

Pick-Up Sportz

Product Requirements Document

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1. Goals

What is the purpose of this project?

The purpose of this project is to develop a mobile application for users to play a sport of their choosing with other people by connecting with others through the app.

What are the problems it will solve?

The product of this project will solve user's problems such as not having anyone to play sports with, not being able to find areas for a specific sport, or even not having the required equipment to play a game.










How will it streamline or improve the current process or facilitate a new process?

Currently, the only way people play sports is going to a park or facility and hope that other people that want to play the same sport are there. With the Pick-Up Sportz Application, it eliminates the guessing normally required to determine if others are there and will allow the user to play any sport according to their schedule, instead of waiting for other people to be free. The application will also help users that do not have any equipment to play a sport, and link them with other users that do have equipment to start a game.

What is the product vision?










This product will fill the void in looking for a pick up game. The app will not only serve as a way for people to connect over sports in person, but be a mix between social media and real life interactions. Through the app people of all backgrounds will be able to start playing a sport that they've never played before, or continue playing the sport they love in ways that have never been done before. Eventually through leagues set up by the app, amateur local leagues will become synonymous with the leagues run by Pick Up Sportz wherever league organized sports are played.

2. User Personas

NAME	MARKET SIZE	TYPE
:: Samuel Simmons ↻	 35 %	Idealist ⚡
	:: Goals I want to look for a game comfortably that I can play with my friends and/or strangers at a park near me without the hassle of asking strangers at the park or friends who are/aren't free.	
	:: Background I grew up in a rural area in Minnesota and recently moved to an urban city where I met a lot of friends. I am athletic and play many different sports. My favorite sport that I like to play is Basketball. Ball is life.	
:: Demographic  Male 26 ↕ years  United States + ADD FIELD	:: Motivations To play sports in my free time. To be healthy. To make new friends. To make some connections that can be beneficial.	:: Frustrations Hard to make friends with a busy lifestyle Hard to confront strangers Hard to find an activity that I like to play with others Hard to relieve stress
:: Technology     		




Persona 1:

Samuel Simmons is a 26 year old male who grew up in rural Minnesota and recently moved to a new urban city, where he met many of his new friends. He enjoys playing basketball, as it is his favorite sport. He is motivated to be healthy, make new friends, and play sports in his free time. He has difficulty confronting strangers, finding an activity to play with others, and relieving his stress. Given his busy lifestyle, he is also frustrated in his attempts to make new friends. His goal is to look for a game comfortably, so that he can play with his friends or strangers at a park near him, without hassling them.

NAME		MARKET SIZE	TYPE
:: Kevin Walsh		 59 %	Rational ?
	:: Goals		
	I want an easier time to host a pick up game so that its faster to invite friends/strangers to a game of my choosing near me.		
	:: Background		
	I am a college student that majors in management. I played sports throughout elementary and high school. I played tennis and basketball whenever I can and love meeting new people.		
:: Demographic  Male 19 years  United States + ADD FIELD	:: Motivations To getter at sports To make new friends To get healthy To relieve stress.		:: Frustrations Hard to find free time with friends Hard to get strangers to play a round of basketball Hard to find a reason to get fit
	:: Technology     		

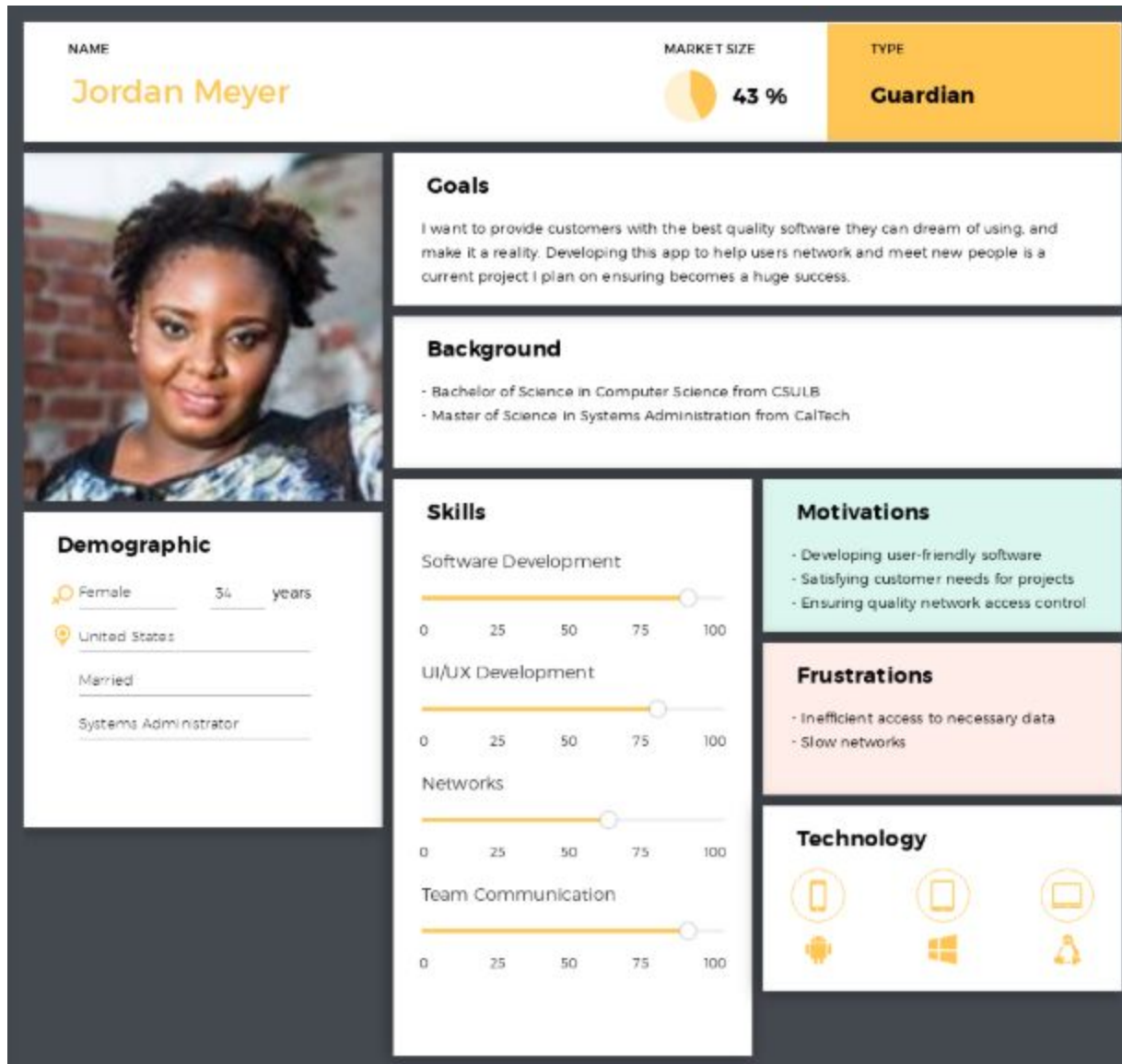
Persona 2:

Kevin Walsh is a 19 year old male college student currently majoring in Human Resource Management who loves to meet new people. He has played sports throughout elementary and high school. His favorite sports to play are tennis and basketball. He is motivated to improve at sports, make new friends, be healthy, and relieve stress. He has difficulty finding free time to spend with his friends, getting strangers to play a round of basketball with him, and finding a reason to get in shape. His goal is to have an easier time to host a pickup game so that it is faster to invite friends or strangers to a game of his choosing near him.

NAME Grace Hawkins		MARKET SIZE  6 %	TYPE Artisan
	Goals I want to find a group of people of the same gender that love the same things I do. In addition, I would love it if I can play sports with them that are near me.		
	Background Outgoing, athletic, like meeting new people, extrovert. College student that likes to play volleyball. Love meeting new volleyball players to play with outside of my time at school.		
Demographic Female 20 years United States + ADD FIELD	Motivations To get better at volleyball To broaden my friend group To have fun with friends that like the same things I do		Frustrations Hard to find people to play volleyball with especially with girls of the same age near me. Hard to find a park near me that has a volleyball court (Indoors/outdoors)
Technology 			

Persona 3:

Grace Hawkins is a 20 year old female college student majoring in Molecular Biology, who likes to play volleyball. She is outgoing and athletic. She also likes to meet other volleyball players who she can play volleyball with outside of school. She is motivated to get better at volleyball, broaden her friend group, and have fun with friends who have similar interests. She has difficulty finding a nearby park with indoor/outdoor volleyball facilities, and finding other girls near her age with whom she can volleyball. Her goal is to find a group of people of the same gender that share her interests, and would also like to play sports at a place near to her.



Persona 4:

Jordan Meyer is a 34 year old Systems Administrator who works within Amazon's Systems Administration Department. She is skilled in software development, UI/UX development, networks, and team communication. Her goal is to provide customers with the best quality software they wish to have, and make it a reality. She attended CSULB for a Bachelor of Science in Computer Science, as well as CalTech for a Master of Science in Systems Administration. She is motivated to develop user-friendly software, to satisfy customer needs, and to ensure quality network access control. She is frustrated by inefficient access to necessary data and slow networks. She uses technology such as Android, Windows, and Linux.

NAME Will Hopper		MARKET SIZE 63 %	TYPE Rational	
	Goals I want to ensure that my fellow management team members and I provide clear and concise information about our work and our future plans for projects.			
	Background - Bachelor of Science in Computer Science. Minor in English. from UC. Berkeley			
	Demographic Male 38 years United States Divorced Management Team Member	Skills Attention to Detail 0 25 50 75 100 Communication 0 25 50 75 100 Documentation 0 25 50 75 100 Team Management 0 25 50 75 100		Motivations - Efficient communication within team - Clear documentation of project work - Ensuring details are correct and precise
	Frustrations - Lack of participation from members - Incorrect documentation/project details		Technology 	

Persona 5:

Will Hopper is a 38 year old Management Team Member working within Google's App Development Department. He is skilled in communication, documentation, and team management. He also has a high attention to detail. He wants to ensure that he and his fellow team members provide clear and concise information about their current work and their future plans for projects. He graduated from UC: Berkeley with a Bachelor of Science in Computer Science with an English minor. He is motivated by efficient communication within his team, clear documentation of current project work, and correct and precise details about current work. He is frustrated by a lack of participation by other team members, and incorrect documentation about project details. He uses technology such as iOS, Android, and Windows.

3. User Stories

Epic 1: As a management team, we want to be able to have the required documents for a software development process, so that our product is successful.

- **SRP1:** As a member of the management team, I want to be able to have a Business Requirements Document, so that I can describe the characteristics of our proposed system.
- **SRP2:** As a member of the management team, I want to be able to have a Management Plan, so that I can understand how the project is executed, monitored, and controlled.
- **SRP3:** As a member of the management team, I want to be able to have an interactive Sprint Board, so that we can determine tasks that need to be completed for the current sprint.
- **SRP4:** As a member of the management team, I want to be able to have a Product Requirements Plan, so that we can understand the requirements for the product.
- **SRP5:** As a member of the management team, I want to be able to have an Architectural and Design Documents, so that we can understand the structure and layout of our product.

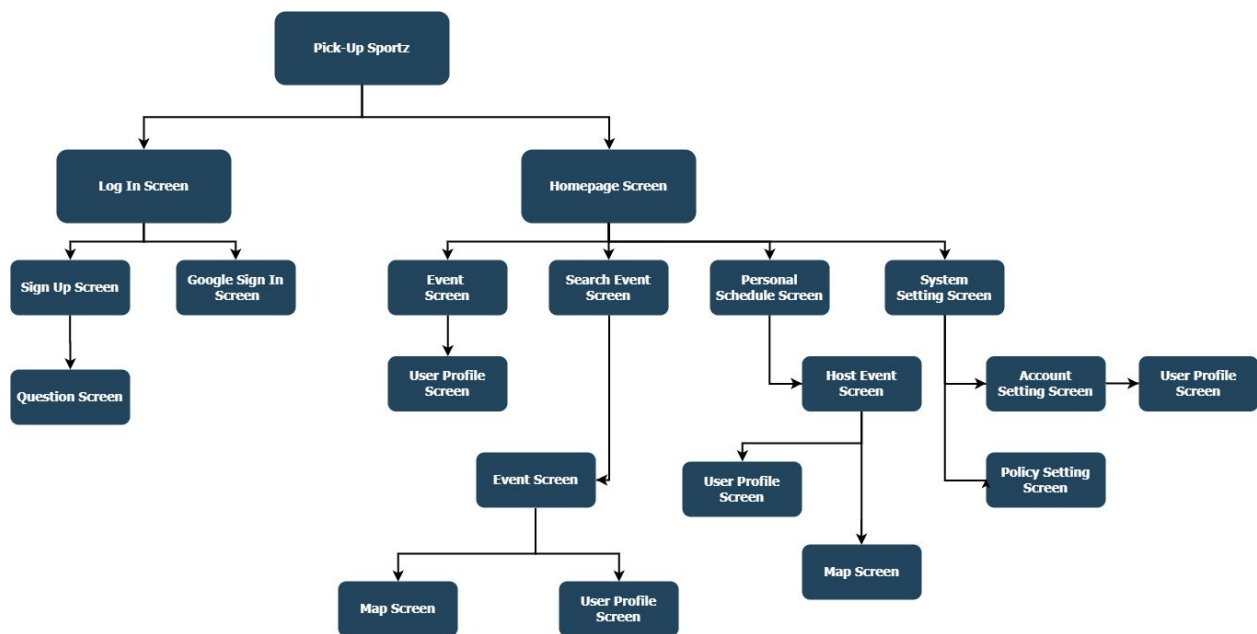
Epic 2: As an administrator, we want to be able to have a backend, such as a server, database, and Machine Learning algorithms, working in synergy, so that our product performs at the highest level of design.

- **SRP1:** As an app admin, I want to be able to communicate with a database, so that I can keep records of all information within the app.
- **SRP2:** As an app admin, I want to be able to have our database communicate with our application, so that our database can start to save the users information.

Epic 3: As a player, we want to be able to have an application that will allow us to create pick-up games for any sport and allow strangers to join our games, so that we can have fun, network, and exercise while playing our favorite sports.

- **SRP1:** As a player, I want to be able to create a profile that shows my age, skill level, and preferred sports, so that I get notified when a related game is started.
- **SRP2:** As a player, I want to be able to use a user's manual, so that I understand how to use the application.

4. Server Sitemap



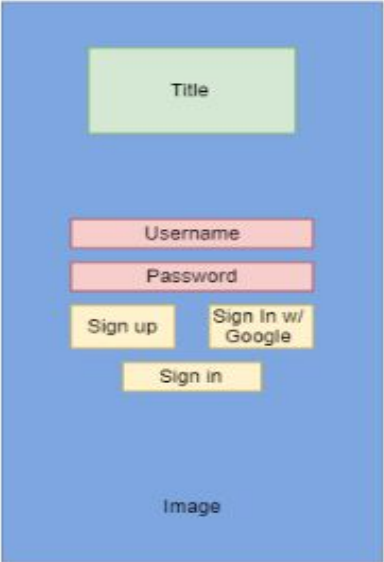
5. Page Description

Page	Elements
Login	<ol style="list-style-type: none">1. Title2. Username3. Password4. Sign Up button5. Google Sign In Button
Sign Up	<ol style="list-style-type: none">1. Title2. First name3. Last name4. Email5. Street Name6. City7. State8. Zip Code9. Date of Birth10. Username11. Password12. Sign Up button13. Cancel/Back button
Question/Personality	<ol style="list-style-type: none">1. Questionnaire2. Submit button3. Back button
Google Sign In	<ol style="list-style-type: none">1. Title2. Emails Detected3. Sign In button4. Back button
Homepage	<ol style="list-style-type: none">1. Title2. Events list
Event	<ol style="list-style-type: none">1. Title with banner/image2. Description3. Date/time4. Address5. Directions/Map button6. Join button7. Back button

Search Event	<ol style="list-style-type: none"> 1. Title 2. Search bar 3. Go to Event Details button 4. Filter button 5. Result list
User Profile	<ol style="list-style-type: none"> 1. Title 2. User info 3. Description
Map	<ol style="list-style-type: none"> 1. Geographical Image of Location
Personal Schedule	<ol style="list-style-type: none"> 1. Title 2. Filter button 3. Add button 4. List of events in schedule
Host Event	<ol style="list-style-type: none"> 1. Title 2. Event Title 3. Map button 4. Event Details (Time, Location, etc.) 5. Description 6. Add Event button 7. Back button
System Setting	<ol style="list-style-type: none"> 1. Title 2. Settings Options
Account Setting	<ol style="list-style-type: none"> 1. Title 2. Update First name 3. Update Last name 4. Update Email 5. Update Street name 6. Update City 7. Update State 8. Update Zip code 9. Update Date of birth 10. User profile button 11. Back button
Policy Setting	<ol style="list-style-type: none"> 1. Title 2. Policy 3. Back button


6. Wireframe

Log In



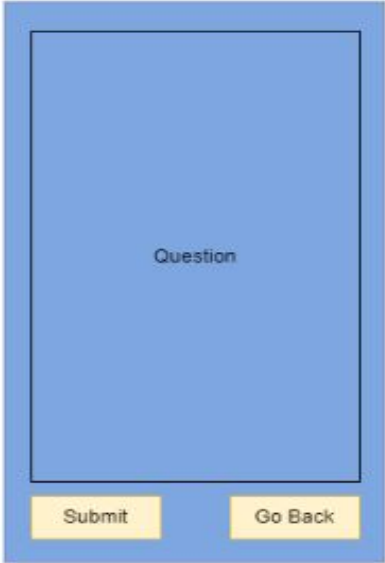
A wireframe for a login screen. It features a light green title box at the top. Below it are two red input boxes for 'Username' and 'Password'. At the bottom, there are three yellow buttons: 'Sign up', 'Sign In w/ Google', and 'Sign in'. An 'Image' label is at the very bottom.

Sign Up



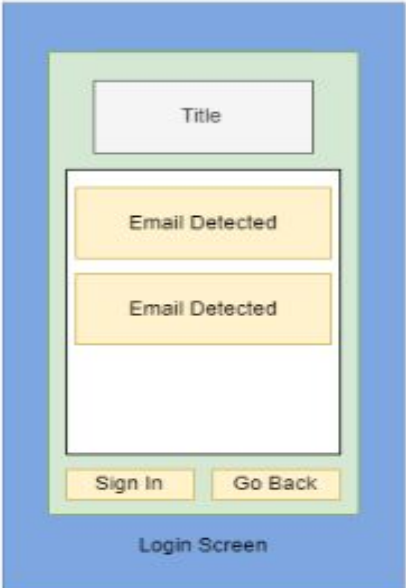
A wireframe for a sign-up screen. It starts with a light green title box. Below are several red input boxes: 'First name' and 'Last name' (side-by-side), 'Email', 'Street Name', 'City', 'State', and 'Zipcode' (side-by-side), 'Date of Birth', 'Username', 'Password', and 'Re-Type Password'. At the bottom are two yellow buttons: 'Sign up' and 'Go Back'.

Question/Personality



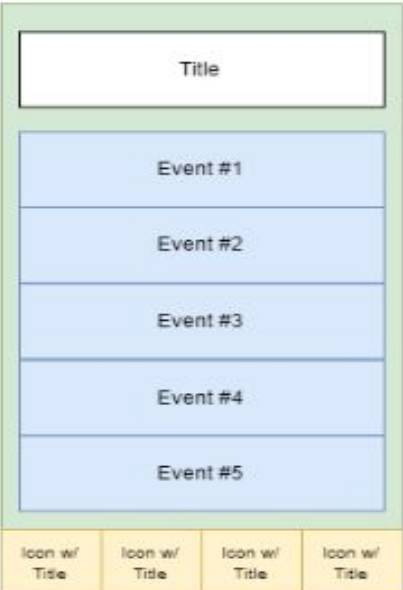
A wireframe for a question/personality screen. It has a large blue rectangular area in the center labeled 'Question'. At the bottom are two yellow buttons: 'Submit' and 'Go Back'.

Google Sign In



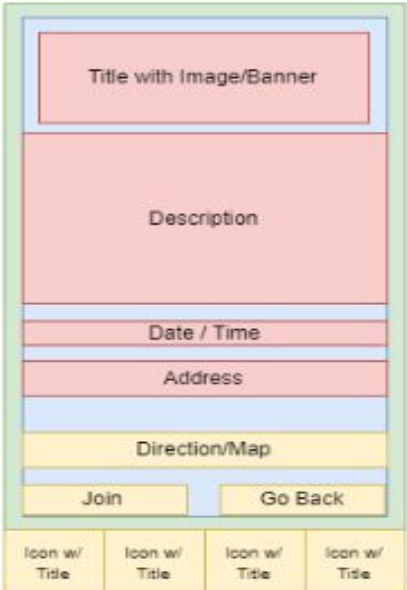
A wireframe for a Google sign-in screen. It has a light green title box. Below it is a white box labeled 'Email Detected'. At the bottom are two yellow buttons: 'Sign In' and 'Go Back'. The entire screen is labeled 'Login Screen' at the bottom.

Homepage

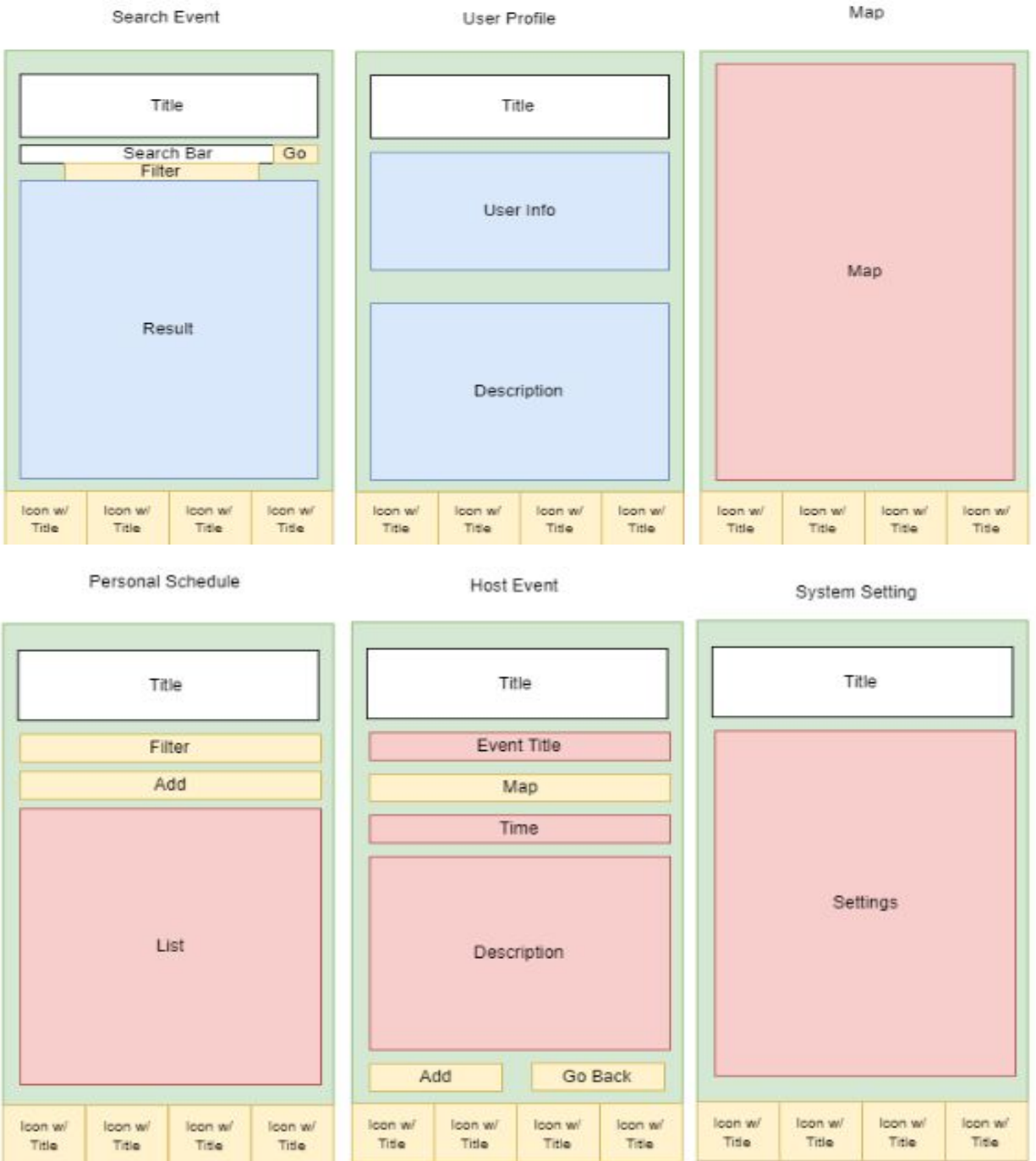


A wireframe for a homepage. It has a light green title box. Below it are five blue rectangular boxes labeled 'Event #1' through 'Event #5'. At the bottom are four yellow buttons, each labeled 'Icon w/ Title'.

Event



A wireframe for an event page. It has a light green title box. Below it is a red box labeled 'Title with Image/Banner'. This is followed by a large red box labeled 'Description'. Below that are three red boxes labeled 'Date / Time', 'Address', and 'Direction/Map'. At the bottom are two yellow buttons: 'Join' and 'Go Back'. At the very bottom are four yellow buttons, each labeled 'Icon w/ Title'.



Account Setting

Title

First name

Last name

Email

Street Name

City

State

Zipcode

Date of Birth

User Profile

Go Back

Icon w/
Title

Icon w/
Title

Icon w/
Title

Icon w/
Title

Policy Setting

Title

Policy

Go Back

Icon w/
Title

Icon w/
Title

Icon w/
Title

Icon w/
Title

7.Interfaces

-
- Users
 - Input Controls: buttons, text fields, toggles, date field, etc.
 - Navigational Components: Sliders, search field, tags, icon, etc.
 - Information Components: notifications, message boxes, etc.
 - Admins
 - Similar to User Interfaces with extra interfaces such as buttons to disable some functions, monitor activity, etc.
 - Channel Partners
 - Host an event with interfaces that are similar to User Interfaces
 - External APIs
 - Interaction with the maps for parks, droppable pins to parks, etc.

8. Additional Functional Requirements

- Security
- Communication
- Notification

9. Non-Functional Requirements

- Reliability - Information and data are reliable.
- Maintainability - Profile, schedule, and data are easily maintained.
- Accessibility - Application can be accessed via phones, tablets, and computers, each with different operating systems.
- Credibility - No scams or harm in info/data.
- Amiability - Focus on networking and making friends.
- Satisfiability - Easier on the eyes and stress free UI.
- Detectability - Detects bots and scams. In addition, smoother detection of events.
- Performability - Smoother and faster application performance

10. Performance Requirements

Web Based Requirements:

- Smooth flow of website depends heavily on the internet connection.
- Regulated online traffic for better performance.
- A strong security to prevent scammers and bots.
- A dedicated browser for better performance.
- A recommended operating system.
- Some plugins that can help better the performance.
- Dedicated web server to handle user, data traffic, and security.

Phone/Tablet Requirement:

- Specific operating system for better performance on data handling and UI.
- Minimum requirement hardware for better performance on data handling and UI.
- Dedicated mobile server, if it is on an app.
- Latest upgrade on tablets and phones for up-to-date versions
- Dedicated web server, if accessed on the web.
- Strong internet connection to access maps and other events.
- Security to prevent scammers, data leaks, and bots.

11. Future Iterations

Future Iterations:

- Security of Database and other confidential data
- Logs/Monitoring choices
- CI/CD choices
- Process decisions