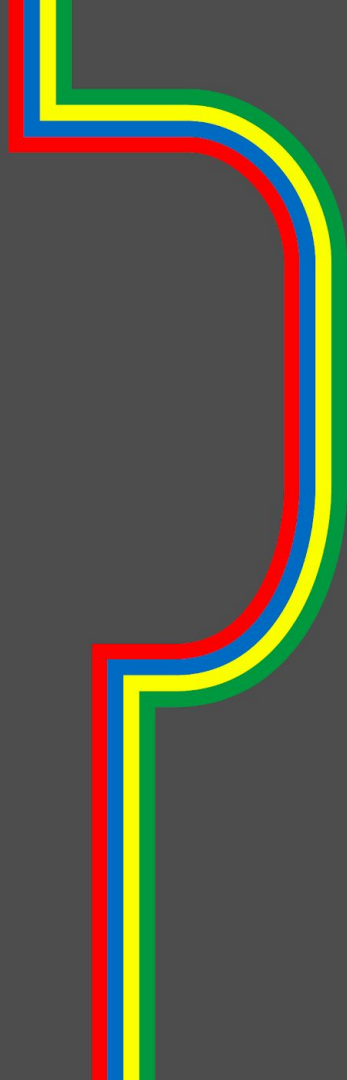
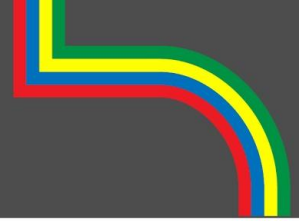


PARK IT

Valerie Chou
Diego Lopez
George Sordoni



Problem Statement



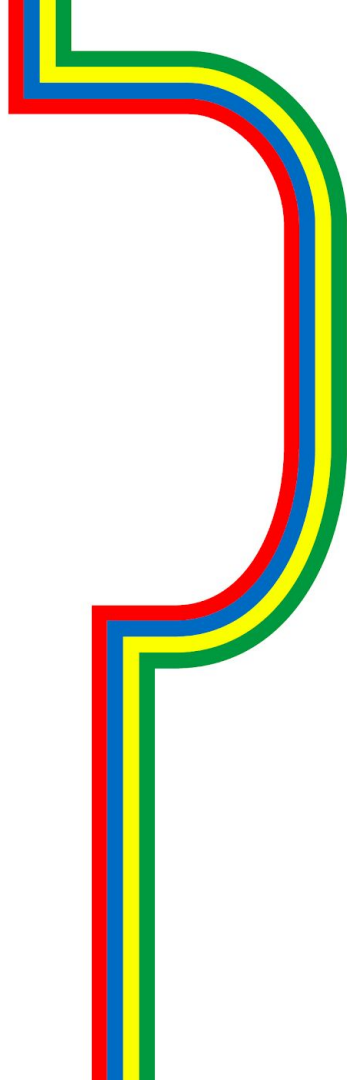
We have observed that people who work in or commute to DC for professional reasons have shown frustration with the inconveniences and costs of parking. This is intrusive and interrupts their daily routines. Since they are busy and work under tight deadlines and time constraints, they need a streamlined solution that allows them to continue their routines with minimal effort and time.

A large, stylized capital letter 'P' is centered on the page. The letter is outlined with a thick, multi-colored border that follows the rainbow spectrum: red, orange, yellow, green, blue, and purple. The letter is positioned to the right of a vertical column of colored squares.

[illegible]

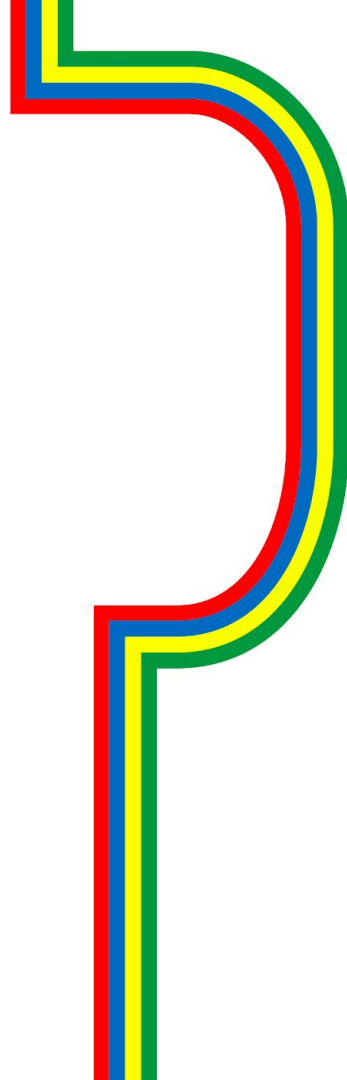
Research

Business Account available to split expenses	Permit Type Filter (Student, Disabled, Vehicle type (Electric, etc.))	Walking directions back to car/Find your car	Remembers locations	Discounted rate on its own dedicated spots with parking partners	Shows how far garage is from your destinations	Self Park	Info on parking restrictions	Ability to filter by Garage Amenities (Valet, credit card, self park, covered, uncovered, handicap)	Safe area to park
	x	x	x						
				x					
		x							
								x	
x				x	x	x		x	

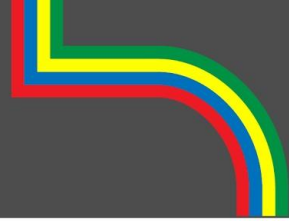


Research

Monthly parking	Future Paking	Event Parking	University Parking	Airport Reservations	Input notes by user about parking restritions	NegativeReview Criticism	Positivte
							reasonable airport parking, big finger friendly buttons, minimal typing (Travel Channel)
						Great customer support {Yelp}	they can't guarantee attendant holds spot {Yelp} Poor customer support {Yelp} Costs much more than finding your own spot {Yelp} not safe area {Yelp}
						notification for expired meter did not work; \$2 fee for no banner ads (cars.com)	Stress Free, loads quickly, take photo of car when inputting data, helps find car or prove meter is broken (cars.com)
	up to 2 weeks						user interface easy to use (the droidguy.com)
		x	x	x			
x							they can't guarantee attendant holds spot {Yelp}



Preliminary Research



Parking App Comparisons

- Some parking apps are only for garage parking.
- The pay feature is very popular.
- Reservations features are limited to garage parking.
- Guaranteed reservation parking is not always coordinated with garage.
- A very desirable feature is a timer/expiration notification.
- A price comparison feature is popular.
- Users like the “find my car” feature of a parking app.
- Some parking apps have many categories of parking locations.

UX Research - Interviews



- “I would like to change the time to be allowed more than 2 hours. We constantly had to move the car to different zones. Maybe 8 hours for a spot.”
- “Yes, the signage is difficult. I read one sign, parked, then another sign behind me was different. I never saw it.”
- “It could be better. I have to spend time to confirm hours.”
- “The parking situation in every city is bad. I hate having to pay for parking. The signage is not good and enforcement is always ready to write a ticket.”
- “Lot of parking tickets because we renewed through the app but they did not consider”

Research Insights



Interviews and Observations

- Users want to avoid tickets.
- Users are confused by the parking signs
- Users hate to search for parking spots in DC
- Users have received tickets despite using a parking app.
- Users have experienced that notifications do not always work.
- Users have added payment with an app and still got a ticket.
- Users are happy with apps but still want more features

Persona



“The parking situation in every city is bad. I hate having to pay for parking. The signage is not good and enforcement is always ready to write a ticket.”

AGE 38
JOB TITLE Lawyer
STATUS Married with two kids
LOCATION Fairfax, VA

HARDWORKING **INTELLIGENT**
CURIOUS **ACTIVE** **INVOLVED**

FAVORITE BRANDS



JAMES SANCHEZ

James is a lawyer beginning his career in Washington, D.C. He recently graduated from law school and had a late start to his career but is focused and determined to succeed. He lives in Fairfax, VA and commutes to work daily. He is married with two lovely children. Having just bought a house, he has many bills that he has to pay including mortgage, loans, utilities, etc. He wants to move up in his career so that he can be financially stable, pay off his loans, and save up enough money for his children's education. He enjoys staying active, listening to podcasts, and keeping up with news, sports, and politics during his free time.

GOALS/NEEDS

- Become a partner with law firm
- Be financially stable within 5 years
- Save enough funds for kid's college
- Pay off mortgage/loans/bills

PAIN POINTS/FRUSTRATIONS

- Not enough time to read signs and look for parking
- Confusion/frustration over signs
- Worried about getting tickets

TECHNOLOGY INVOLVEMENT

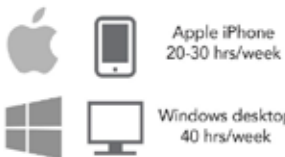
IT and Internet

Using Software

Using Mobile Apps

Using Social Networks

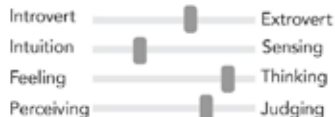
DEVICES & PLATFORMS



INSIGHT

James, a new lawyer beginning his career in Washington D.C., needs to make a great impression on clients because he wants to build a name for himself and fulfill his career and financial goals.

PERSONALITY



Pains:

- No time to read signs and look for parking
- Confusion/frustration
- Worried about tickets
- Pay off mortgage, loans, bills; a lot of financial responsibility

Gain:

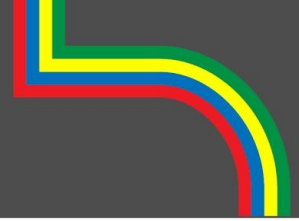
- He gets to work on time
- He finds parking with little effort and time
- Understanding of signs and rules
- No worries about tickets
- No worries about car while at work

Problem Statement & Value Proposition



- We have observed that people who work in or commute to DC for professional reasons have shown frustration with the inconveniences and costs of parking. This is intrusive and interrupts their daily routines. Since they are busy and work under tight deadlines and time constraints, they need a streamlined solution that allows them to continue their routines with minimal effort and time.
- For users commuting and traveling in the DMV area, our app will improve existing parking apps by providing information and innovative features that will improve users' parking experience. We will target the improvement of notifications and information delivery to increase the efficiency of locating parking spots and decrease user pains and frustrations.

UX Scenario



James Sanchez, a lawyer working in Washington D.C., is preparing for a big case that will make an impact on his future career. He is running a bit late because of traffic and finds himself struggling and switching locations because of unreliable signs and information. He rushes into court late to everybody's disappointment. After a long day, he goes back to his car and is greeted with a ticket and a big fine. Frustrated and angry, he goes home and decides to look for solutions to the parking situation in DC.

Storyboard



Scene: 1



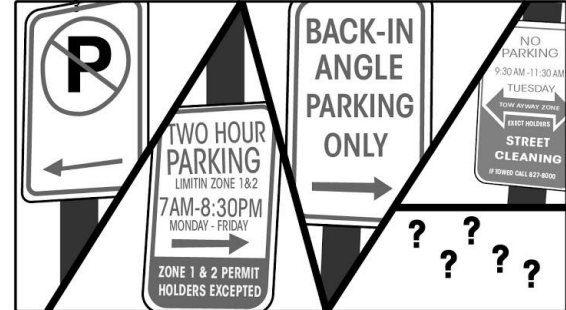
James prepares for the biggest case of his career.

Scene: 2



Driving to the court house there is really bad traffic and he is running late.

Scene:



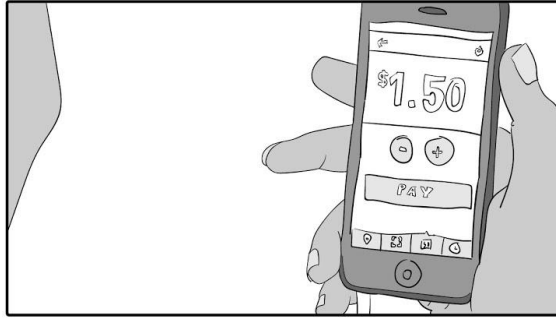
James finds a parking spot but is confused with all the signs that are on the post near by. Not confident enough on the spot he moves.

Scene: 4



James finds another spot a block away from the first spots looks at the time and just gets the zone number and leaves the car

Scene: 5



As he is walking to court he opens up the Park Mobile app and pays for his spot.

Scene: 6

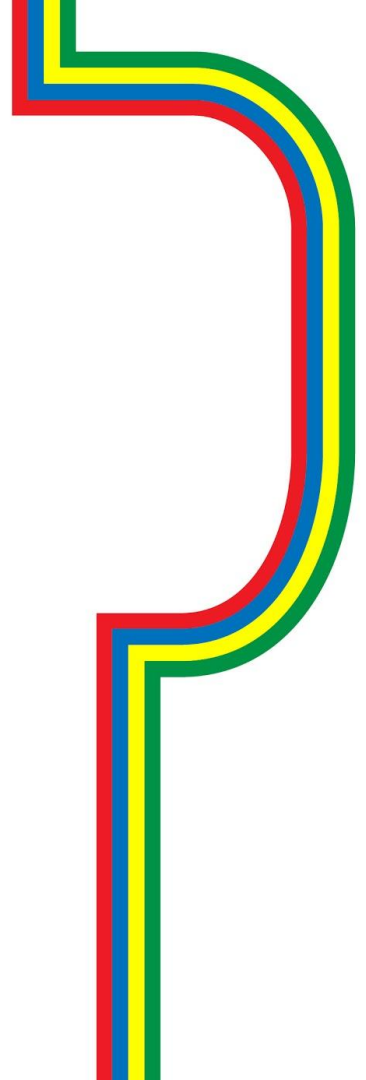


When he finally makes it in to court he is welcomed by angry faces. The judge feels very disrespected and fines him.

Scene: 7



The judge calls it a day. James walks back to his class and finds a ticket waiting for him on his car.

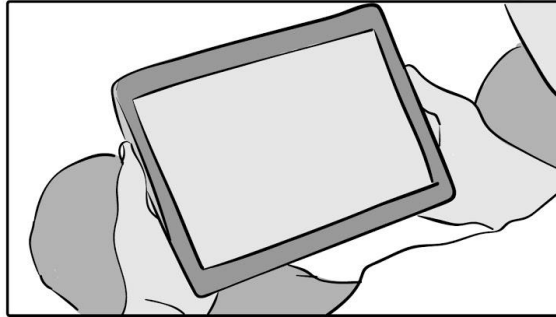


Scene: 8

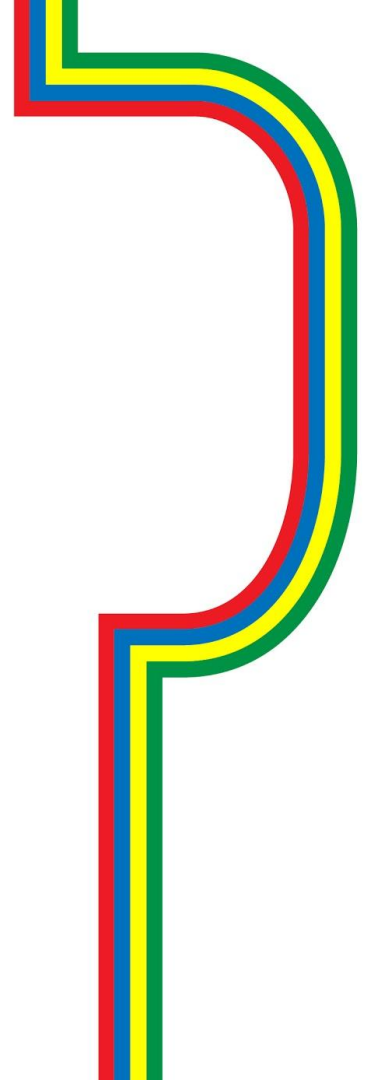


Frustrated he just sits in the car and think about what he could have done to make his day better.

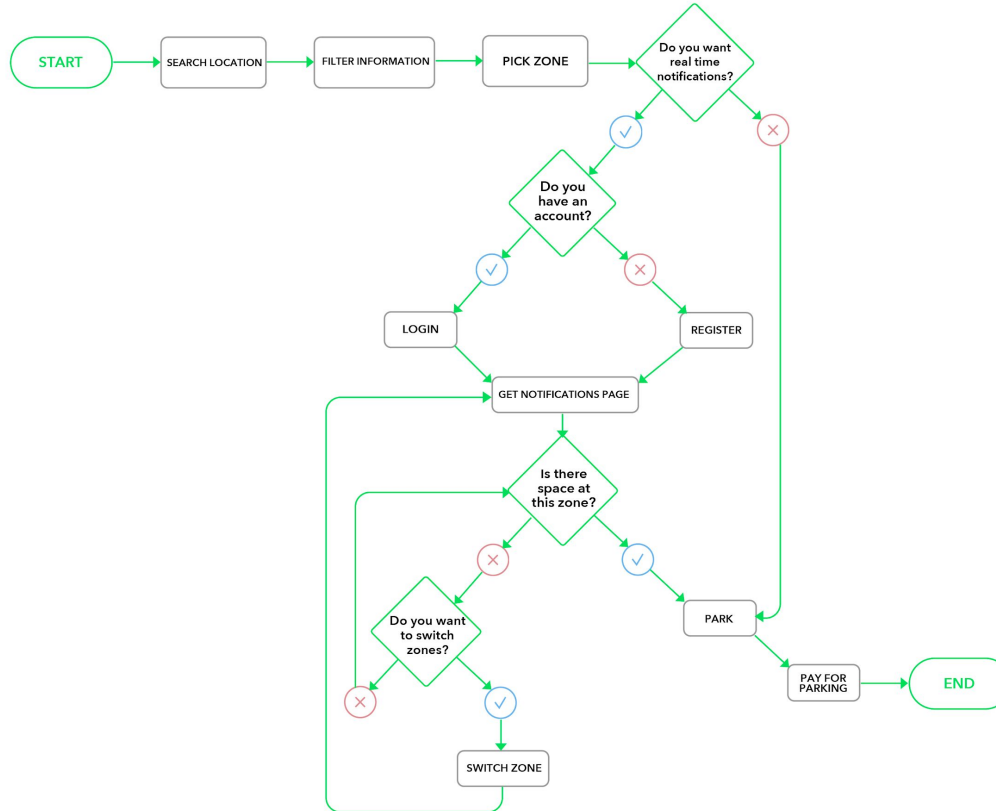
Scene: 9



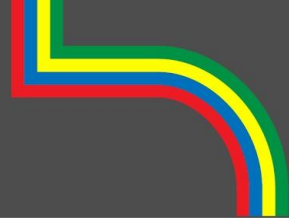
After having dinner with his family. He sit down and looks up more information about parking signs to be better informed.



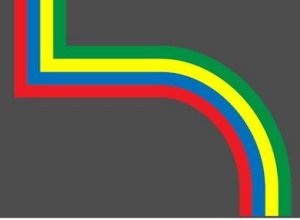
Decision Flow Diagram



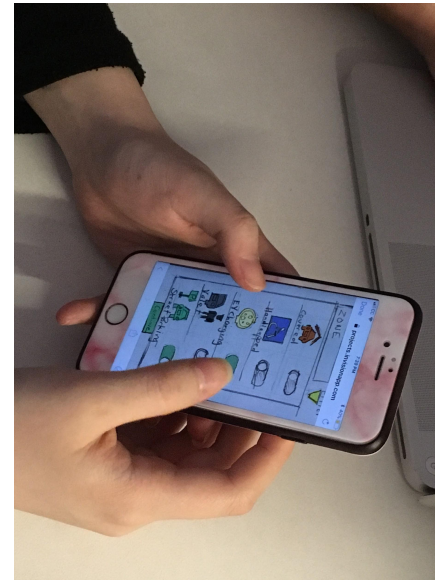
Paper Prototyping/Wireframes



Invision and Testing



Iteration 1				
User1	User2	User 3	User 4	User 5
color code various types of zones	show path of scenario more clearly	put button for user account on home screen	put some handicapped spots on map	
color code icons	make every button loop back to a screen	put filter button on other screens	color code	
		show a screen confirming that you		
Iteration 2				
User1	User2	User 3	User 4	User 5
does my car fit in space (compact car, etc)	show hours available for parking in spot	add something for disabled so they don't need to use buttons on phone	language preference	
show if a space is covered, small image can pop up showing	photo of space that pops up	walking directions back to car	hours available	
have option for garages	notification	reservations	needs notification of time remaining on meter	
overnight parking	show covered parking spots	garage parking, reservation	ability to find car	
rates	expiration notification		photo of where you've parked	
Iteration 3				
User1	User2	User 3	User 4	User 5
add back button	information overlay screen	add back button	countdown of time remaining	easier to use than Parking Panda
payment options	back button	clearer than the one I use	notifications look like buttons	I would like to use it
clarify menu items	payment options		context explanation	
instructions to use	question mark		back button	
			remove clock	
			explanation in menu	
			search button not clear	



Invision Prototype:

https://invis.io/H4GSF40UDNC#/290474802_Home

Conclusion and Future Developments



With informing the drivers we helped them save time from waiting to get to a parking spot and not find anything but notefing them before, they can plan ahead.

Ideas for future Development

- Accessible areas for people with disabilities.
- Reservation for parking on the street. (with some time restrictions)
- Work with garages to get real time data on spots and reservations.
- Guidance/directions back to car.
- Show spaces designated for compact cars, EV vehicles, covered parking
- Features in app for people with disabilities
- Language preferences



Questions?