



UNIVERSITY OF
MARYLAND



Montgomery County Parks

Engage Millennials in Parks

Project Team

Christopher Robeck

Di Xiao

Praneetha Sattiraju

Vinita Atre

Prepared under the supervision of Dr. Bill Kules

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PALS - Partnership for Action Learning in Sustainability
An initiative of the National Center for Smart Growth

Gerrit Knaap, NCSG Executive Director
Uri Avin, PALS Director

Project Focus

How do we

- get millenials to go to the park?
- increase use of park programs and facilities?
- increase awareness about parks?
- increase technological engagement in the parks?

Interview Focus

- Find out what attracts or prevents people from visiting/enjoying the parks?
- How do the users decide which parks they would like to visit?
- What park facilities or features do the users usually interact with?
- What is the awareness about parks and various park activities amongst people?
- What technology do people use in the parks?

Our Process

- Background Research
- Field Research
 - Field Interviews
 - Experience Models
 - Affinity Diagram
- Wall walk
- Ideation
 - Visioning
 - Plus and minus
- Product Concepts





Background Research

Background Research - Literature Review

- Majority of Millennials value parks highly.
 - Value feelings of solitude.
 - Value being part of nature and ability to relax in nature
 - People under 50 years old, visit parks much more often.
- Millennials have differing opinions on leisure time.
 - Some believe it is about tranquility
 - Some believe it is about excitement and new-ness
- Girls are less likely to go to parks than boys.
 - Among kids, teenagers and youth, teenage girls visit parks the least.
 - Few girls were seen participating in sports or playing in pick-up games, like basketball.
- Ease of walk to parks is important.
 - It is important that the park is close
 - It is important that walking there is safe
- Going to parks as kids leads to going as adults.



Field Research

Findings and issues

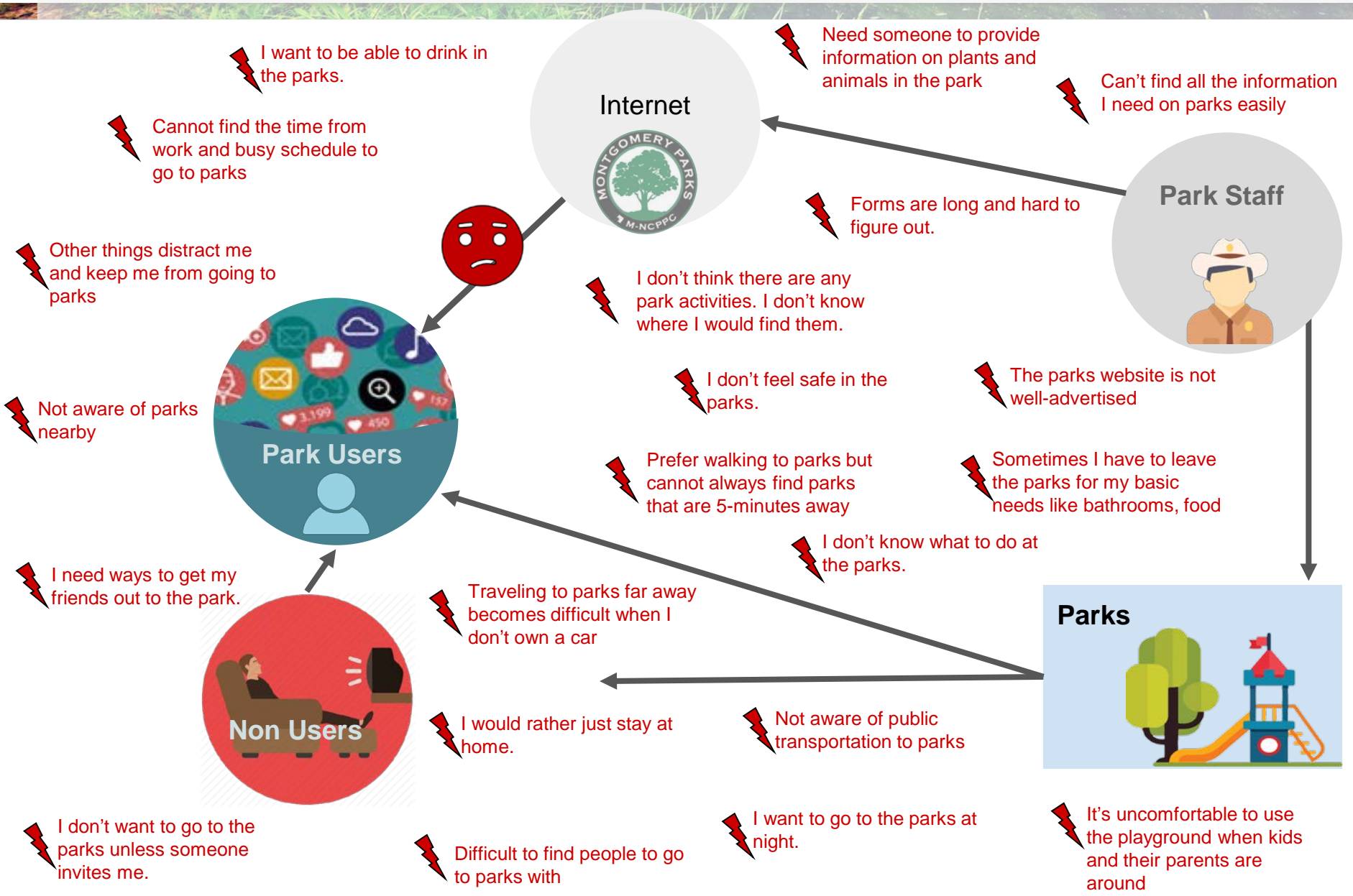
Our Interviewees

Participants

- 4 men, 8 women
- 21 – 35 years of age
- Range of occupations and income levels : student, nanny, artist, Government agent, TA, unemployed, Pizza delivery
- Range of frequency and interest in parks

	Goes Frequently	Goes Infrequently	Doesn't Go
Likes Parks	2 users	2 users	5 users
Doesn't Like Parks	2 users	0 users	1 user

Big Picture



Challenges and high-level findings

I mostly go with my friends

- Many park activities are just excuses for social gatherings.
- Most park goers go because someone else gets them to go.

Many users don't know about the parks near them

- Those who don't normally go to parks don't know about them.
- Users want to get park info from other users not from websites.

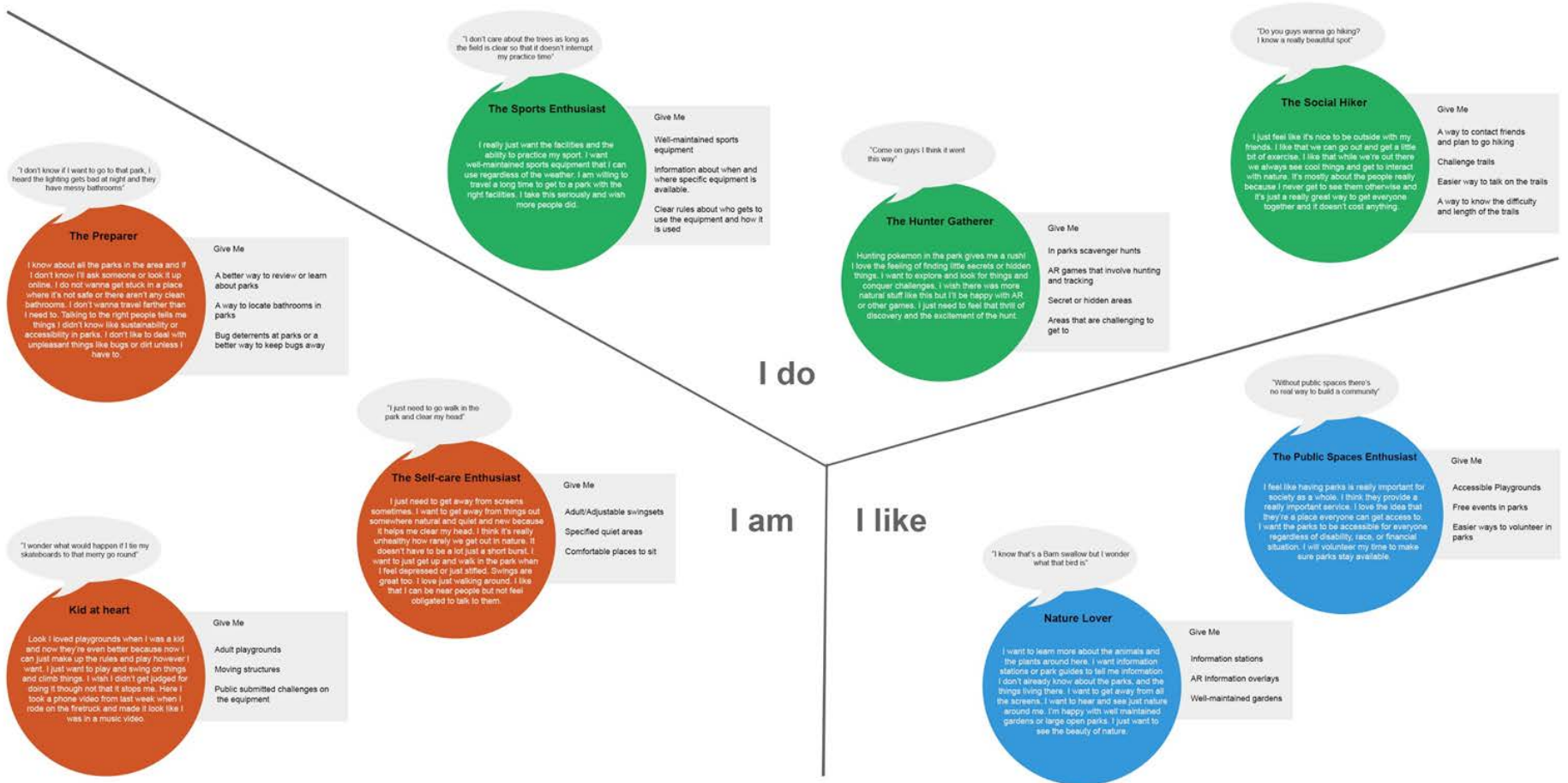
I don't want to do tech things in park

- Users are resilient to the idea of screens in the park.
- Users don't usually bring anything other than their phone.

Millennials want to be able to “Just Go” to the park on a whim

- 10 minute rule I don't want to walk or drive more than 10 minutes
- I want to be able to fill my needs (bathroom, food, water) at the park.

Identity Model



Identity Elements 01

Kid at Heart

I loved playgrounds when I was a kid and it's better now as I make my own games and rules. I wish that I didn't get judged for it though that wouldn't stop me.

Give Me:

Adult Playgrounds

Moving structures

Challenges submitted by people in the park

Self-care Enthusiast

I just need to get away from screens sometimes to go somewhere natural and quiet. It helps me clear my head. I like that I can be around people but not obligated to talk.

Give Me:

Adult/adjustable swing sets

Specified quiet areas

Comfortable places to sit

The Preparer

I want to know all about the parks in my area before I go. If don't know then I'll ask someone or look it up online. I also make sure I have everything I need for my trip.

Give Me:

Better way to learn about parks

Locating bathrooms

Bug deterrents

Identity Elements 02

Sports Enthusiast

I really just want the facilities and the abilities to practise my sport regardless of the weather. I take this seriously and I am willing to travel. I wish more people did it too.

Give Me:
Well maintained sports equipment

Clear rules of engagement and availability info for park equipment

Hunter Gatherer

I want to explore and look for things and conquer challenges. Hunting Pokemons gives me a rush. I just need to feel the thrill of discovery and excitement of the hunt.

Give Me:
Park scavenger hunts

AR games for hunting and tracking

Hidden/secret areas and challenges to get there

Social Hiker

I feel like it's nice to be outside with my friends. I like that we can go outside and get some exercise. It's a great way to get everyone together and it doesn't cost anything.

Give Me:

Plan and contact friends for a hike

Challenge trails
Know the difficulty, length of trails

Identity Elements 03

Public Space Enthusiast

I feel like having parks is really important for societies as a whole. I love the idea that they're a place everyone can get access to.

Give Me:

Accessible playground
Free events in parks
Ways to volunteer for parks

Nature Lover

I want to learn more about the animals and the plants in the park. I want to get away from screens. I want to just hear and see nature.

Give Me:

Information stations
AR information
Well maintained gardens

Park's Physical Model

HOME

I want a good biking experience

I use parks for endurance biking and spend a good amount of time planning it. I use Google Text and Image search, and Google Maps. For more detailed information, I use the Strava App to find cycling events, events near cyclists and teams.

I want to carry cooked food to parks

When I go for park picnics with my friends, we cook food at home and carry it to the parks.

I want to relax in a safe park

When I am bored or stressed at home after a long day of mandatory work, I like to relax in nature. I usually take my dog and earplugs to the park. Also, for big parks where there will be spending more than 2-3 hours, I research about safety in and around the park. I read online reviews and ask friends. I prepare having supplies and gear.

NEARBY STORE



I want to eat/drink near parks

I usually want to get some food after playing. I feel hungry really. I go walking early morning in the park. I bundle up with layers and the cold does not bother me. I carry a cup of hot cup of coffee to the park. I buy them at a nearby store.

PARK

I have no one to play with

I play tennis regularly but I don't have friends who play tennis at the nearby parks. I find the people playing in the park to be very competitive and thus it is difficult to join them. I also see that the courts are usually crowded and people play in turns.

I play basketball at the parks either with friends or alone. I use wireless headphones to listen to music when playing alone. I play for about 30 minutes.

I can't play in the dark

I usually go to the park and keep my things close to the basketball court, as I play. Due to my work, I can only play in the evening. But during winter it is difficult for me to play without lights.

I can play with strangers

I have played basketball during my college years. I own a basketball. I go out and meet people playing at the courts. I go play with them and try to keep in touch for basketball in future. I usually follow similar things to meet the group.

Sports Courts

Don't give me gimmicky tech

I see a sign says "scan the QR code to know more" but I don't scan it because I don't have the app and I don't understand what it is used for.

I want easy info and more plant info

I was looking up info about the plants and gardens that I see in the park. But I could not find any boards or labels. I don't usually read instructions on boards. I would like to scan QR codes and get more info. I also prefer to ask a staff member.

Instructions & Signs

Biking on trails with music

I don't like kids on biking trails and like organized trails. I like with other cyclists on biking trails and use fitness tracker on my bike to collect stats during endurance training. I don't use maps for navigation while biking on trails. I explore trails instead. But I listen to music on phone while biking.

Trails

I want to be comfortable and safe in parks

I go walking early morning in the park. I bundle up with layers and the cold does not bother me. I carry a cup of hot cup of coffee to the park. It's only when the sun gets by that I prefer not to go walking. I like lights on walking boots and I feel safer due to increased visibility. But I also don't feel safe walking in a park where the path is cut off by the trees and woods with poor visibility.

I want social biking/hiking

I go hiking to big parks with special groups of friends. They are outdoor enthusiasts. We use rental bikes. I had heard about the biking trails near my house. I have also seen the rental bikes near the park and the trail boards. So we got two rental bikes. At the local area paved using a credit card.

Water Fountain

I carry my own bottle to parks

I carry a water bottle for me and my kids as they get thirsty while playing in the park. I usually refill the bottle at least twice. When going alone, I only carry water when I go to play in the park.

I carry a water bottle but fail to use a water fountain to refill it.

I need to leave parks for bathroom facilities

When my kids are playing, I need to leave them home if they need to use the bathroom facilities as there are no washrooms facilities in the park. So I usually go with my partner so that one of us can be there for the kids at the park while the other takes the kid home. Sometimes, I search "bathroom" rather than parks on Google to find a park to go.

Bathroom



Fitness Equipments

Fitness parks are for oldies

I don't use the fitness structures in the park. I think they are reserved for old people. I wouldn't use them for at least ten years.

Dog's Playground

I take my dog to play

I play fetch and run during with my dog. We usually walk to the park after dinner. We cross a small creek to reach the park.

I like dogs in my park

I see to see dogs in my park when I am out for a walk in the park. I would love to pet them if the owners allow it.

I want "KID PLAY" for adults

I want to see adult playgrounds in the county. I use the swing in kids playground if it opens not for adults or when no kids are around so that I won't feel embarrassed. But this swing is strong & not adjustable. It frustrates me.

I play with my kids

During afternoons, I and my partner take our kids to the park to play. We play for the kids get bored out. I play with my kids at the structure and I help them around. With all the kids running try to keep an eye on them. I encourage my kids to play in a group and involve in a group around the play structures.

I don't like teens or adults smoking in the park around my kids. I don't want them smoking in the park but I don't think that it's any good for my kids. I see that regulations should be enforced strictly. I don't personally approach them and ask them to stop.

Playground

Short bursts of parks are relaxing

I sit on the park benches for reading, and I want to see few benches in parks so that I will be able to read there in parks. I especially enjoy the benches under trees which give shade to someone. I seek out pocket parks around my office.

I have visited my family at these pocket parks. I don't want going alone to these pocket parks. I sit at the benches in the evening to relax.

I get a cup of tea with me to sit and drink at the benches. The park does not have any picnic tables. So I do not take my friends along. Also there is not enough space around the benches.

Benches & BBQ Tables

I want to capture moments with friends in pictures

I like taking pictures with friends in the park. I use when my friends are taken. It creates good memories for me and I post them on social media as well. I love my friends to come join me at the park.

Parks for food and drinks with people

I like food truck festivals and wine. I and my friends usually drink beer when chilling at home. During warmer weather, we would like to casually drink while grilling at the park. But I have found it very difficult to find an outdoor picnic. I dislike the BBQ sites, with never use it in parks. It seems dirty to me making the mess of smoking oil, and I don't want to clean grill as well. However, it might be necessary to have some garbage bins here with some dedicated recycling bins which means when the garbage bins BBQ should be put in it.

My park should be mix of seclusion and urbanization

As a kid, I played in an urban park which was through downtown and also had a secluded green area. I would love to see such parks with access to coffee shops and small food stands but also certain more weather and greener spaces.

I walk alone from home, finding a way to escape from daily stress to nature. I find the park by phone. Making on path is a good way for me to interrupt. I do not use my phone at that time. But I listen to music with my good. However, I have to navigate home by Google Maps since I have no idea where I walked to.

Trees Area, Grass, Path

Physical Model Elements



- I spend a lot of time searching for information online
 - I Google images showing different activities in parks
 - I read online reviews by other park users
 - I want to know about the safety in parks



- I have to prepare for various activities at the park
 - I need to carry my bike till the park
 - I take my basketball and water bottle to the parks.

Physical Model Elements



- I want to eat food in the parks
 - I sit on the bench and sip tea in evenings
 - I prepare food at home to take it and eat in parks
 - I find pocket parks to have lunch
 - I get a cup coffee from the store when talking a walk especially in colder weather

Physical Model Elements



- I have no one to play with
 - It's difficult to find friends who play in nearby parks
 - I don't like to bring my equipment to the park.


- I want to be able to play on the playgrounds but they're just for kids.
- As an I want to be able to use swing sets and playgrounds



Physical Model Elements



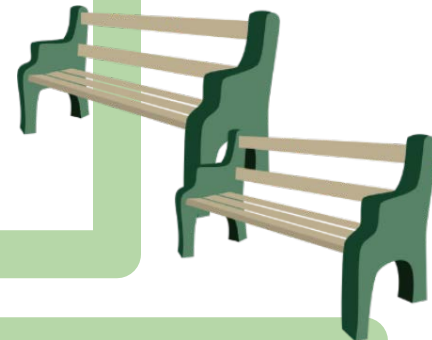
- I want to water fountains that are easily visible or findable in the parks
- I need washrooms closeby to parks for myself and my kids

- I want to know more about different plants of the parks. Don't make me scan codes
- Finding new and cool things in park excite me
- I like to take pictures in the park 



Physical Model Elements

- I like to eat in parks, and some parks do not have picnic tables so I cannot go along with my friends
- I would like to parks with access to coffee shops and small food places but also contain more quiet and secluded places



- I like reading in parks under shade. I would like to see some free books available in parks.
- I want to capture pictures with friends in parks



Overview of Findings

Understanding the challenges

How I grew up with Parks determines how I use them...

- **I grew up going to parks so it's a habit**
 - My interest in outdoor play and games was developed at parks
 - I liked playground as a kid
 - I like this Park because it has a wide range of activities for people of all ages and I don't feel like I've outgrown it
- **I am bonded to “my” park**
 - I like a particular park because of nostalgia
 - I grew up with a specific type of park, doing specific activities in parks
 - I visit the park with my siblings or family to relive old memories
- **I learn about other parks by going to parks**
 - I don't know about parks unless I go to them. There is a park 5 minutes but I only discovered it when I went there
 - When in parks, I find out activities at various parks
 - I find out about the parks while exploring the trails



I want to go more but other things distract me...

- **I don't really feel relaxed until I am home**
 - I like the feeling of comfort when I know "I am home" at the end of the day
- **My work schedule makes it hard to go to parks**
 - I haven't been to the park in a month because of my busy work schedule
 - I sometimes have to work on the weekends which prevents me from visiting parks
- **I prefer to socialize somewhere I can drink**
 - I am not comfortable drinking in parks as I am unaware of the park policy and feel it's a hassle to get permission to drink

I research the parks I go to...

- **I search online mostly about specific issues regarding the parks.**
 - I google the parks I want to visit and check the images as well as street-level views to ensure they are good for biking and training
 - I check if the bathrooms are available on the map and open before visiting a park
- **I don't usually go to the parks website for info.**
 - I usually just google parks
 - I prefer getting my information from people who share my values and opinions about parks
- **I search for activities I want to do in parks rather than the parks themselves.**
 - I like to go for hiking in parks and select them based on the variety of trails
 - I only go to the parks for playing basketball and do not mind traveling far to a park that has good courts and playing equipment
- **Which park I go to depends on who I'm going with and what I want to do.**
 - I prefer visiting Sligo Creek Park rather than the local park near my house, as I get to meet my friends there and spend time with them
 - I usually go to the neighborhood parks with playgrounds with my kids

Travelling to Parks should be easy...

- **Distance determines how and when I go to parks.**
 - I prefer driving to parks like Wheaton that are more than 2 miles away and take me more than 10 minutes to walk there.
 - I prefer walking to neighborhood parks if it takes me less than 10 minutes to get there
- **I have trouble bringing my own stuff to the park.**
 - I occasionally bike to the park but find it a hassle to carry my bike all the way there
- **I need a vehicle to get to the park.**
 - Not having my own car makes it difficult for me to visit the parks often
 - If there were a shuttle to the park I would definitely go paddling
- **I use apps to navigate to parks.**
 - I use Waze to find directions and travel to the park
 - I use an app for the shuttle to the park and find it quite useful

I want to be able to “Just Go” to the parks...

- **I want to be able to have short bursts of outside.**
 - I like to eat lunch at pocket parks near my workplace
- **I like casual low effort park activities.**
 - I did rock climbing and hiking only for a couple of years as I felt it was expensive and required a lot of planning.
- **I don't want to have to plan my park visits.**
 - I like visiting local parks as I can go there spontaneously without any planning
 - I like parks that are closer to my neighborhood which makes it easy to go for a walk in the spur of the moment
- **I go to the parks because I am bored and it's easy.**
 - I usually visit the local playgrounds whenever I'm bored

It's really about what people are in the park

- **I want to see diverse people in parks.**
 - I mostly find caucasians in the park even though there is a lot of diversity in my apartment complex
 - I feel uncomfortable when there's nobody in the park that looks like me.
- **I want activity based park communities.**
 - It would be nice to have Montgomery county parks encourage bike events and help build a bike community
 - I would visit local parks more if there were clubs that conducted cycling or skateboarding events
- **Events help me find my people in the park.**
 - I like to attend events conducted by bike shops as I know I can find people who bike and train at the same level I want to
- **I like that parks are free and non-profit.**
 - I'm willing to work and take responsibility for parks being free because I believe in community spaces.

I want to plan a social parks experience

- **I use going to the park as an excuse to hang out with friends.**
 - I usually go hiking as it gives me a chance to talk and catch up with friends while being in nature
 - I prefer going to the park farther away than the one near my home as most of my friends live there and it gives me a chance to hang out with them
- **I actively want to get more people to go to the parks.**
 - I liked Pokemon go as I could get many of my friends, who were otherwise unwilling, to go to parks
 - I would like to see more businesses organize events in parks
- **I find it hard to find people to go to parks with me**
 - It has become increasingly difficult to find time with friends to go to the parks due to our respective work schedules
- **I use social media to find people to go to parks with**
 - I use meetup to find people interested in basketball or other similar activities and get information on various events
 - I would like to see the county website working in combination with meetup service to find new people that share similar interests in park activities

I create or play games in the park

- **I want adult play structures**
 - I want adult or adjustable swing sets in the playground
 - I want to play on the play equipment but feel like I'm not allowed to when kids are around. It would be nice to have separate playgrounds for kids and adults
- **I like to create my own games with park equipment.**
 - It's more fun when I use the kids playing equipment in parks to create competitive and challenging games
 - Sometimes my sister and I sit on the rocking horses in the playground and pretend to be in a race to keep things fun and interesting
- **I like to find or hide things**
 - I really like the secret scavenger hunt of statues in the park.
 - I like geocaching in parks because it is fun to hide things and find what other people have left behind
- **I like the feeling of hunting things**
 - I went to the parks with more people because of Pokemon go as I really liked the idea of tracking and catching pokemons with friends
 - I really like the hunting and tracking feature in Pokemon go and was upset when they removed it

I play mobile games in the park

- **Geolocation mobile games drive me to parks.**
 - Pokemon go made me stay in parks longer as there were so many pokemon and I roamed around to catch them all !
 - I played Pokemon go in parks because there were several pokestops and charging stations available
- **I like that mobile games provide an excuse to go out with friends.**
 - I liked Pokemon go not for the nostalgic value but because it allowed me to get many of my friends to parks and hang out with them
 - Pokemon go lets me have spontaneous outings with my friends in parks and I do not have to choose between going out and being social



I want to be immersed in park

- **I go to parks to achieve a sense of tranquility.**
 - I don't want to be disturbed while in the park
 - Screens disrupt my immersion in parks
- **Reading or listening to something is fine in the park.**
 - I know people who like to read research papers in parks as they feel it helps them retain information better
 - I usually carry my headphones and use Spotify to listen to music while enjoying the nature in the parks
- **I want to be able to sit in the shade.**
 - I would like there to be more benches which are under trees for shade during the summer
- **My phone is the only tech I really bring to the park.**
 - I bring only my phone to the park so that I can talk to my family/friends while walking

I don't want to have to leave parks for my basic needs

- **I want well maintained bathrooms that are open 24/7.**
 - I really like that Patapsco park has a lot of bathrooms closeby with things clearly labelled and maps everywhere
 - It is really annoying that I have to sometimes walk a lot or even leave the park to find bathrooms
- **I want food trucks, and access to nearby restaurants.**
 - I wish that the park had more “active events” like food truck festivals and live music events
 - My ideal park would be near restaurants and coffee shops but in a secluded region with a more natural aura
- **I want to be able to drink in the parks.**
 - I really enjoyed park picnics but they eventually died out as we weren't allowed to get alcohol
 - I really enjoy the wine festivals in the parks and wish there were more such events

I want safety in the parks

- **I want kids in the park to be safe.**
 - I watch over my kids and help them use the play structures in the playground
 - I am worried about my kids safety whenever we go to the lake and wish there was a lifeguard around
- **I feel unsafe when it's too dark.**
 - I am scared to walk in parks at night when some areas do not have enough light
 - I was particularly afraid to visit this lake while growing up as it was not connected to the sidewalk and was not well-lighted
- **Feeling safe in the park is a lot about the surrounding area.**
 - I feel safer walking in parks like Gaithersburg as it is more suburban than Silver Spring
 - I feel safe at this park as it is closer to my house
- **Well defined and followed rules make me feel safe.**
 - It's important for me to know whether the park is well organized for biking as I am concerned about others safety on the trails
 - I am not comfortable drinking in parks as I am unaware of the park policy and feel it's a hassle to get permission to drink

I go to the parks for intense physical activity

- **I wish there were more challenging trails in the parks.**
 - I like to visit big parks where there are usually a larger variety of challenging trails
 - My favorite part of hiking the last time we went was a fallen tree over the river, as it made it more challenging and fun for us to walk across.
- **I use the parks to tire out my kids or dogs.**
 - Whenever I'm babysitting, I take the kids to the playground as it provides good exercise and tires them out
- **I visit the parks for one specific type of training.**
 - I spend about four hours to do endurance training on my bike and 1-2 Hrs to do mountain biking in the parks.

Bibliography

- Baas, J.M., Ewert, A., and Chavez, D.J., 1993, "Influence of Ethnicity on Recreation and Natural Environment Use Patterns: Managing Recreation Sites for Ethnic and Racial Diversity", *Environmental Management*, Vol. 17 (4), pp. 523-529.
- Bell, P.J.P., 2000, "Contesting rural recreation: the battle over access to Windermere", *Land Use Policy*, Vol. 17 (4), pp. 295-303.
- Burgess, J., Harrison, C.M. and Limb, M., 1988, "People, Parks and the Urban Green: A Study of Popular Meanings and Values for Open Space in the City", *Urban Studies*, Vol. 25, pp. 455-473.
- Chartrand, T. L., Huber, J., Shiv, B., & Tanner, R. J. (2008). Nonconscious Goals and Consumer Choice. *Journal of Consumer Research*, 35(2), 189-201.
doi:10.1086/588685
- Jackson, E.L. and Wong, R.A.G., 1982, "Perceived Conflict Between Urban Cross-Country Skiers and Snowmobilers in Alberta", *Journal of Leisure Research*, Vol. 14 (1), pp. 47-62.
- Noe, F.P. 1978, "Identifying Attitudinal Predictors among Youth toward National Parks", *Journal of Leisure Research*, Vol. 10 (3), pp. 203-213.
- Noe, F.P., McDonald, C.D. and Hammitt, W.E., 1983, "Comparison of Perceived Risk Taking in Groups and Implications Drawn from the Risky-Shift Paradigm", *Perceptual and Motor Skills*, Vol. 56, pp 199-206.
- Ulrich, R.S., 1979, "Visual landscapes and psychological well-being (National Parks)", *Landscape Research*, Vol. 4 (1), pp. 17-23. [architecture and fine arts]
- Ulrich, R.S. and Addoms, D.L., 1981, "Psychological and Recreational Benefits of a Residential Park", *Journal of Leisure Research*, Vol. 13 (1), pp. 43-65
- Ulrich, R.S., Dimberg, U. and Driver, B.L., 1990, "Psychophysiological Indicators of Leisure Consequences", *Journal of Leisure Studies*, Vol. 22 (2), pp. 154-166.
- Wong, D.T.S., 1996, "The Political Nature of Tourism in Sensitive Areas", *Australian Parks and Recreation*, Vol. 32 (3), pp. 20-26.
- Yuen, B., 1996, "Use and Experience of Neighborhood Parks in Singapore", *Journal of Leisure Research*, Vol. 28 (4), pp. 293-311.



Wall Walk

Take a break!

A scenic view of a river with a boat and a house reflected in the water, surrounded by lush green trees. The scene is captured from a low angle, looking across the water. In the foreground, there are tall green reeds on the left bank. The water is calm, reflecting the sky, the trees, and a house in the distance. A boat is visible on the left side of the river. The background is filled with dense green foliage and trees. A green rectangular box is overlaid on the center of the image, containing the text "Product Design".

Product Design

Overview of Product Concepts

PARK MAP APP

1. gives information;
2. improves safety;
3. shows you things to do;
4. has pocket mode for immersion.

6 identities concerned

8 findings concerned

PARK SHARE SYSTEM

1. lets users just go to the parks;
2. provides equipment for all users;
3. lets users create their own park experience;
4. avoids extra preparation before going to parks.

6 identities concerned

7 findings concerned

Complete New Park System Addresses All Issues And Appeals to All Users

PHYSICAL REDESIGN

1. draws adults into the parks;
2. creates a time for adults to use the playground;
3. creates new selfie spots;
4. enables people to get food in parks.

6 identities concerned

5 findings concerned

PARK ARTS SYSTEM

1. encourages artists;
2. makes creating and finding events easy.

3 identities concerned

4 findings concerned

Park Map App- - Overview



Provides an interactive map of the park



Allows users to rate and review the parks



Provides a pocket guide for the users while hiking



An easy way to find and get information on nearby parks

Helps users to notify others in case of an emergency



Park Map App

Updates

Alerts let you see when there's something new in one of your favorite parks. Just tap to find out more.

Home Page

Hiking



My Parks

Your favorite parks



List of Parks near me

Park Name: Some Place
Distance from you: 5km
Description
Activities: **Hiking**
Rating: 5 stars



Park Name: Other Place
Distance from you: 7km
Description
Activities: **Hiking**, Boating
Rating: 4 stars



Search

Search based on activities, proximity, or name.

Search

Parks are displayed based on their proximity and rating for the specific activity.



Pocket Mode



Park Map App

Park Information

Patapsco Park



Edit Park

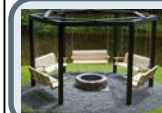
Add to My Parks

Cool Stuff



Eagles sighted here!

More Info



Cool swings.

More Info



Nice Hiking!

More Info



Add Reviews/Posts

Add Pictures



Pocket Mode



Cool Stuff

Showcases the hottest items and coolest things about the park as submitted and chosen by users.

Voting

Users decide what shows up first by upvoting or downvoting the stories.

Park Map App

LCD Display

Patapsco Park

Description about the park



Recent Activities / Events



Eagles sighted here! It was really Cool and it.

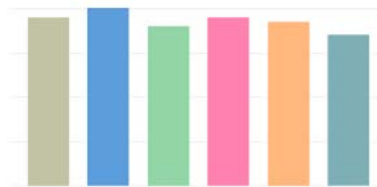
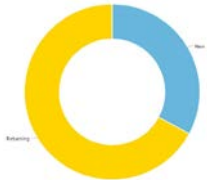


Beautiful lake for swimming!



Party in the park this Friday at 9am.

Stats







Rank
#1

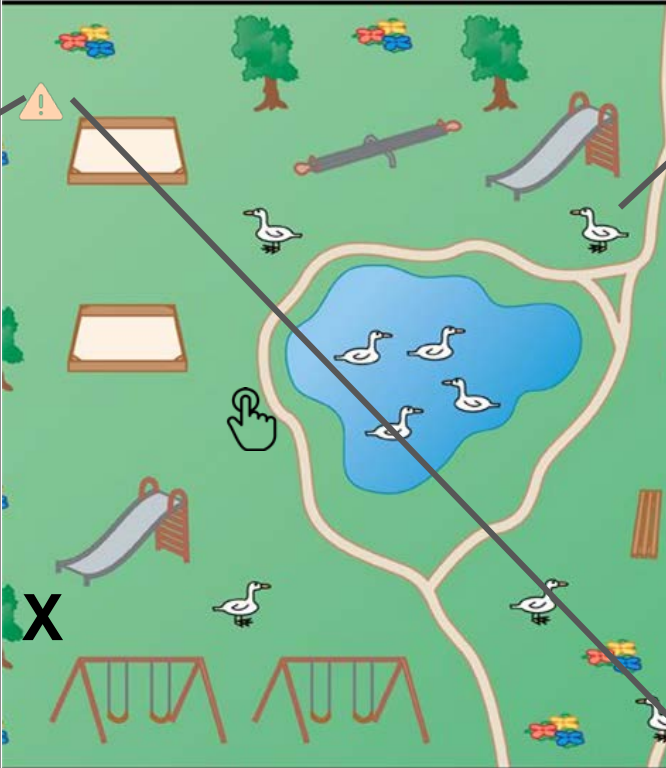
Download our Smart Park Map app




Park Map App

Drag & Drop icons on map to tag places

Edit Park

 SOS   Challenges Search 



  Pocket Mode 

Safety Concern

Someone reported a safety concern here. Do you agree ?

YES

NO

Do you agree with the suggested improvement ?

YES

NO

You receive 5 points

Animal Sighting

What kind of animal ?

Ducks

Upload a Picture?



You receive 5 points

Description of issue

It's too dark here.

Suggest an improvement

Lights

You receive 5 points

Park Map App

Drag & Drop icons on map to tag places

Edit Park

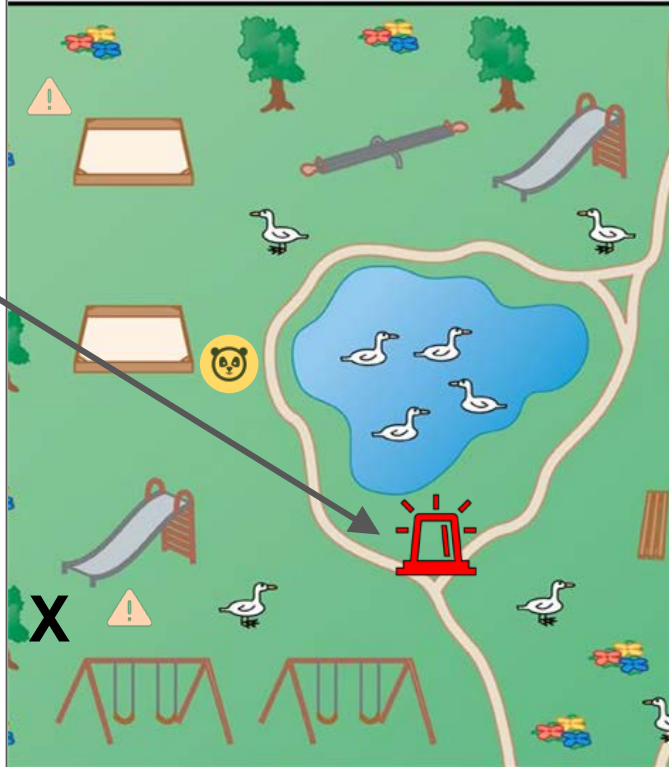


Challenges

SOS



Search



SOS

Creates a marker at your location that is displayed on all nearby maps. Also alerts park security.

SOS

Do you confirm there's an emergency?

YES

NO

Your SOS has been sent. Would you like to describe the emergency ?

Would you like to call 911 ?

YES

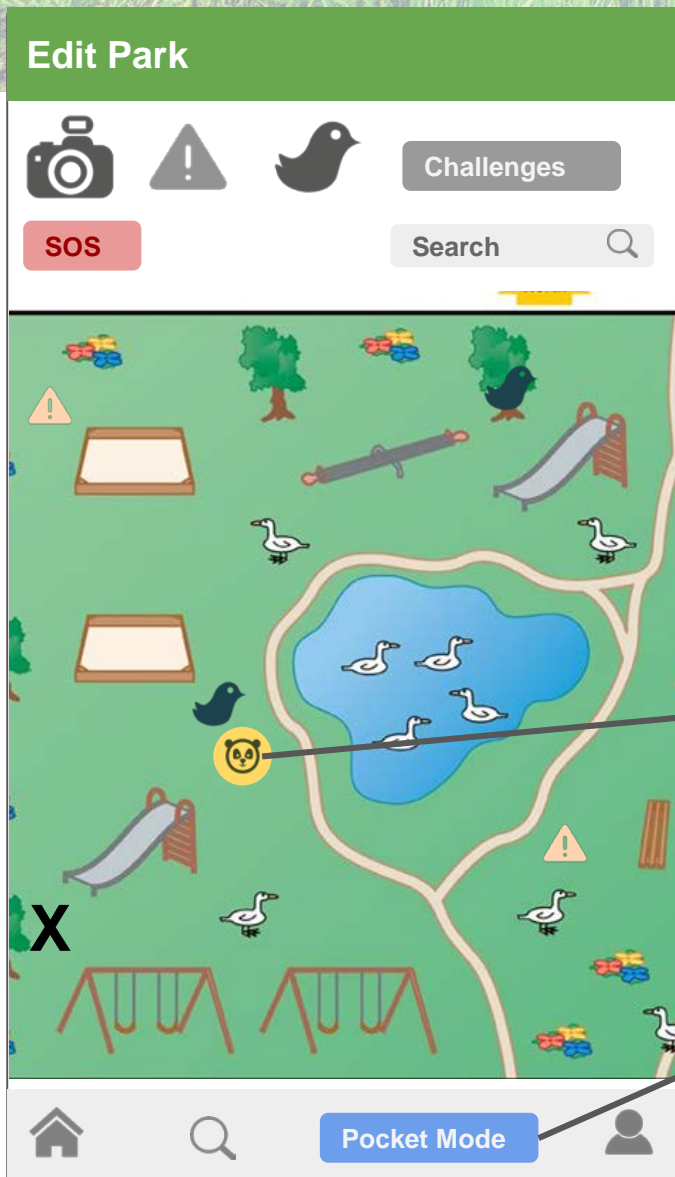
NO



Pocket Mode



Park Map App




The phone vibrates when walking in a distance of a tagged place.



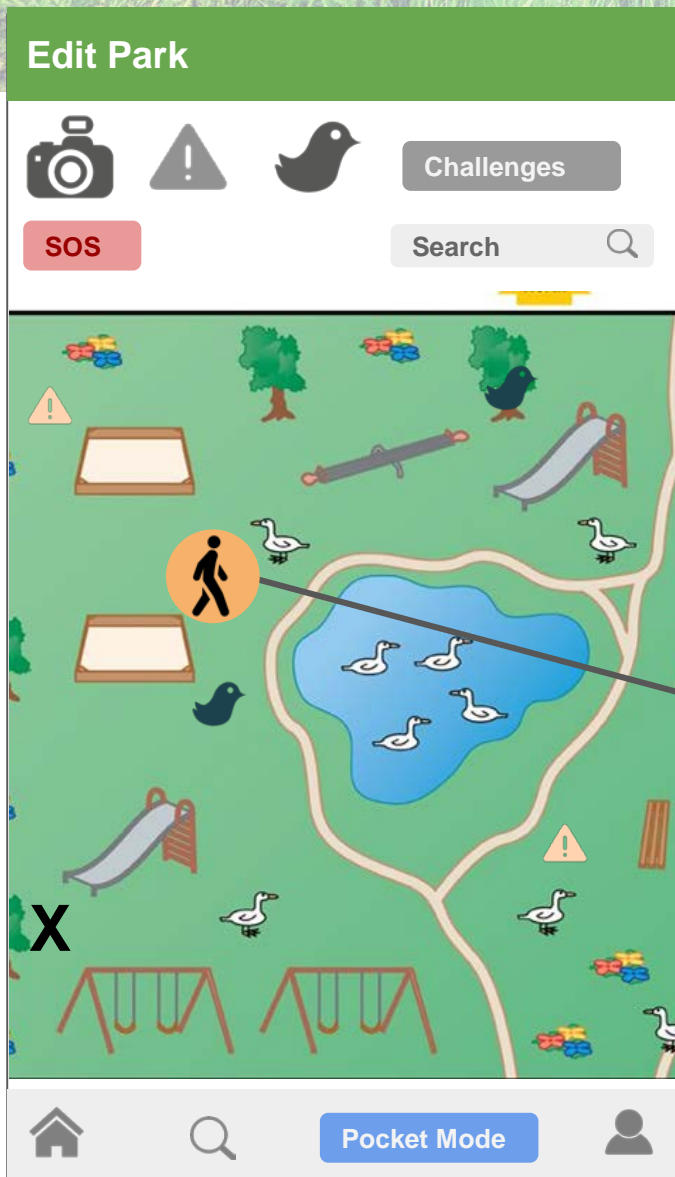
Notification: Animal Spot
Here is an interesting animal spot. READ SKIP

Pocket Mode
Set at which proximity level you would like to receive notifications



The slider control consists of five dots in a row above a horizontal line. The second dot from the left is filled, indicating the current proximity level setting.

Park Map App



The phone vibrates when walking in a distance of a tagged place.



Notification: Take A Challenge?
Here is a walking challenge spot, 20 people have taken the challenge.

Park Arts



Makes creating and promoting events in parks easy.


Creates a reel of highlighted events for users



Allows users to become featured artists and promote their events in the parks

Park Arts

Home Page





Search

Check In

Host an Event


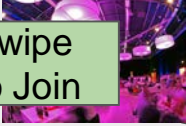

Become an Artist

My Upcoming Clubs/Events

Name	Status	Name	Status
	Time		Time




Scrolls

Events/Clubs Nearby

	Description	Time	<input type="checkbox"/>	<input type="checkbox"/>
	Description	Time	<input type="checkbox"/>	<input type="checkbox"/>
	Description	Time	<input type="checkbox"/>	<input type="checkbox"/>

Swipe to Join

Scrolls



Your Event

Where:

When:

Alcohol:

Bounce House:

Private/Public

Loud Music:

Collecting Money:

Charity:

Organization:

Food:

Tags:

Description

Pictures



Submit

Cancel



Artist Profile

Parks:

Type:

Do you understand the sound rules:

Loud Music:

Collecting Money:

Charity:

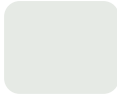
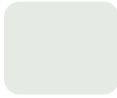
Organization:

Food:

Tags:



Description

Samples



Submit

Cancel



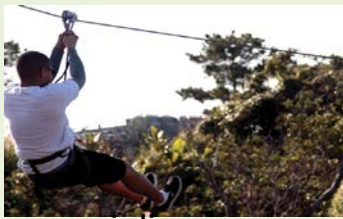
Park Share System - - Overview



Provides an easy way to rent cool stuff to use in the park either through the mobile app or through Kiosks available at the park



Park Share System - - Rental List



ziplines



metal detector



croquet sets



laser tag



bikes



basketballs



telescopes



zorbs



literature



binoculars

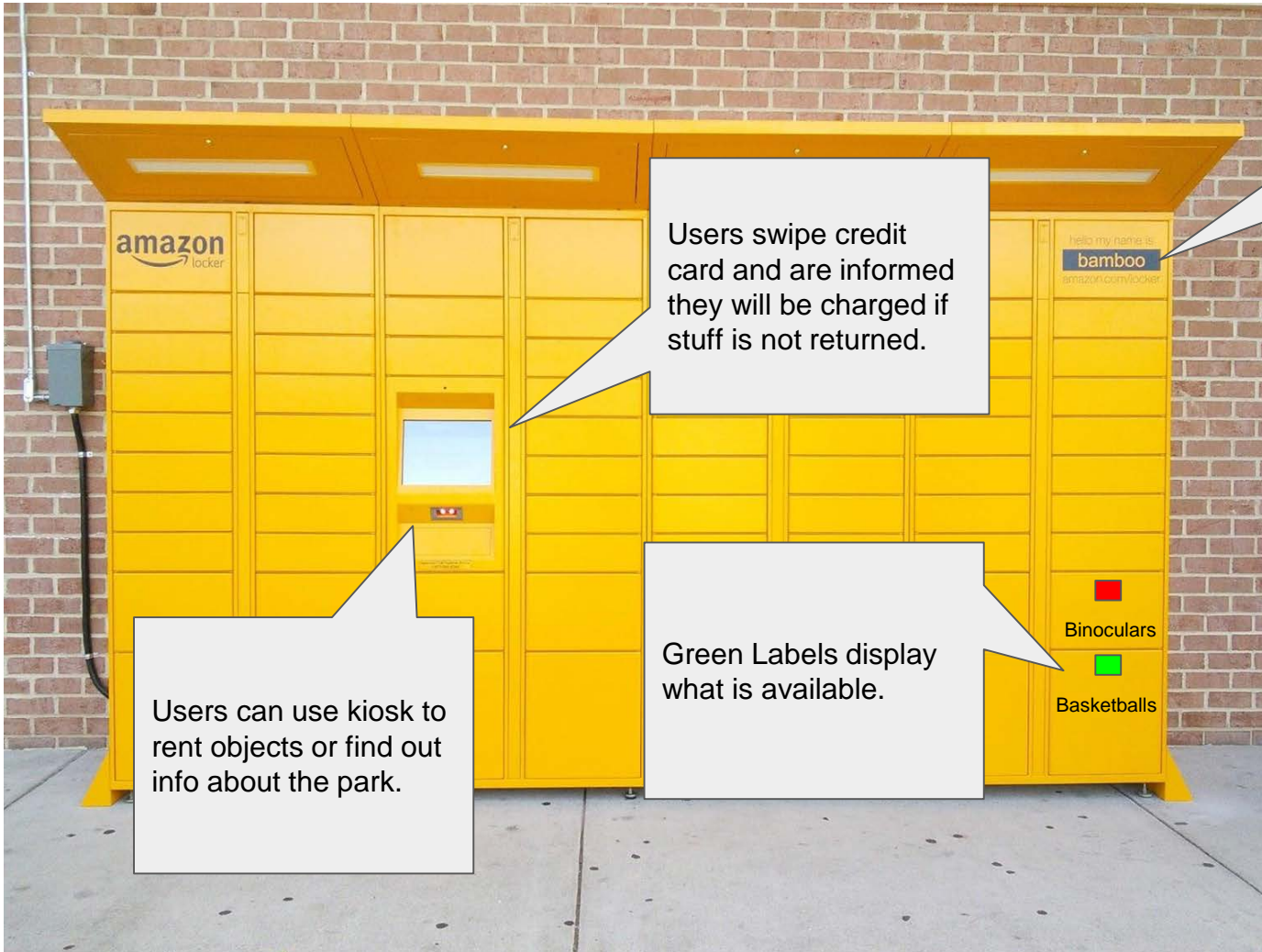


tennis rackets



umbrellas

Park Share System - - Kiosk System



Users can use kiosk to rent objects or find out info about the park.

Users swipe credit card and are informed they will be charged if stuff is not returned.

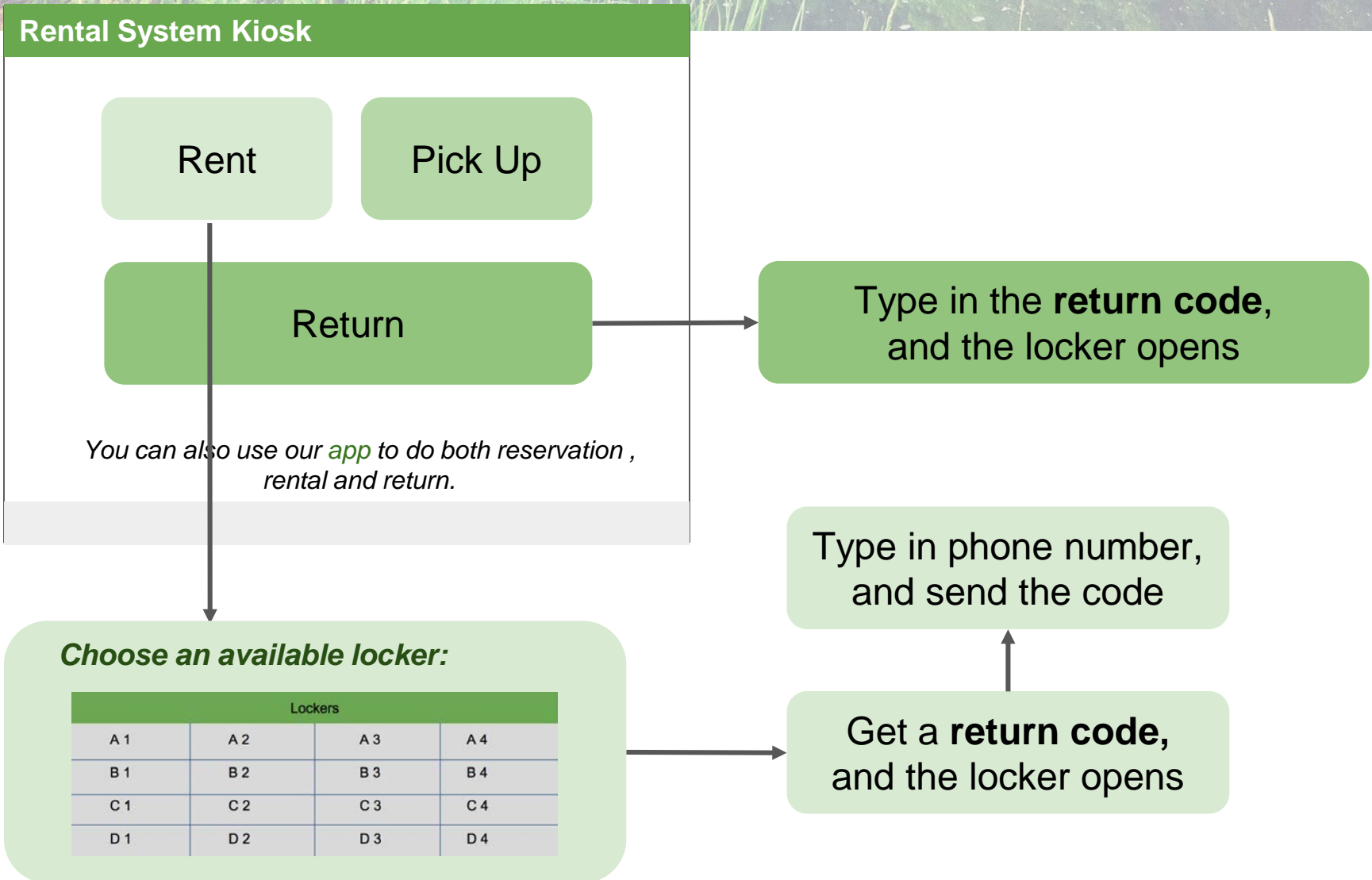
Green Labels display what is available.

Camera system in lockers checks to make sure items have been returned.

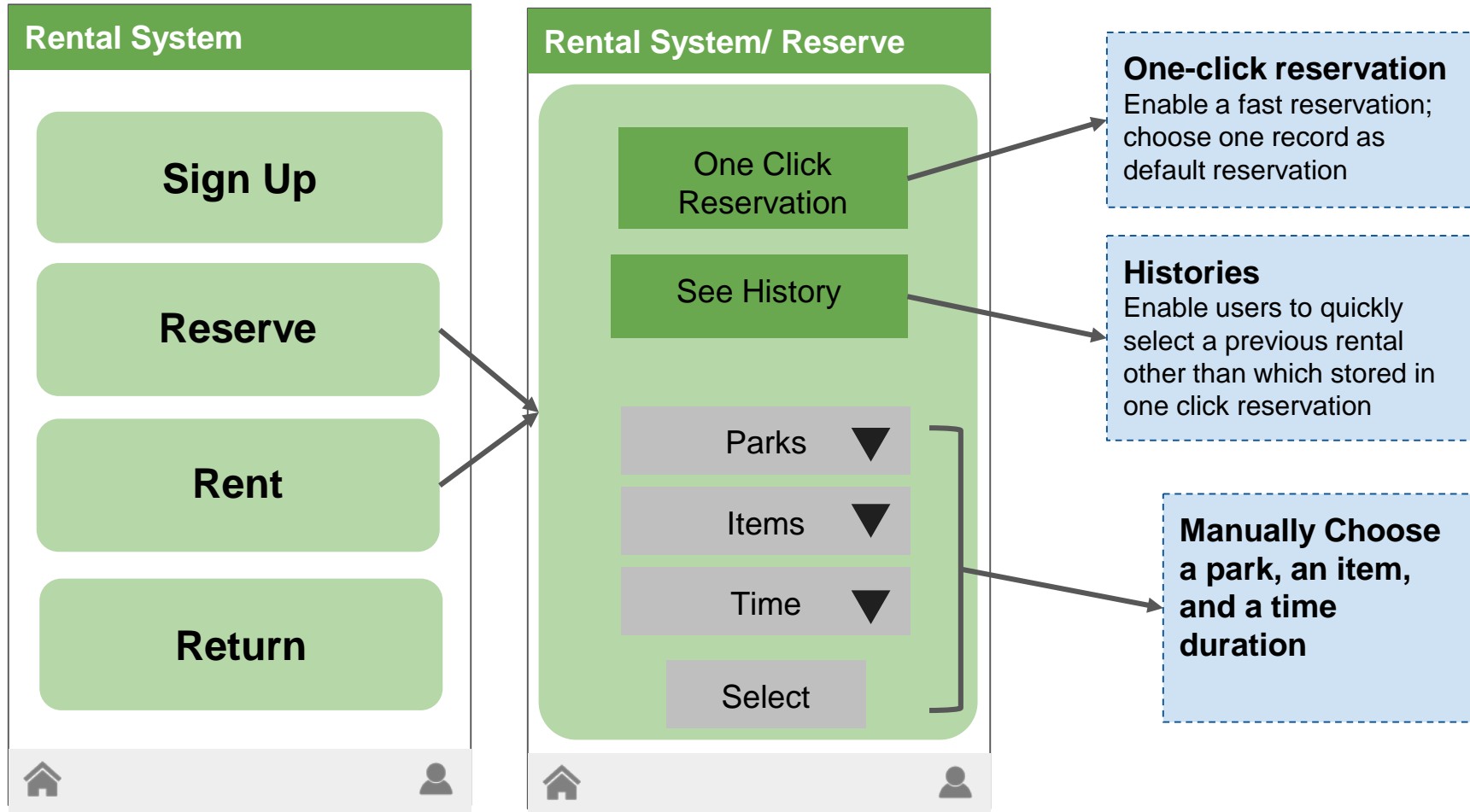
Expensive Items equipped with GPS tags which will scream and alert authorities if removed from the park.



Park Share System - - Kiosk System



Park Share System - - App System



Park Share System - - App System

Rental System/Sign Up

Account name:
Password:
Re-enter password:
Phone number:

Credit Card: +

Set my one-click reservation: +

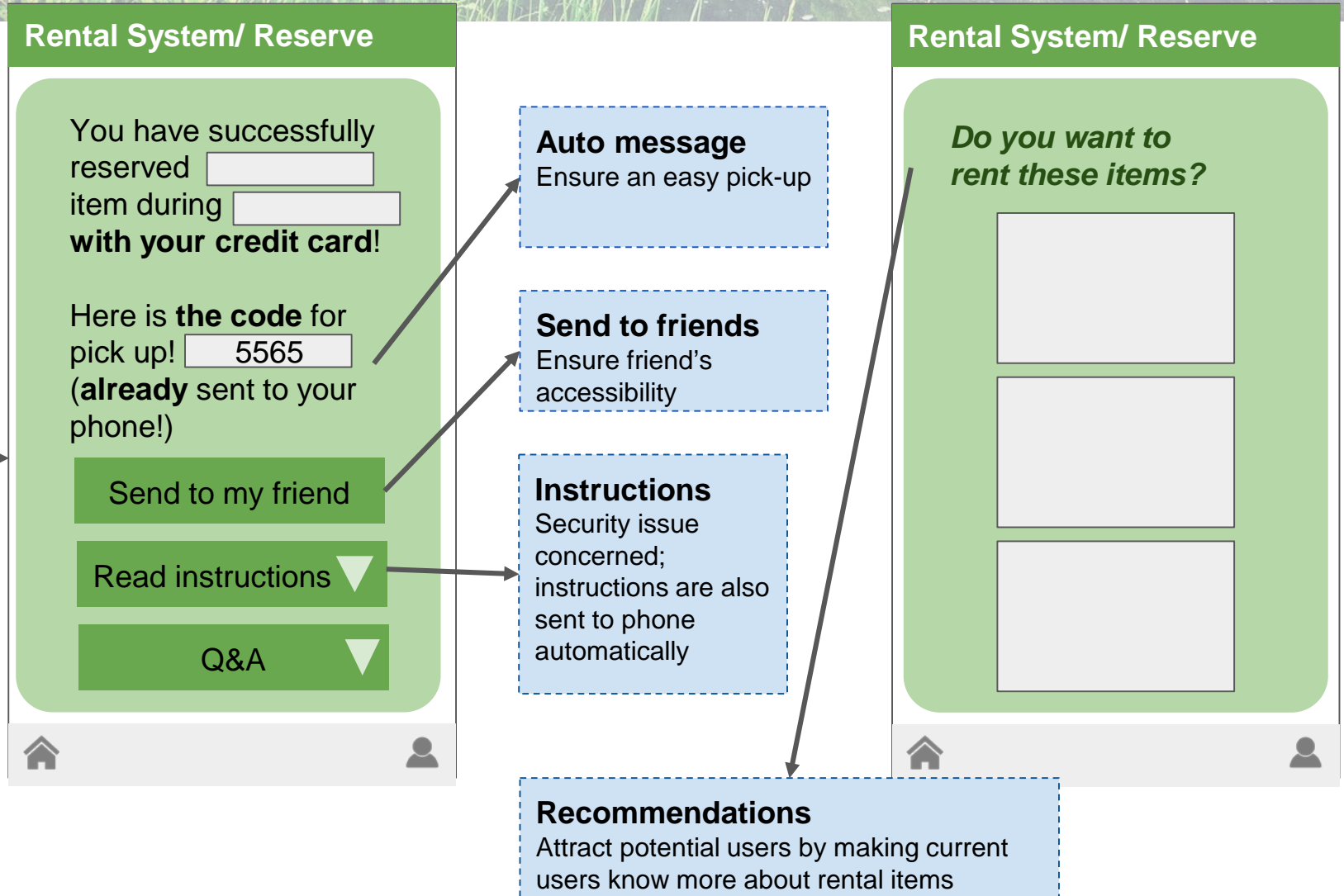
Sign Up Now

Credit Card
Need credit card for sign up; Use it when doing rental and reservation

Personal Panel
personal information like credit card and phone number are stored here

The screenshot shows a mobile app interface for signing up. At the top is a green header with the text 'Rental System/Sign Up'. Below this is a light green rounded rectangle containing the sign-up form. The form has labels for 'Account name:', 'Password:', 'Re-enter password:', and 'Phone number:'. Below these are two expandable sections: 'Credit Card: +' and 'Set my one-click reservation: +'. At the bottom of the form is a green button labeled 'Sign Up Now'. At the very bottom of the screen is a grey navigation bar with a home icon on the left and a user profile icon on the right. Two callout boxes with dashed blue borders point to the 'Credit Card: +' label and the user profile icon, providing additional context.

Park Share System - - App System



Physical Redesign

Playground equipment that lights up in the parks in the evening will create a cool buzz brand for the park and support activities in winter and evening when millennials want to go.

Playgrounds for all; swing sets that can be adjusted for height by adults and kids alike.

Light Up Park



Warmup Campfire



Electric campfire to provide a cozy spots for millennials to sit down with friends.

Safety mechanism around the heated parts and automatic presence detection.

Physical Redesign



Selfie Spots

To create a social parks experience, selfie spots will photo booth style cameras will be placed.

Individuals and groups of people like clicking pictures in the park near trees and flowers.

Tables numbered and organized in the parks for food delivery from nearby restaurants.

List of restaurants and their phone numbers will be at the table for park users to order food.

Food delivery tables



Physical Redesign

Challenge Trails

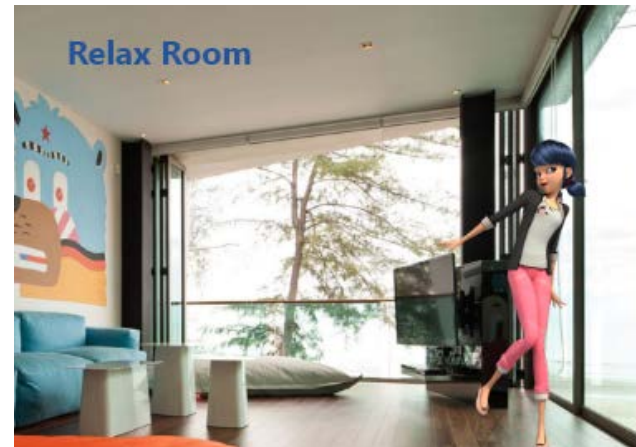


Challenge trails hosted in various parks for people to do intense physical activity without preparation.

Competing with self, others and scoreboard to keep trying the challenges multiple times.

Relax rooms provide a open view of the park along with the comfort of a home.

Millennials can sit back, read, charge their phones, listen to music even at parks.



Value proposition – many avenues to products

Social park experience for individuals and groups

- Food delivery tables, selfie spots and night lights around the park
- Allow artists to perform as well as display their art
- Electric fireplaces to combat the cold weather

Inclusive park play and amenities for all

- Adjustable swing sets and challenge trails for kids and adults
- Accessible bathroom facilities, rental lockers and equipments on demand

Challenge and fun activities as well as equipments available at the park

- Allow creation, submission and acceptance of challenge trails for users
- LCD screen showing the map and sighted events in the park.

Immersion in nature and creating eco-friendly awareness

- Relax shelters for a secluded and peaceful environment
- Trash can design to teach about biodegradable waste

Content driven parks app/website

- Park info including real time and upcoming events contributed by park users' and staff
- Online rental service, upcoming events, event registration from artist and event/activities stats happening in the park.

Next Steps

Scope the next phase based on the vision

- Identify which product concepts will be designed in detail

Define the details of the scoped design

- Storyboard to work out the details of the vision
- Create preliminary User Environment Design to structure the system
- Identify interaction design patterns for an initial user interface
- Create initial prototype in paper for customer testing

Validate concept, function and interaction design with paper prototype interviews with customers

- Iterate in 2-3 rounds of paper prototype testing
- Interpret user feedback from prototype interviews
- Make changes based on the interpretations

Create an online click-through prototype

- Test the interaction and visual design in online format
- Iterate the design with 2 rounds of users to ensure overall acceptance

Document the tested design for transition to development

A scenic view of a pond with a boat and trees. The pond is surrounded by lush green trees and grass. A boat is docked on the left side of the pond. The sky is blue with some clouds. The text "Thank you!" and "Q&A" is overlaid on a green rectangular background in the center of the image.

Thank you!

Q&A