Software Requirements Specification Document
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Version 02

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UniVents: Event Finder on Campus

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1. **Project General Description**

UniVents is a web application whose goal is to enhance campus life for college students by providing an easy to use UI that informs students of college events going around campus. With an interactive campus map and event filters, students can easily discover and tailor events to their interest.

2. **Product Features**

Below are the key features and functions that define the application UniVents:

Event Discovery: Students can browse and explore a variety of campus events, including social gatherings, club meetings, and sports events. Browse and filter campus events by date, category and location. UniVents ensures that students are always up to date on campus happenings.

Event Creation: Students and other people can host any type of event on campus, in hopes of growing and connecting the campus community.

Interactive Event Engagement: UniVents features an intuitive interface that allows users to interact with event listings seamlessly. Students can mark events as 'Interested' to receive updates, or dismiss those that do not align with their interests.

Event Review and Commenting: Enables seamless interaction between users and providers through a dedicated comment section, allowing for comments, replies, and discussions. Users can leave reviews on attended events or ask questions, helping future visitors gain valuable insight for events.

3. Functional Requirements

3.1 Customer - Adrian Sam
FR0: Customers can create a profile.
FR1: Customers can update their profile.
FR2: Customers can see available events.
FR3: Customers can subscribe to events.
FR4: Customers can write reviews for attended events.
FR5: Customers can view their subscribed events and receive reminders.

3.2 Provider - Alexander Crubaugh
FR0: Users can create and modify a provider specific profile, including update and delete.
FR1: Providers can post and interact with their events including updating, removing events or event details.
FR2: Providers can post and append their events to a specific location on the campus map.
FR3: Providers will be able to categorize their event based on genre in their event details section.
FR4: Providers will be able to view event statistics such as how many people indicate ''interest'', RSVP count, number of comments, and number of views.
FR5: Providers can reply to comments and reviews on their posted events.

3.3 SysAdmin - Robertson Siu
FR0: Admins must be able to manage user accounts (approve, ban, or reinstate users).
FR1: Admins must be able to approve, edit, or remove event listings.
FR2. Admins must be able to limit event capacity and manage waitlists.
FR3: Admins must be able to moderate and remove inappropriate reviews.
FR5: Admins must have access to system usage statistics to track user engagement.

4. Non-Functional Requirements

4.1 Customer NFR: - Adrian Sam
NFR0: Event searches should return results within 5 seconds.
NFR1: Customer data should be secured.
NFR2: Notifications should be delivered at least 24 hours before an event.

4.2 Provider NFR: - Alexander Crubaugh
NFR0: Only authenticated users (providers) should be able to create, edit, or delete events.
NFR1: Event creation form should be intuitive and simple, taking less than 5 minutes to complete for any event type.
NFR2: Notification system must be able to deliver messages within 5 seconds of an event update.

4.3 SysAdmin NFR: - Robertson Siu
NFR0: The system must allow admins to moderate user activities (reviews, events, subscriptions, etc.) within 3 seconds of request submission.
NFR1: The system must have 99.9% uptime, ensuring admins can manage events and users at all times.
NFR2: Admin tools must remain accessible 24/7, with maintenance windows scheduled in advance.

5. Scenarios

a. 5.1 Customers - Adrian Sam

5.1.1 Profile Management
a. **Initial Assumption:** The user is logged in and on their profile page.
b. **Normal:** The user fills out their profile and submits it. The Profile gets updated.
c. **What Can Go Wrong:** If the user misses the required fields an error message will show up.
d. **Other Activities:** The user can cancel changes and go back to the home page.
e. **System State on Completion:** The profile is updated.

5.1.2 Viewing Available Event
a. **Initial Assumption:** The user is logged in and on the event browsing page.
b. **Normal:** The user browses events based on preferences and location.
c. **What Can Go Wrong:** If no events match the user criteria a message will display.
d. **Other Activities:** The user can filter events by category, date, and location.
e. **System State on Completion:** The user views a list of available events.

5.1.3 Subscribing to an Event
a. **Initial Assumption:** The user selects an event they want to attend.
b. **Normal:** The user clicks subscribe and the event is added to their schedule.
c. **What Can Go Wrong:** The event is full or canceled before they subscribed.
d. **Other Activities:** The user can cancel their subscription.
e. **System State on Completion:** The event is successfully subscribed and reminders are set.

5.1.4 Writing a Review
a. **Initial Assumption:** The user has attended an event and wants to leave a review.
b. **Normal:** The user writes a review and submits it.
c. **What Can Go Wrong:** The user submits an empty review and receives an error message.
d. **Other Activities:** The user can edit or delete their review later.
e. **System State on Completion:** The review is listed and other users would be able to see it.

b. 5.2 Provider - Alex Crubaugh

5.2.1 Creating An Event

a. **Initial Assumption:** The event provider has logged into UniVents using their credentials as a registered provider, and is on the home page.

b. **Normal:** The provider clicks on 'create event' in the dashboard.
   i. Provider fills in the form for event details including: title, date, time, location, and short description.
   ii. They upload an optional image and select a category for the event.
   iii. They click publish.
   iv. The system will confirm the event has been published ("event has been published") and display it in the events list.

c. **What Can Go Wrong:** The provider leaves data unanswered for event details or does not select genre.
   i. An error message will be shown to the provider.
   ii. The process cannot be continued until all event details are filled in.

d. **Other Activities:** At any point the provider is able to cancel the process of creating an event and is sent back to the dashboard page in step 1.

e. **System State on Completion:** The review is listed and other users would be able to see it.

5.2.2 Editing An Existing Event

a. **Initial Assumption:** The provider is logged into UniVents and has at least one existing event published with necessary permissions to edit.

b. **Normal:** The provider navigates to the My Events section.
   i. The provider selects the event they want to edit.
   ii. The provider modifies the event details (title, date, time, location, description, genre) and saves the changes.
   iii. The system validates each event detail has been filled and updates the event.
   iv. A message is shown "event successfully updated".

c. **What Can Go Wrong:** The provider leaves data unanswered for event details or does not select genre when updating.
   i. An error message will be shown to the provider.
   ii. The process cannot be continued until all event details are filled in.

b. **Other Activities:** If the provider is not logged in, clicking on the My Events page will redirect to the login page.

c. **System State on Completion:** The event details are updated within 5 seconds of publishing updates. All users who are interested receive a notification.

5.2.3 Deleting An Existing Event

d. **Initial Assumption:** The provider is logged into UniVents and has at least one existing event published with necessary permissions to edit.

e. **Normal:** The provider navigates to the My Events section.
   i. The provider selects the event they want to edit.
   ii. The provider clicks the delete button.

iii. The system throws a confirmation message: "Are you sure you want to delete this event".

iv. The system removes the event from the database.

v. A message is shown "event successfully deleted".

vi. All users interested in the event receive a notification.

f. **What Can Go Wrong:** The provider tries to delete an event that is already in progress or already completed

i. The system will disable the delete/edit button if the time the event has been set to has already passed.

g. **Other Activities:** If at any point the provider changes their mind a cancel button is available which will cancel the process and return them to the main page dashboard in step 1.

h. **System State on Completion:** The event is removed from the system, and students who are interested receive a notification about cancellation.

5.2.4 Viewing Event Engagement

i. **Initial Assumption:** The provider is logged into UniVents and has at least one existing event published.

j. **Normal:** The event provider clicks on the Analytics section in the dashboard.

i. The provider selects a specific event as to which they want to see analytics on engagement for.

ii. The system displays: number of interested students, number of RSVP's, number of comments, and views over time.

k. **What Can Go Wrong:** If the event has no data (or no engagement)

i. The data will all be zeros

l. **Other Activities:**

m. **System State on Completion:** The provider is able to view the engagement analytics of their events.

5.2.5 Responding To Comments and Questions

n. **Initial Assumption:** The provider has published an existing event and a user has commented on the event.

o. **Normal:** The event provider clicks on the My Events page in the dashboard.

i. Selects the specific event they wish to view.

ii. Provider scrolls to the comment section to view any comments or questions left by users.

iii. The provider can then hit the reply button to reply to any comments or questions left by users.

iv. The system then posts the response in the comment section (indented to indicate response to specific comment)

v. The system sends a notification to the user whose comment was replied to.

p. **What Can Go Wrong:**

i. The provider attempts to reply with nothing written

1. The system throws an error "cannot post empty reply".

2. The provider must type in something or cancel the reply process.

ii. The provider wants to edit their reply

1. Under the comment their is an edit option that allows the provider to edit their reply
2. The provider continues from step 4 in the main scenario.
   iii. The provider wants to delete their reply
   1. When the provider goes in to edit their reply they have the option to delete their reply.
q. **Other Activities:** At any point the provider can cancel their reply by hitting the cancel button.
r. **System State on Completion:** The provider's response is posted as a reply in the comment section within 5 seconds.

c. 5.3 SysAdmin - Robertson Siu

5.3.1 Manage User Access

a. **Initial Assumption:** The sys admin is logged in and on the user management page.
b. **Normal:** The sys admin manages customer and provider access, banning users if necessary based on reviews or behavior.
c. **What Can Go Wrong:** Mistakenly banning a legitimate user or failing to enforce rules properly.
d. **Other Activities:** The sys admin can reinstate banned users if needed.
e. **System State on Completion:** User access is properly managed.

5.3.2 Moderate Services

f. **Initial Assumption:** The sys admin is logged in and on the service management page.
g. **Normal:** The sys admin views and removes inappropriate service listings.
h. **What Can Go Wrong:** Accidentally removing legitimate services or failing to remove harmful ones.
i. **Other Activities:** The sys admin can update service details or flag listings for review.
j. **System State on Completion:** The service list is appropriately moderated.

5.3.3 Moderate Reviews

k. **Initial Assumption:** The sys admin is logged in and on the review moderation page.
l. **Normal:** The sys admin reviews and removes unacceptable reviews and replies.
m. **What Can Go Wrong:** Wrongfully deleting legitimate reviews or failing to remove harmful content.
n. **Other Activities:** The sys admin can edit reviews to comply with guidelines or notify users of policy violations.
o. **System State on Completion:** The review list is clean and adheres to guidelines.

5.3.4 View Usage Statistics

p. **Initial Assumption:** The sys admin is logged in and on the analytics page.
q. **Normal:** The sys admin views system usage data to analyze trends and engagement.
r. **What Can Go Wrong:** Data may not be updated correctly or may be misinterpreted.
s. **Other Activities:** The sys admin can generate reports or adjust filters for deeper insights.
t. **System State on Completion:** The sys admin has a clear understanding of system usage trends.

6. Project Overview

The goal of UniVents is to enhance campus life for college students by providing an easy-to-use interface that informs students about events happening around campus.

 Event Organizers/Providers create event cards detailing the event name, location, time, and description.

 Students/Customers are presented with these events via a Google Maps API where they can interactively search for locations with events happening on campus.

 Students can also leave reviews and feedback for events they attend. Admins are responsible for event moderation and managing user activity.

7. Use-Case Model
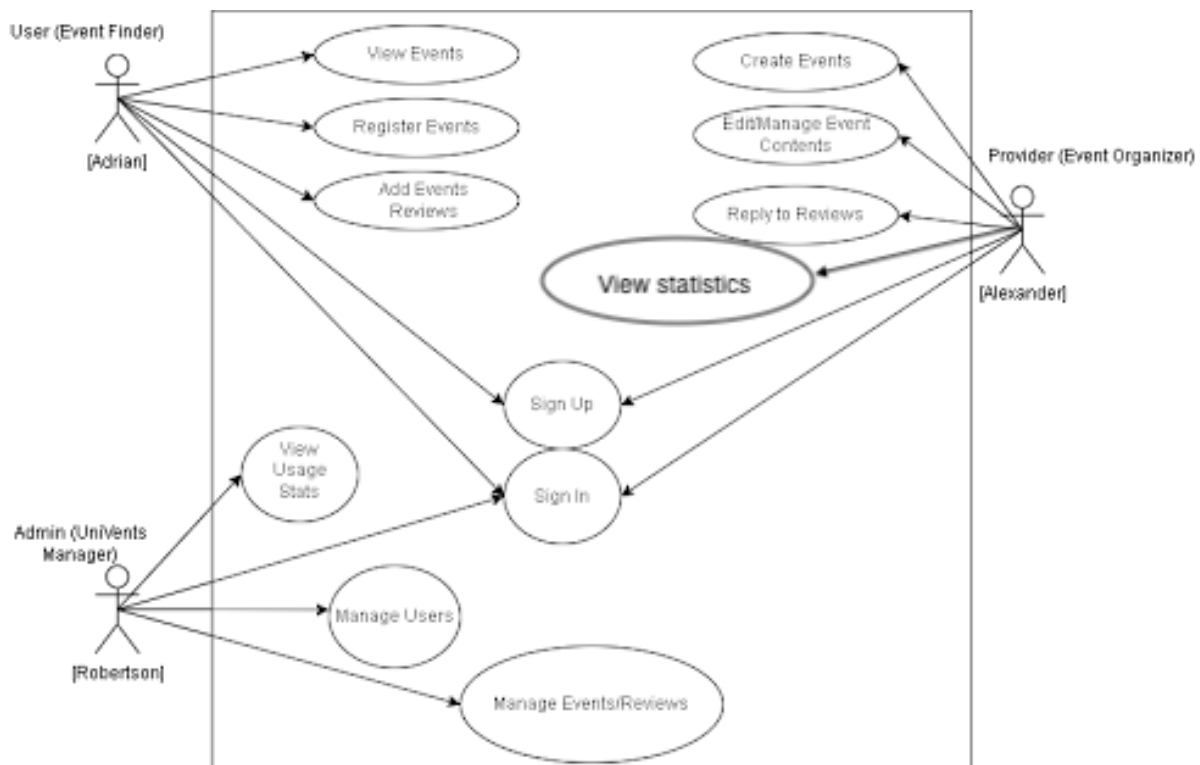
8. Database Schema

9. Scenarios With Screenshots

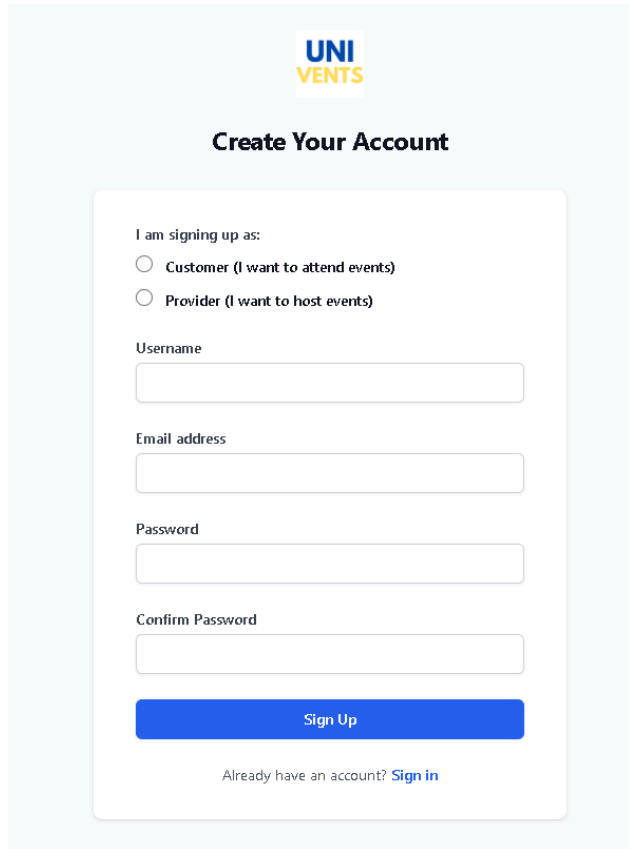**Customer:** Sign up for an account use case

Customer C1 opens the UniVents homepage and clicks the Sign Up button.
 C1 is directed to the registration form and enters required info (username, email, password).
 C1 clicks Submit to create the account.
 C1 receives confirmation and is redirected to the Login page.
 C1 exits.

Customer: Log into account use case:

Customer C1 opens the UniVents homepage and clicks the Log In button.
 C1 enters valid email and password in the login form.
 C1 clicks Submit and is redirected to the dashboard or home page.
 C1 now has access to authenticated features (e.g., View Events, Profile).
 C1 exits.

Login as Customer

Username

Password

Login

← Back to Role Selection

Customer: Update user profile information use case:

Customer C1 logs in and clicks on the Profile button in the navbar.

C1 sees their profile info including username and email

C1 clicks the Edit button and updates their information (email, password,username).

C1 enters current password to confirm changes and submits the form.

C1 is redirected to the profile page with updated information visible.

C1 exits.

Profile Information
Personal details.

Username	john123
Email address	john123@email.com
Password	**********
Role	CUSTOMER
Account Status	ACTIVE

Edit Profile   Delete Profile

Customer: View available events use case:

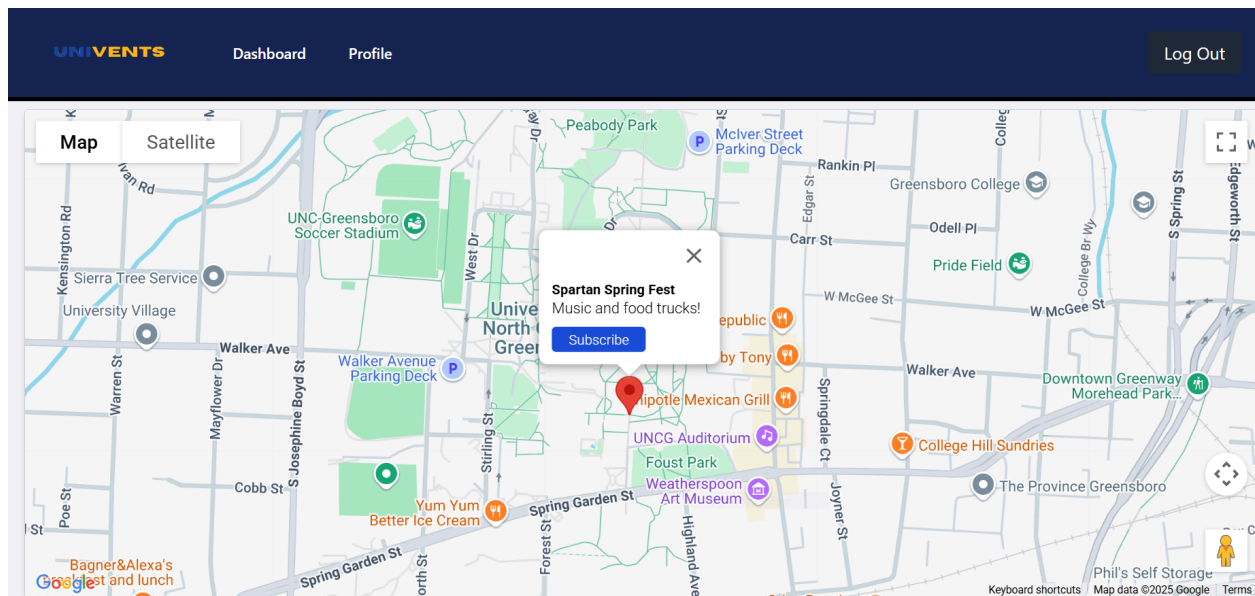Customer C1 logs in and clicks on the View Events tab.
C1 sees a campus map with markers representing events.
C1 clicks on a marker and an info window appears showing the event's title and description, along with a Subscribe button.
C1 may click additional markers to view other event info windows.
C1 can press the Subscribe button directly in the info window to register for an event.
C1 exits.

Customer: Write a review for attended event use case:
Customer C1 logs in and goes to the View Events page.
C1 clicks on an event they attended.
C1 presses the Write Review button.
C1 fills out the review form (rating, comments).
C1 submits the review.
C1 receives confirmation and exits.

9.1.1 Provider: Create new event use case:
Provider P1 logs in and clicks on the manage events tab. P1 sees all of the events they have created as well as a button to create new events.

1. P1 clicks on create new events button.
2. P1 completely fills the create new event form (title, date, time, location, description).
3. P1 clicks the submit button to post the event.
4. P1 is returned to their manage events page, where they see their new event.
5. P1 exits.

Create New Event

Be sure to input all fields.

Title

Date

07/05/2025

Time

--:-- --

Location

Enter an address or location

Description

[Create Event] [Cancel]

9.1.2 Provider: Edit event details and update use case:

Provider P1 logs in and clicks on the manage events tab. P1 sees all of the events they have created (with edit and delete buttons)

1. P1 clicks on the edit button for a specific event they want to edit
2. P1 can see a form (auto filled with specific event data) where they can update event details
3. P1 clicks the submit button to update the event details
4. P1 is returned to the manage events page, where their now updated event is visible again.
5. P1 exits.

poster sale UPDATED
Selling posters for values from 10-50 dollars of all genres.

[Edit Event] [Delete] Scheduled For Apr 01, 2025

a
a

[Edit Event] [Delete] Scheduled For May 06, 2025

Edit Event

Be sure to input all fields.

Title

poster sale UPDATED

Date

01/04/2025

Time

--:-- --

Location

euc commons

Description

Selling posters for values from 10-50 dollars of all genres.

Update Event   **Cancel**

9.1.3 Provider: View specific details/statistics of event use case:

Provider P1 logs in and clicks on the manage events tab. P1 sees all of the events they have created

6. P1 clicks on the specific event they want to see
7. P1 can see all the event details (including statistics and reviews)
8. P1 clicks the manage events tab to navigate back to all their events
9. P1 exits.

Event Information
Specific Event Details.

Event Title	poster sale UPDATED
Location	euc commons UPDATED
Event Date	Apr 1, 2025, 12:00:00 AM
Description	Selling posters for values from 10-50 dollars of all genres.

Event Data
Specific Event Data.

Clicks
Number of clicks by users

3

Reviews
Reviews

9.1.4 Provider: Delete event use case:

Provider P1 logs in and clicks on the manage events tab. P1 sees all of the events they have created (with edit and delete buttons)
1. P1 clicks on the delete button for the specific event they want to delete
2. The event is deleted and P1 cannot see the event anymore
3. P1 exits.

poster sale UPDATED			
Selling posters for values from 10-50 dollars of all genres.	Edit Event	Delete	Scheduled For Apr 01, 2025
a			
a	Edit Event	Delete	Scheduled For May 06, 2025

9.1.5 Provider: Update user profile information use case:
Provider P1 logs in and presses on the profile button on the navbar.
1. P1 can see all their profile information as well as a button to edit and delete
2. P1 presses the edit button and a form pops up with prefilled (user data) sections where they are able to edit their information
3. P1 presses submit and are returned to their profile information page where their updated information is displayed
4. P1 exits.

Profile Information
Personal details.

Username	user1
Email address	email@gmail.com
Password	**********
Role	customer
Account Status	Valid

Edit Profile   Delete Profile

Edit Profile

Username

user1

Email Address

email@gmail.com

Password

········

Role

customer

Account Status

Valid

Cancel   Save Changes

Admin: Manage Users

1. Admin logins and land on admin dashboards withs the options of "Manage Users", "Manage Events", and "Statistics"
2. Admin clicks on "Manage Users" and receive a list of all users registered in the app
3. Admin clicks on a user who is being inappropriate and and ban them

Welcome, Admin
Admin Dashboard

👥 Manage Users   📅 Manage Events   🗓 Statistics
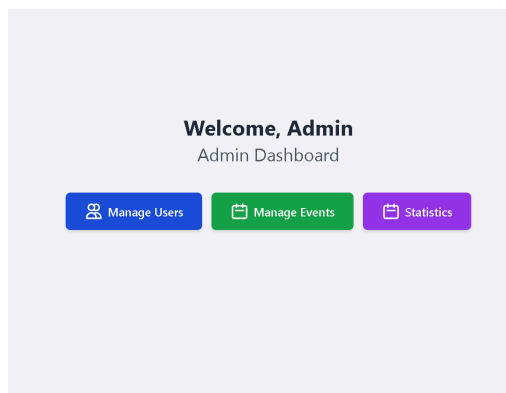
All Users

Search By Username 🔍

ID	STATUS	ROLE	USERNAME	PASSWORD	EMAIL	ACTIONS	
1	ACTIVE	ADMIN	rob	admin123	robsiu@admin.com	Edit	Ban
2	ACTIVE	ADMIN	adrian	admin123	adrian@admin.com	Edit	Ban
3	ACTIVE	ADMIN	alex	admin123	alex@admin.com	Edit	Ban
4	ACTIVE	CUSTOMER	billyjeans34	mikejack123	billyjeans34@hotmail.com	Edit	Ban
5	ACTIVE	PROVIDER	herobrine1	ihatesteve123	herobine@outlook.com	Edit	Ban
6	ACTIVE	CUSTOMER	bubba	test123	bubba@yahoo.com	Edit	Ban
8	ACTIVE	CUSTOMER	cool123	cool123	cool123@gmail.com	Edit	Ban
9	ACTIVE	PROVIDER	a	abc	abc@gmail.com	Edit	Ban

User #: 5

herobrine1

ID: 5

Status: ACTIVE

Role: PROVIDER

Username: herobrine1

Password: ihatesteve123

Email: herobine@outlook.com

Ban User

Admin: Manage Users pt. 2

1. Admin click on user who has contact admin for a user change they can not do themselves
2. Admin edit as the user wish

john1	
ID: 13	Edit User
Status: ACTIVE	
Role: CUSTOMER	
Username: john1	
Password: password	
Email: john@email.com	

Update User

ID
13

Status
ACTIVE

Role
CUSTOMER

Username
john123

Password
password123

Email
john123@email.com

Save Changes   Cancel

Admin: Manage Events

1. From the "Manage User" screen, admin can click on "Manage Events" from there.
2. Admin can see list of all available events registered on the site

All Events

ID	CREATOR	EVENT NAME
1	User{role=PROVIDER, userId=5, username='herobrine1', email='herobine@outlook.com', password='ihatesteve123', accountStatus='ACTIVE', lastUpdatedAt=2025-05-06 12:24:13.539}	PRESENTATI(
6	User{role=PROVIDER, userId=9, username='a', email='abc@gmail.com', password='abc', accountStatus='ACTIVE', lastUpdatedAt=2025-05-06 16:34:05.592}	a
7	User{role=PROVIDER, userId=9, username='a', email='abc@gmail.com', password='abc', accountStatus='ACTIVE', lastUpdatedAt=2025-05-06 16:34:05.592}	e
8	User{role=PROVIDER, userId=9, username='a', email='abc@gmail.com', password='abc', accountStatus='ACTIVE', lastUpdatedAt=2025-05-06 16:34:05.592}	TEST

Admin: Manage Events pt. 2

1. Admin can click on an event that they deem inappropriate
2. Admin can then ban them or contact the organizer that the event is not good

Event Details

TEST

ID: 8

Creator: User{role=PROVIDER, userId=9, username='a', email='abc@gmail.com', password='abc', accountStatus='ACTIVE', lastUpdatedAt=2025-05-06 16:34:05.592}

Location: Petty Science Building, College Avenue, Greensboro, NC, USA

Date: 2025-05-08 00:00

Description: dldsflaj

Ban Event