**Software Engineering CSC 648**

**Project Event Monkey**

**Section 1 Team 2**

Austin Ocampo - *Team Lead*

Micheal Hua - *Scrum Master*

Michael Maksoudian - *Back-End*

Sajan Gurung - *Back-End*

Robin Rillon – *Front-End*

Matthew Lee – *GitHub Master*

Milestone 1

September 28, 2022

**History Table**

|  |  |  |
| --- | --- | --- |
| **Date**: | **Revision Iteration:** | **Revision Notes:** |
| Sep 28, 2022 | Original | N/A |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Executive Summary:**

Event Monkey helps users make a personal connection with the world around them. New to an area or just want to get out of the house and explore? Event Monkey is your personal guide to the city! With our unique integration features such as .edu email recognition, which allows for a user to search events based on their school, and our “Try Something New!” option that searches random events; Event Monkey is a website for every adventurer, night-life seeker, and couch surfer.

Our features include social media integration (because everyone wants to know what their friends are doing) which allows for users to see posts based on the event or location they are looking at. Our specific .edu email recognition allows for users to specifically tailor events to their school. Included with our initial release is the option to create an account as an “Organizer” which allows for a user to post their own events to the website.

Here, at Team 2 Technologies, we are working tirelessly to ensure that our final product is the first consideration for our users. We are not only a team of developers, engineers, and computer scientists who are dedicated to making your social life a good life, but also a team that enjoys the fruits of their labor by exploring events around them!

**Personas and User Stories:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Priority | High | |  | | | Story ID | 0000-0001 |
|  | | | | | | | |
| Name |  | | | |  | | |
|  | | | | | | Skills | Rating |
| Icon  Description automatically generated | | D.O.B. | | October 18, 1999 | | Leadership | 5 |
| Gender | | Male | | Sports | 3 |
| Job | | Student | | Academics | 4 |
| Location | | San Francisco, CA | |  |  |
| Living Status | | Dormitory | |  |  |
| General Behaviors | | | | | Wants & Needs | | |
| * A hardworking and somewhat athletic student, who's studying music      * The club president of a new club that was just started last year      * Visits various classrooms to give short presentations about the club | | | | | * Wants an easy way to share upcoming promotional events for his club to attract new members      * Wants a simple way to share event details to a large amount of people | | |
| Frustrations | | | | | How Does the Application Help | | |
| * It's hard to share news and information about upcoming club events to people that aren't already apart of the club      * Many people don't pay attention to emails or information given at the beginning of classes, especially for lesser known clubs | | | | | * Provides a way to post your own events for many people to see      * Allows for many people to see the details of posted events      * Easy access to the event details | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Priority | High | |  | | | Story ID | 0000-0002 |
|  | | | | | | | |
| Name |  | | | |  | | |
|  | | | | | | Skills | Rating |
| Icon  Description automatically generated | | D.O.B. | | July 18, 1993 | | Organization | 4 |
| Gender | | Male | | Technology | 2 |
| Job | | Event organizer | | Management | 4 |
| Location | | San Francisco, CA | |  |  |
| Living Status | | Own house | |  |  |
| General Behaviors | | | | | Wants & Needs | | |
| * A recently appointed event organizer for a small, upcoming convention      * Only has a limited amount of technology knowledge and isn't up-to-date on the current social platforms | | | | | * Wants a way to share information about the upcoming convention to get more people to attend      * Wants a way to share event information that isn't too hard or complex to learn | | |
| Frustrations | | | | | How Does the Application Help | | |
| * There are many different platforms to share event information to people, which makes it hard to decide on where to share it      * Social platforms are rapidly changing, making it hard to learn about them enough to use and share information | | | | | * Provides a simple and clear platform to share event information without being too complex to learn      * Would allow many people to see the event information | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Priority | Medium | |  | | | Story ID | 0000-0003 |
|  | | | | | | | |
| Name |  | | | |  | | |
|  | | | | | | Skills | Rating |
| Icon  Description automatically generated | | D.O.B. | | May 15, 2001 | | Academics | 3 |
| Gender | | Male | | Social | 5 |
| Job | | Student | | Partying | 5 |
| Location | | San Francisco, CA | | Biology | 4 |
| Living Status | | With parents | |  |  |
| General Behaviors | | | | | Wants & Needs | | |
| * An average scoring student that attends SFSU, majoring in Biology      * Likes attending large and small events that are happening nearby, that he may find interesting | | | | | * Wants a centralized place to find information about upcoming school and social events that he may be interested in      * Wants to easily find information about many upcoming events in the area      * Wants some recommendations for events that he may be interested in | | |
| Frustrations | | | | | How Does the Application Help | | |
| * Various social events may be scattered through multiple platforms, making it hard to find out about all of them without following them all      * Information for upcoming school events may be hard to find, if even posted at all      * Smaller events are hard to find and are usually lost between larger events | | | | | * Provides a single point to access information about upcoming and nearby events      * Recommends events to users based on their interests and past events attended | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Priority | Low | |  | | | Story ID | 0000-0004 |
|  | | | | | | | |
| Name |  | | | |  | | |
|  | | | | | | Skills | Rating |
| Icon  Description automatically generated | | D.O.B. | | March 4, 2004 | | Partying | 4 |
| Gender | | Female | | Academics | 4 |
| Job | | Student | | Socializing | 5 |
| Location | | San Francisco, CA | |  |  |
| Living Status | | With parents | |  |  |
| General Behaviors | | | | | Wants & Needs | | |
| * A freshman at college who is planning on studying mechanical engineering      * Likes going out with friends and attending social gatherings | | | | | * A way to keep events, and event information, in an organized manner      * A way to save/ bookmark events without needing to keep track of multiple groups or pages      * A way to easily share and recommend event information to friends | | |
| Frustrations | | | | | How Does the Application Help | | |
| * Many events are always spread throughout multiple social platforms, such as Facebook, Twitter and Discord, making it hard to keep track of them all      * It is hard to make sure everyone in friend group knows about which events you are all planning to go to | | | | | * Provides a way to share event information to other members of the application; friends on the app      * Allows you to save and keep track of all planned events      * Give you reminders about events you planned to go to | | |

**Data Definitions:**

**Event**

A container holding event details (event name, *Venue*, event date, prices, *Classifications*, etc).

**Venue**

The location of the *Event*. A *Venue* has a name and location details (time zone, country, state, address, etc).

**Attraction**

Attractions found at the *Event*. Each *Attraction* has a name, a list of images, and a list of *Classifications*. Example: sports teams are *attractions* found at the sports *event*.

**Classification**

A container holding a *Segment*, *Genre*, and *Sub-Genre*. *Events* and *Attractions* encapsulate *Classifications*.

**Segment**

The primary genre for an event. This genre is broad (Music, Sports, Arts, etc). A segment can encapsulate a *Genre*.

**Genre**

The secondary genre for an event. This genre is more specific (Rock, Classical, Animation, etc). A genre can encapsulate a *Sub-Genre*.

**Sub-Genre**

The tertiary genre of an event. This genre adds more detail to the *Genre* (Alternative Rock, Ambient Pop, etc).

**Organizer**

A type of user who can publish *Events*.

**Attendee**

A type of user who can search for and save *Events* to attend.

**Functional Requirements:**

1. Login page
2. Sign up page
3. Edit profile button
4. Change profile picture
5. Change description
6. Home page
7. Add events
8. Search events
9. Filter/sorting section
10. Sections for popular types of events
11. In homepage, scroll left and right recommended events
12. Friend
13. Notification tab
14. Send events to friends
15. Save events
16. Favorites list
17. Calendar
18. Upcoming events tab
19. Mobile alert
20. Light/dark mode
21. Help page
22. **Sign up/ Sign in (Priority: high, user story id: 3)**
    1. If the user would like a personalized experience, the user should be able to sign up and login to personalize their profile
23. **Make an event (Priority: medium, user story id: 1,2)**
    1. To make an event, users must register and be registered as an event host to create events.
24. **Modify an event (Priority: medium, user story id: 1,2)**
    1. If anything changes regarding the event, users listed as an event host should be able to modify and update any changes such as whether or not an event has been cancelled, if the time of the event has changed, any age requirements for the event, and much more.
25. **Participate in events (Priority: low, user story id: 3,4)**
    1. To participate in some events that are free and open for everyone, users should register with their name, email address, or some way to contact them about the event.
26. **Customizing user profile (Priority: high, user story id: 1)**
    1. Users should be able to customize their profiles to their fullest extent. Contents such as bio, description, and common interests should be filled out to better analyze their type of events.
27. **Searching events (Priority: medium, user story id: 3,4)**
    1. Everyone including registered users and guests without credentials should be able to search for events. Searches can be very specific or very broad. For example, users can search something like “sports” or “football” or “49ers” or “49ers vs Seahawks”
28. **Popular categories on top bar (Priority: medium, user story id: 1)**
    1. The top bar will have popular categories so that it’s easier for users to specifically check out any events currently happening or that will be upcoming within the category. If the users select “Sports”, they should be able to find all events within a date range. There will also be categories within that will specify it even further. Using the example, if the user wants to check out events for basketball or hockey, they could click on the categories matching the title.
29. **Customized recommended section on home page (Priority: low, user story id: 1)**
    1. Just like Netflix, based on the users’ interest or the events that users have interacted with, the home page will make a recommended section that users can scroll left to right to seach for new events that they could be interested in.
30. **Calendar/ Scheduler (Priority: low, user story id: 1)**
    1. Users should be able to view a calendar that lists upcoming events that the user will be attending. This will allow the user to be organize and make sure that nothing overlaps the events
31. **Notifications (Priority: medium, user story id: 3)**
    1. Users should be able to have access to a notifications tab on the top bar so that they could get recommendations or receive notifications for an event they would be attending as a reminder and so that any changes made by the event host would also be notified by the attendees.
32. **Favorites (Priority: medium, user story id: 4)**
    1. Users should be able save and favorite events so that if they would like to register for the event again, they could easily find it in their favorites page.
33. **Help page (Priority: high, user story id: 1)**
    1. If anyone have trouble accessing the website, anyone could go to the help page and get assistance there.
34. **Event Randomizer (Priority: low, user story id: 3)**
    1. For anyone who is ambitious, adventurous, and would like to participate in an event that’s out of their comfort zone. This event randomizer will help with that. Just as how google has an “I’m feeling …” feature, the event listener will be the same, but randomizing categories of events
35. **Friends (Priority: low, user story id: 4)**
    1. With a social media-like friends system, users should be able to send events to friends and see if they’re interested to go as well. These friends could be actual friends or those who share similar interests as the user.

**Non-Functional Requirements:**

**Speed**:

- Application can handle more than 100 request per seconds

**Security**:

- Application will be secure only uses https protocol

- System may require users to create accounts to access the applications

- User informations will be safely secured in database with multiple security authentication

- Accounts locking mechanism will be forced after certain number of failed attempts

**Capacity**:

- In terms of storage we will be starting with 20 GB, but will increase as needed

**Compatibility**:

- Compatibility with multiple browsers like Chrome, Safari, Mozilla Firefox, Microsoft Edge

**Other**:

- Application will be up 24/7

- Data will be stored on one of the AWS server

- Git will be our version control tools and Github will be our main remote repository management

**Competitive Analysis:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Features** | **Ticket Master** | **Event Brite** | **Event Ticket Center** | **StubHub** | **Tickets Now** | **Event Monkey (Our Amazing Site)** |
| Friends List | No | No | No | No | No | Yes |
| “Try Something New” | No | No | No | No | No | Yes |
| Calendar | No | No | No | No | No | Yes |

The main advantage to our website compared to others is our Social Media integration. Our website allows for users to add friends and interact with other users within the website. Our “Try Something New” feature allows for users to view events that is outside their interest/hobbies. Our calendar feature also gives us an advantage over our competition due to the ability to see multiple planned events at once. Our layout is tailored for simplicity with a focus on user experience which would be less cluttered than our competitors

**High-Level System Requirements:**

Server Host: Amazon AWS 1vCPU 1gbRAM

Operating System: Ubuntu 20.04.1 LTS

Database: MariaDB 10.3.34

Web Server: Nodejs, Express

Server-Side Language: Javascript

Web Application Framework: Node v17.0.1

Additional Technologies:

IDE: Visual Studio Code, IntelliJ

Bootstrap

**Team:**

Austin Ocampo - Team Lead

Micheal Hua - Scrum Master

Michael Maksoudian - Back-End

Sajan Gurung - Back-End

Robin Rillon – Front-End

Matthew Lee – GitHub Master

**Checklist:**

* Team found a time slot to meet outside of the class
  + DONE
* Scrum Master shares meeting minutes with everyone after each meeting.
  + DONE
* Github master chosen
  + DONE
* Everyone sets up their local development environment from the team’s git repo.
  + DONE
* Team decided and agreed together on using the listed SW tools and deployment server
  + DONE
* Team ready and able to use the chosen back/front-end frameworks.
  + For each technology (front/back-end/DB/cloud) , team decides who will lead the study of each technology and what will be output of the (feasibility) study within one month.
    - Ex : implement sample about page using React
  + If you list a detailed study plan for this, earn extra point!
  + DONE
* Team lead ensured that all team members read the final M1 and agree/understand it before submission
  + DONE