Software Requirements Specification Document

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Version 01

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UniVents: Event Finder on Campus

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.

Personalized Experience: Users can create personalized profiles to tailor event recommendations based on their interests, major, and extracurricular activities. Events can be searched for based on genres that match students' preferences and interests.

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 Promotion and Sharing: The platform enables event organizers to publish and promote their events to a targeted audience of students. Social sharing features allow users to recommend events to friends and create discussions around upcoming activities.

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

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.

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.

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

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.

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.

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. Customers - Adrian Sam

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.

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.

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.

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. Actor: Provider - Alex Crubaugh

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.

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: T**he event details are updated within 5 seconds of publishing updates. All users who are interested receive a notification.

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

4. **Viewing Event Engagement**
    a. **Initial Assumption:** The provider is logged into UniVents and has at least one existing event published.
    b. **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.
    c. **What Can Go Wrong:** If the event has no data (or no engagement)
        i. The data will all be zeros
    d. **Other Activities:**
    e. **System State on Completion:** The provider is able to view the engagement analytics of their events.

5. **Responding To Comments and Questions**
    a. **Initial Assumption:** The provider has published an existing event and a user has commented on the event.
    b. **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.
    c. **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.

d. **Other Activities:** At any point the provider can cancel their reply by hitting the cancel button.

e. **System State on Completion:** The provider's response is posted as a reply in the comment section within 5 seconds.

c. Actor: SysAdmin - Robertson Siu

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.
2. **Moderate Services**
    a. **Initial Assumption:** The sys admin is logged in and on the service management page.
    b. **Normal:** The sys admin views and removes inappropriate service listings.
    c. **What Can Go Wrong:** Accidentally removing legitimate services or failing to remove harmful ones.
    d. **Other Activities:** The sys admin can update service details or flag listings for review.
    e. **System State on Completion:** The service list is appropriately moderated.
3. **Moderate Reviews**
    a. **Initial Assumption:** The sys admin is logged in and on the review moderation page.
    b. **Normal:** The sys admin reviews and removes unacceptable reviews and replies.
    c. **What Can Go Wrong:** Wrongfully deleting legitimate reviews or failing to remove harmful content.
    d. **Other Activities:** The sys admin can edit reviews to comply with guidelines or notify users of policy violations.
    e. **System State on Completion:** The review list is clean and adheres to guidelines.
4. **View Usage Statistics**
    a. **Initial Assumption:** The sys admin is logged in and on the analytics page.
    b. **Normal:** The sys admin views system usage data to analyze trends and engagement.
    c. **What Can Go Wrong:** Data may not be updated correctly or may be misinterpreted.
    d. **Other Activities:** The sys admin can generate reports or adjust filters for deeper insights.
    e. **System State on Completion:** The sys admin has a clear understanding of system usage trends.