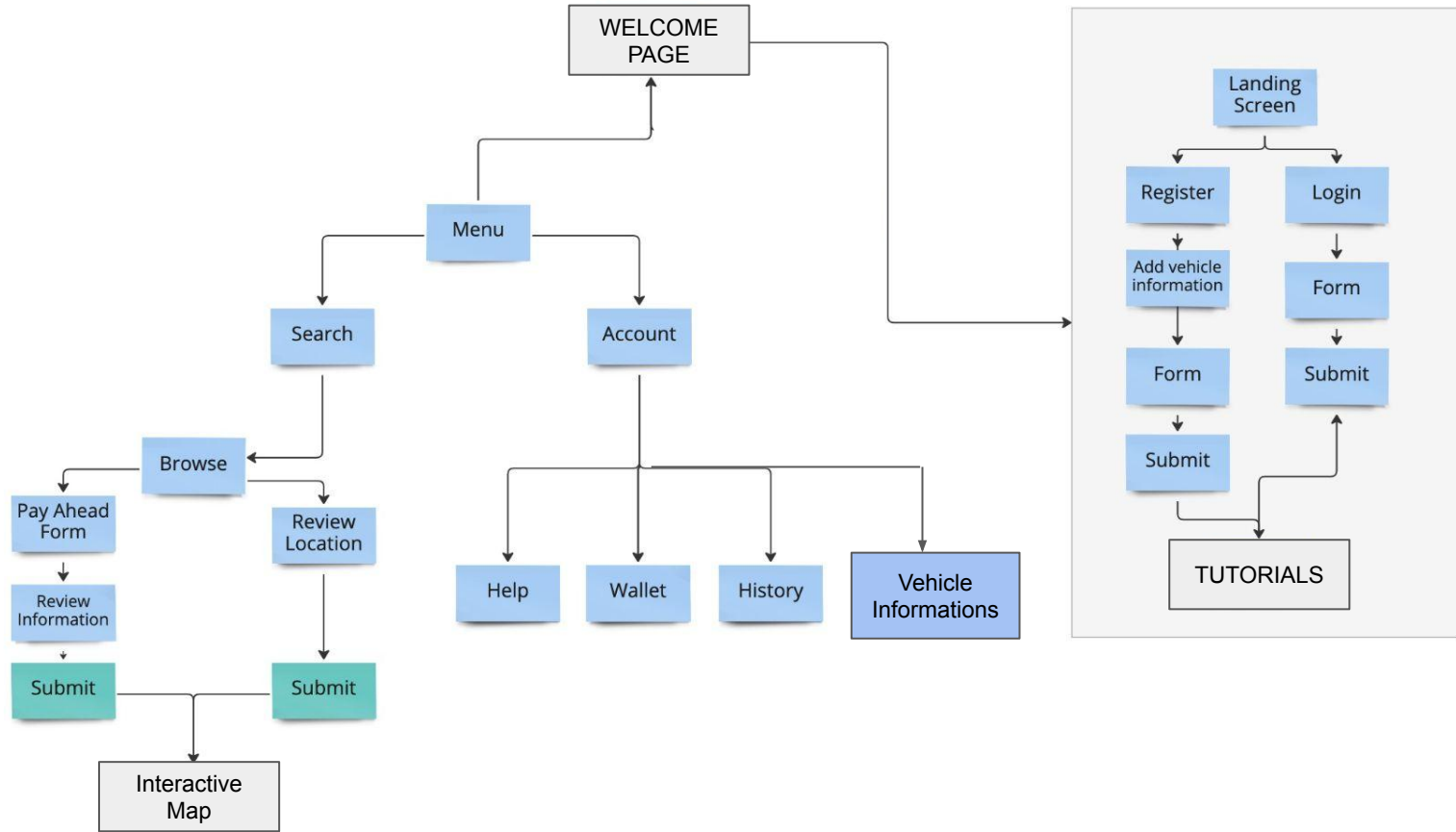
FRUSTRATIONS

- Being late to class
- The roads in the parking lot are narrow
- Never being able to fit his truck in spots

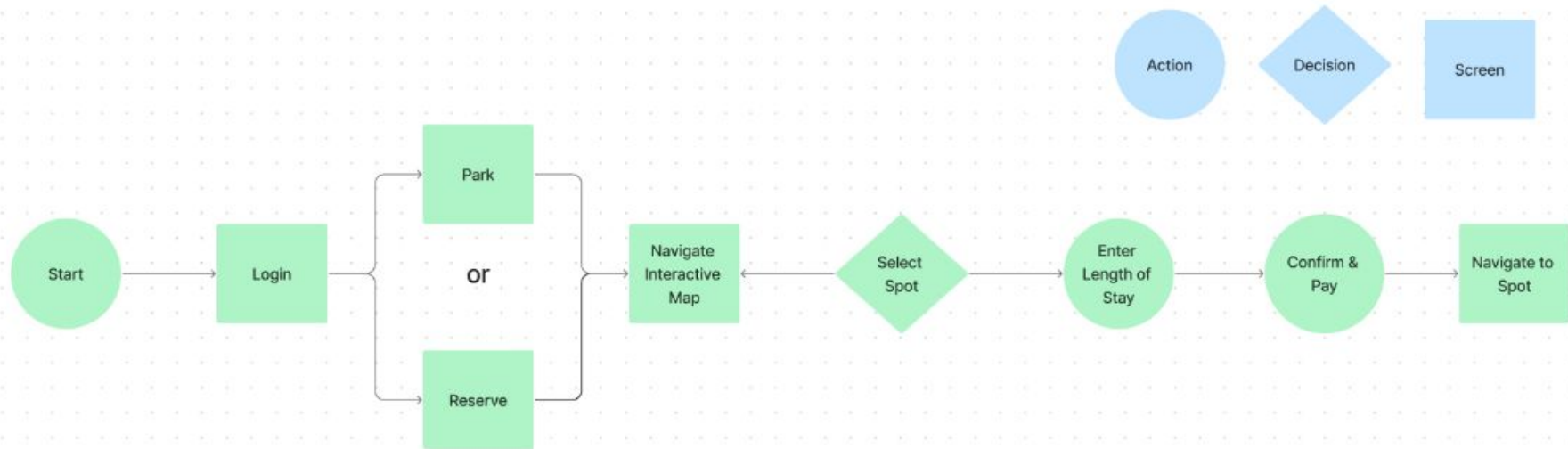
BRAINSTORMING



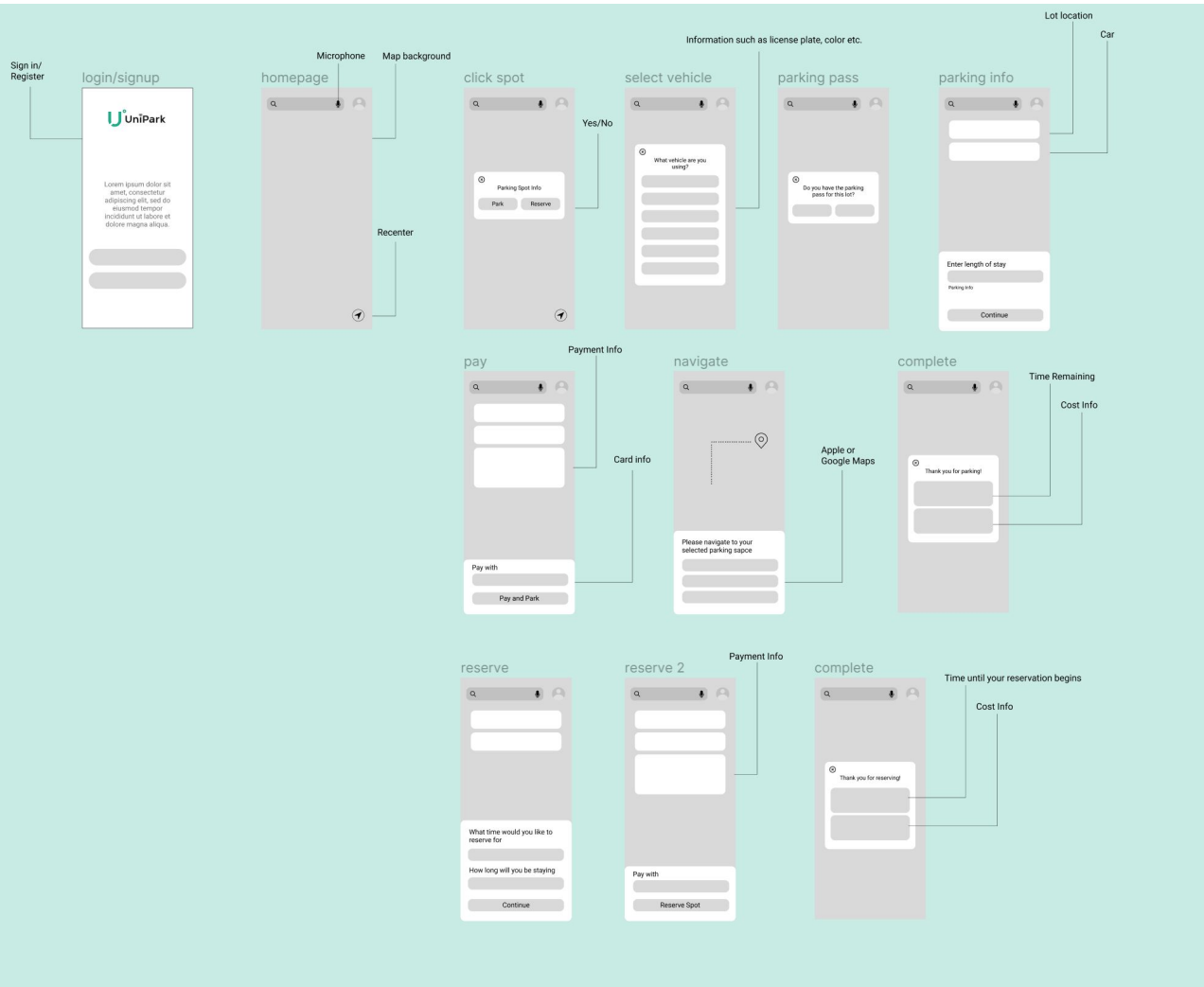
SITEMAP



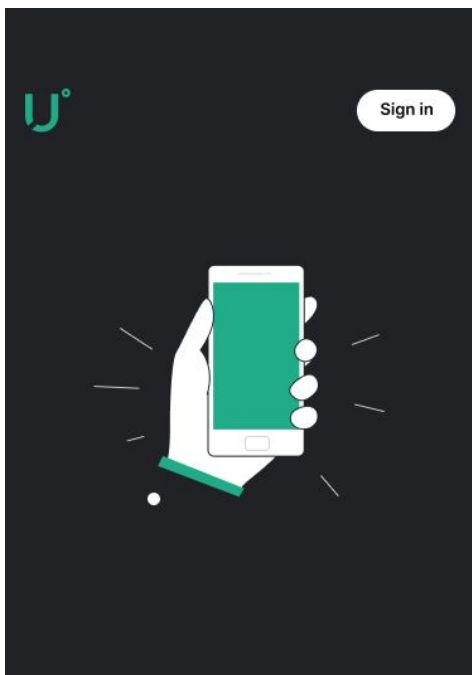
USER FLOW



LOW FIDELITY WIREFRAMES



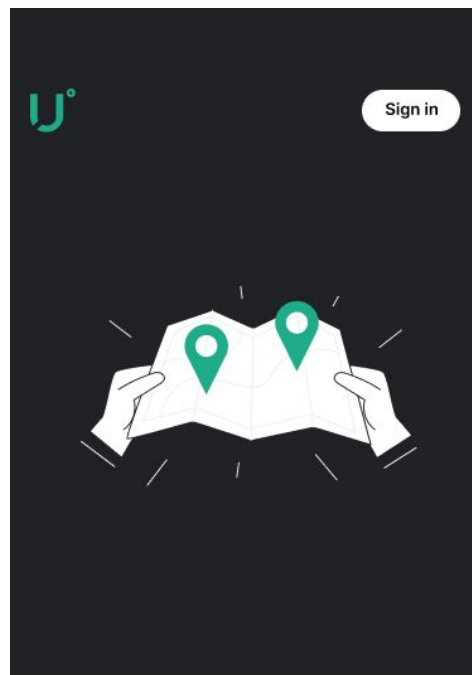
HI-FIDELITY WIREFRAMES



**Save time by reserving
parking before your trip**



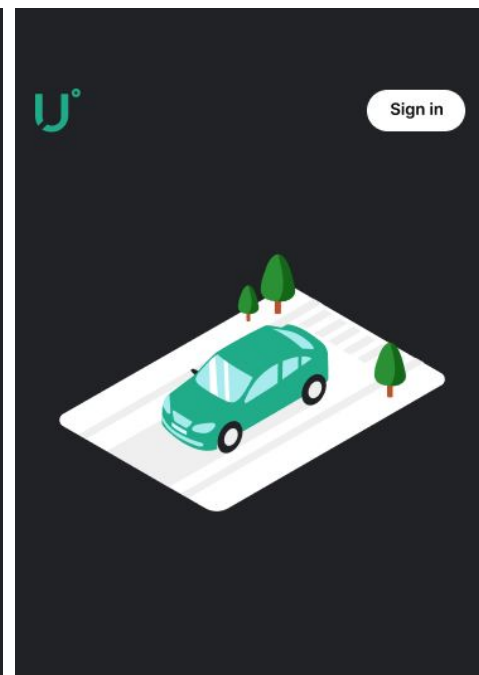
Continue



**Find which parking spots
work best for you**



Continue



**Navigate to your spot
with in-app directions**



Get started



Create a profile

Enter your email and university below to create an account with **UniPark**.

 Add Parking Pass

By continuing you agree to the [UniPark Terms & Conditions](#), [Campus Policy](#) and [Private Policy](#).

Continue



Skip

Add your vehicle

Almost there! Add your vehicle now and start enjoying stress-free parking experience today.

Car Size



 Add Vehicle Image

By continuing you agree to the [UniPark Terms & Conditions](#), [Campus Policy](#) and [Private Policy](#).

Continue



Skip

Payment Method

Save your credit card information for the quickest checkout.

By continuing you agree to the [UniPark Terms & Conditions](#), [Campus Policy](#) and [Private Policy](#).

Continue

Park

Reserve

Find the best **parking!**



Search by Lot



Lennar Health Center

6610 SW 57th Ave, South Miami, FL



Herbert Wellness Center

6610 SW 57th Ave, South Miami, FL

Favorites

P

Pink lot

R

Red lot

Y

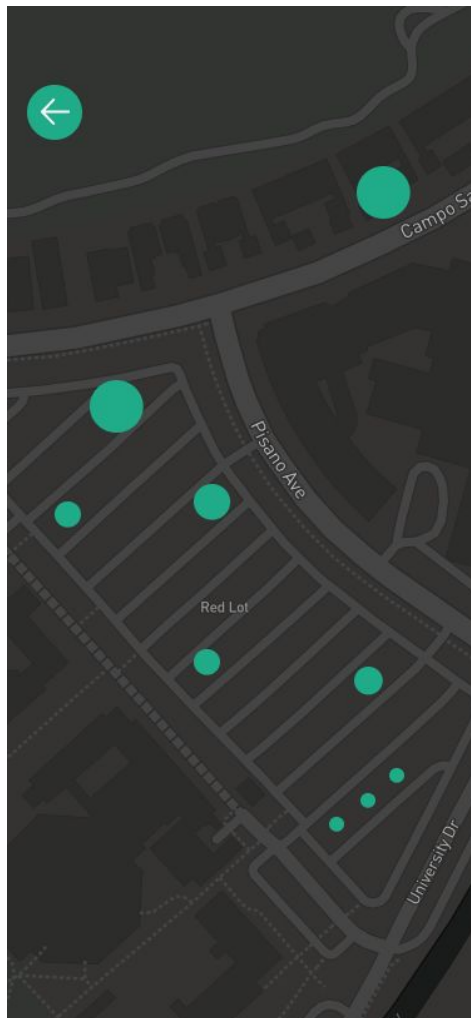
Yellow lot

Plan ahead with Unipark

Get to classes
on time
Reserve your spot



View Map



Select a vehicle

rdtfyGUHDCLVysdHVKJnID B NLS :DN PIS D
NDSON ISOIDSPJPOSz

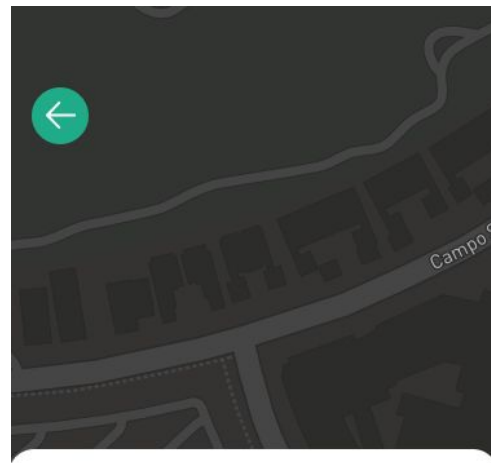
FP22351 PA

LHPG62 FL

AX57987 CT

Add new vehicle





Enter length of stay

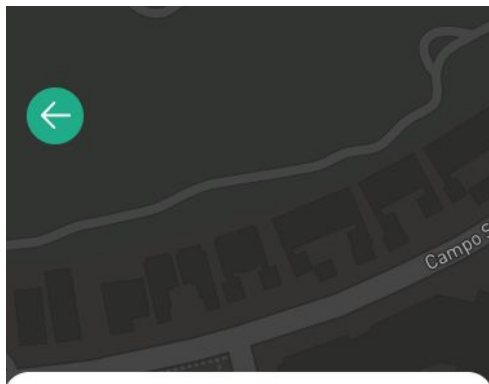
330446
Red Lot
University of Miami

LHPG62 FL

01 hours ↕

55 min ↕

Continue



Confirm Parking

330446
Red Lot
University of Miami

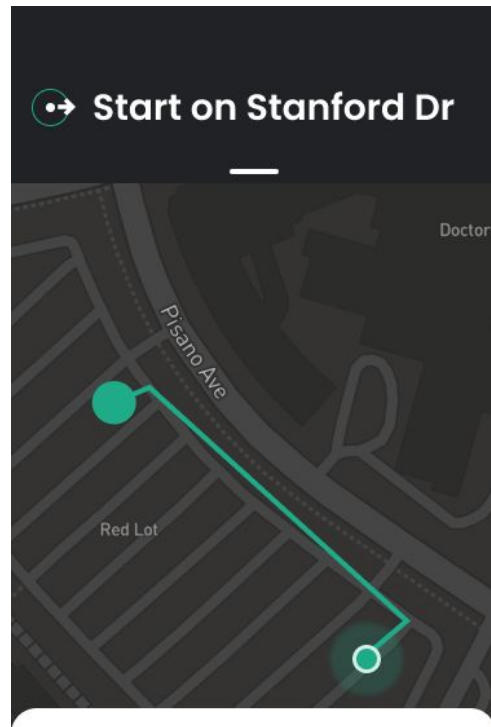
LHPG62 FL

Expires in 2 hours

Total cost **\$4.27**
Includes service charge (+\$0.27)

VISA •••• 2201

Confirm



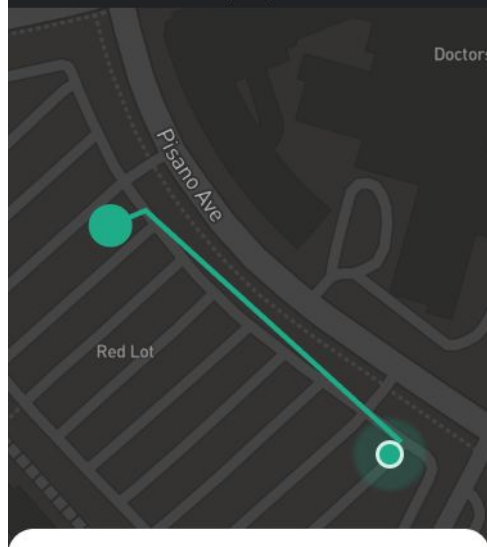
Start on Stanford Dr

Details

2:05 PM arrival

330446 Red Lot
University of Miami

← 250 ft
Maynada St



Details

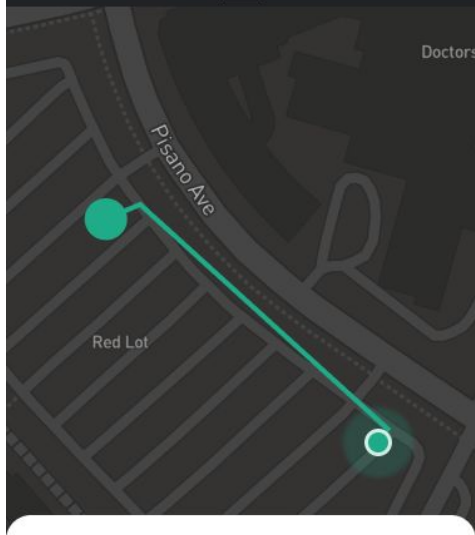


2:05 PM arrival



330446 Red Lot
University of Miami

← 250 ft
Maynada St



Details

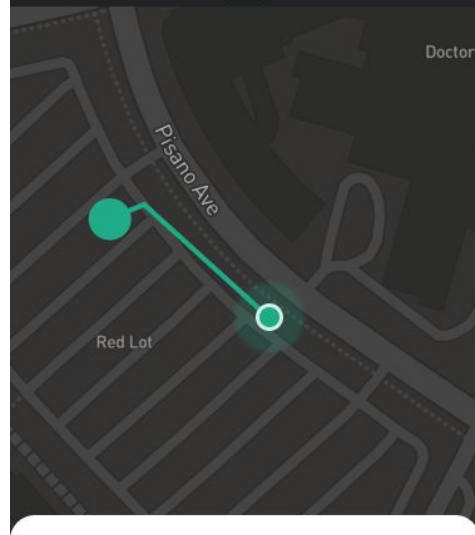


2:05 PM arrival



330446 Red Lot
University of Miami

↻ 150 ft
Arrive at 330446 Red Lot



Details



2:05 PM arrival



330446 Red Lot
University of Miami

UX EVALUATION



USER RESEARCH FINDINGS

Overall, the reviews of our prototype were **positive**.

All users were satisfied with the design and layout. The user flow felt familiar and straightforward.

One of our only **negative** reviews was that it took a lot of steps to get to the navigation screen. This was because they had to go through the entire onboarding process, **as this was their first time using the app**. For future use, it will not take as many steps because they will already have created an account on our app. Our strengths lie in our design and layout, and we can work to improve how quickly a user can complete their task.

Tasks and Interactions	Rating
Welcome Screens	1
Onboarding	2
Homepage	1
Parking Lot map with open spots	1
Select Car, Pay and Confirm parking spot	0
Navigate to parking	2
Aggregate Score out of 30	7

Our combined score translates = 76.7%



HEURISTIC EVALUATION FINDINGS

After analysing our heuristic review, it is fair to say that we created an efficient working prototype.

Four of our categories had a 0-1 rating, with only two categories having 2.

The two biggest things that we must work on for our final hi-fi prototype are the **onboarding process** and the navigate to **parking animation**. By shortening these two the user's time to complete task will be much shorter, creating a more positive user experience and a higher aggregate score.

PROTOTYPE



FUTURE PLANS

For our future plans, we have two primary objectives. In order for our parking system to work, we must **install sensors within the spots**. These sensors will tell the system if the spot is vacant or filled. In order to do this, we will most likely have to collaborate with universities. If this idea proves to be too costly or inefficient, we would consider **licensing our technology off to a larger parking app** such as PayByPhone. By allowing them to simply implement Unipark technology into their larger system, both parties can equally benefit.