Product Requirements Document

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**Hangout**

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# Goals

## Purpose

Society today is more merged with the internet and technology than ever before. It becomes ever-more apparent that software products are more of a necessity in modern life. Hangout is a web application that increases the ability of social-networking to a more events-based outlook. This product will make it much easier to meet new people and find new things to do using software.

## Vision

Hangout aspires to be a web application that people all over the country can access. Anyone with an internet connection can create an account, post events, join other people’s events, and add friends. Ultimately we want our product to be able to sustain millions of active users who are hanging out with each other and creating new connections every day.

Our goals are to create and maintain a product that allows people to interact with others, spend a lot of time using, and integrate into people’s day-to-day lives.

## Product Timeline

In the next six months, we will be developing our product to have a fully functioning web application that implements machine learning to help better serve our customers. By February 2020, we plan to complete code implementation of all the essential features of the application.

From this point we will take user feedback to determine what features our product is lacking and what adjustments we need to make to our product. From February to May 2020, we will be tweaking and adjusting all necessary changes needed for our product.

# Personas

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| Man Wearing Black Zip-up Jacket Near Beach Smiling at the Photo | ***Michael Smith***  He used to play volleyball in college, but now with his wife and kids hasn’t played in a long time. Dedicated to his work and family. | **Age:** 32  **Job:** Physical Therapist  **Education:** Master’s Degree  **Family:** Married w/ children  **Location:** Los Angeles, CA |

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| **Goals:**  - Wants to start playing volleyball again  - Find a way to play that fits his schedule | **Frustrations:**  - Doesn’t know anyone to play with  - Very packed schedule, not a lot of free time |

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|  | ***Jim Johnson***  Starting his first semester at CSULB and doesn’t know anybody at his new school. Wants to meet new people, but a lot of the currently available options for activities and groups at the school don’t interest him. | **Age:** 18  **Job:** Student  **Education:** High School  **Family:** Single  **Location:** Long Beach, CA |

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| **Goals:**  - Wants to meet new people and make friends at his new school  - Try new things that he can be passionate about | **Frustrations:**  - Not satisfied with the available options of social events provided by his school  - Is in a completely new environment without knowing anybody around him |

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|  | ***Pam Jones***  Pam is a server and with her hectic work/school schedule, she finds it hard to stay motivated to get in shape. Most of her friends are just as busy as her and their schedules might not align very well. She wants to find a running buddy with the same schedule as her. | **Age:** 22  **Job:** Part-Time Student/Server  **Education:** Associate’s Degree  **Family:** Single  **Location:** Phoenix, AZ |

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| **Goals:**  - Find people in her area that she can work-out with to stay in shape  - Fit into her busy schedule a recurring event | **Frustrations:**  - Difficult to meet new people given the amount of responsibilities she has  - Running by herself is difficult and tedious |

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|  | ***Dwight Schrute***  Dwight needs to sell his old DVDs of Battlestar Galactica but cannot find buyers. He could ask around or set up flyers, but being a busy paper salesman, he cannot find buyers in time. He is trying to avoid trading them in at major retailers because he feels that he will get ripped off. | **Age:** 40  **Job:** Paper Salesman  **Education:** Bachelor’s Degree  **Family:** Married  **Location:** Philadelphia, PA |

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| **Goals:**  - Sell his Battlestar Galactica DVDs  - Reach a lot of people easily  - Meet others with a similar niche interest in Battlestar Galactica as him | **Frustrations:**  - Not very many people are interested in Battlestar Galactica  - Has difficulty interacting with other people |

# User Stories

## Epic - User Setup

Story - As a user, I want to be able to register an account easily from the home page.

Story - As a user, I want to be able to log into my account quickly from the home page.

Story - As a user, I want to be able to create a profile that represents me.

Story - As a user, I want to be able to edit my information (login, profile) easily as needed.

Story - As a user, I want to be able to select my interests so that I can get information that is relevant to what I like to do.

## Epic - Events

Story - As a user, I want to be able to quickly search for events based on keywords or interests.

Story - As a user, I should be able to create an event posting that can be seen by other users on the site.

Story - As a user, I want to be able to view other events that are posted.

Story - As a user, I want to join an event that is posted.

Story - As a user, I want to be able to edit an event that I have posted so that I can update it if there are any logistical changes.

Story - As a user, I want to delete an event that I’ve posted in case there is a reason that the event can no longer exist.

## Epic - Communication

Story - As a user, I want to be able to communicate with people that are participating in the same event with me.

Story - As a user, I want to be able to send private messages to users so that I can further communications with other people.

## Epic - Friends

Story - As a user, I want to have the ability to add friends and send a friend request to someone.

Story - As a user, I want to be able to view other people’s profiles to learn more about them.

Story - As a user, I want to be able to remove someone as a friend.

Story - As a user, I want to view what friends I have easily so that I can communicate with them or engage in additional events.

# Server Site Map

Comprehensive list of all pages or screens and the hierarchy between them.



# Page Description

Simple ordered list of major items included on each page, put the most important items at the top.

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| --- | --- |
| **Page** | **Elements** |
| Login | Username, Password, Forget Password |
| Create Account | Name, Username, Password, Email |
| User Home | Personal Navigation (Feed, Event, Search) |
| Event Home | Saved Events, Sign for Event, Create New |
| Event Create | Description, Date and Time, Person Limit, Location |
| Event View | Event Information |
| Search | Search Bar, Scroll Results |
| User Feed | Scroll Results |
| Account Recovery | Email, Security Questions |
| Website Home | Navigation, Login or Create |
| Group Message | Chat Display, Input |

# Wireframe

# Interfaces

Define interfaces with the external world.

* Users: A person with a confirmed account and without internal working privileges.
* Admins: A person to maintain site functionality with internal working privileges to the code, database, and server.
* Channel partners, if any
* External APIs
* External sites
* Others

# Additional Functional Requirements

No specific additional functional requirements thus far. All current functional requirements for our product are outlined within the user stories and epics.

# Non-functional Requirements

## Useability

* All processes for account creation take place in a single page.
* All of the user stories and potential pathways are simple and self-explanatory for the user to easily navigate our software.

## Reliability

* Login and account creation must demonstrate robustness with the capability of continued performance with invalid inputs (taken or invalid usernames or passwords).
* The product should react in a predictable way such that the user can have a consistently positive experience at all times.

## Performance

* The product should work quickly and efficiently so that people can quickly interact.
* Software elements should not lag or operate tediously, product performance and speed are paramount.

## Capacity

* Goals of the product is to ultimately be able to reach millions of people (monetization strategy is largely based on the ability to sell advertisements towards the user).
* Ability to maintain many active users and a large database of events and profiles.

# Performance Requirements

The product will be web-based and run on a web server.

Performance time for searches and page loading will be dependent on the strength of the internet connection and processing power. Additionally this will be dependent on the efficiency of the code to load elements and query the database quickly.

# Future Iterations

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| --- | --- | --- | --- |
| Future Features | Purpose | Priority | Timeframe |
| Account Creation, Login, Event Creation | Basic Requirements, Test Connections to Database and Server | Should Have | Jan. 2020 |
| Feed, Search, Event Display, Sign for Event | Additional Basic Requirements, Begin Implementing Full Solution | Must Have | Jan. 2020 |
| Group Messaging for Confirmed Events | Additional improvements to basic requirements. | Should Have | Feb. 2020 |
| Improve Feed with Machine Learning | After basic implementation, improve with machine learning. | Must Have | Feb. 2020 |