Traceability Matrix for the Veteran e-Post Hub

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| --- | --- | --- | --- | --- |
| **Functional**  **Requirement** | **User Story**  **ID** | **Use Case ID** | **Description** | **Test Case**  **ID** |
| Registration | US01, US02 | UC07, UC23 | Allows the user to create an admin or member account |  |
| Login | US03 | UC17 | Allows members and admins to log in |  |
| Profile Modification | US04 | UC04 | Allows members and admins to modify their profile data |  |
| User Event Submission | US05 | UC02 | Allows members and admins to submit events |  |
| User Commenting | US06 | UC21 | Allows members and admins to comment on events |  |
| Event Approval/Rejection | US07 | UC03 | Allows admin to approve events |  |
| Event Modification | US08 | UC05 | Allows admin to modify events |  |
| Filter Events | US09 | UC08 | Allows users to filter events |  |
| Delete Events | US10 | UC06 | Allows admin to delete events |  |
| User Authentication | US11, US12 | UC34, UC30 | Allows system to authenticate users and admin accounts |  |

**User Stories**

**User Story ID: US01 Member Account Creation**

**As a user, I need to be able to create an member account so that I can utilize member-only capabilities, such as posting events and interacting with the community**

Scenario: Successful member account creation

Given I am a user with an email not used on the hub

And I click the "Create Member" button

When I enter my name, email address, phone number (optional), password, and matching password

And I submit the form

Then the account is created successfully

And I am redirected to the homepage

Scenario: Unsuccessful member account creation

Given I am a user with an email not used on the hub

And I click the "Create Member" button

When I enter an incorrectly formatted email address

And I submit the form

Then I am shown a message saying the account has not been created due to invalid email format

And the page reloads with my previous inputs

**User Story ID: US02 Admin Account Creation**

**As a User, I need to be able to create admin accounts so that new admins can easily be added for moderating the hub**

Scenario: Successful admin account creation

Given I am a user that wants to create an admin account

When I click the "Create admin account" button

And I verify the creators code

And I am redirected to the Create Admin account page

When I input my name, email, password, matching password, office location, office phone number, and office hours

And I press the "submit account" button

Then I am redirected to the profile overview page

And I am shown a message that the account has been created successfully

Scenario: Unsuccessful admin account creation due to incorrect creator code

Given I am a user that wants to create an admin account

And I click the "create admin account" button

And I am asked for the account creator code

When I type an incorrect creator code

Then I will see a message indicating that the code is incorrect

And I will remain on the creator code entry page

**User Story ID: US03 Login**

**As a member/admin, I need to be able to log in so that I can use user-specific actions**

Scenario: Successful log in

Given I am a user with login capabilities

And I click the "sign in" button

And I am redirected to the log in page

When I enter my correct sign in credentials

And I press the "sign in" button

Then I am redirected to the home page

And the "sign in" button is replaced with my name

Scenario: Unsuccessful sign in

Given I am a user with login capabilities

And I click the "sign in" button

And I am redirected to the log in page

When I enter my sign in credentials incorrectly

Then I am shown a message saying my login credentials are not valid

And I remain on the log in page

User Story ID: US04 Modify Profile

**As a admin/member, I need to be able to edit my profile including my first and last name, email address, phone number, office hours, and office location so that my profile will remain up to date.**

Scenario: Successful profile update

Given I am a logged-in user

And I click the "edit profile" button

And I am redirected to the Edit Profile page

And I see my current applicable profile information (name, email address, phone number, office location, office hours)

When I enter my new email address, new name, new work phone number, or new office location

And I press the "save changes" button

Then I am redirected to the profile overview page

And I received a message saying "Profile updated successfully"

Scenario: Unsuccessful profile update

Given I am a logged-in user

And I click the "edit profile" button

And I am redirected to the Edit Profile page

When I enter an invalid email address

And I press the "save changes" button

Then I should see an error message indicating the email is invalid

And I remain on the edit profile page

**User Story ID: US05 Modify Events**

**As a admin, I need to be able to modify events so that I can correct upcoming events**

Scenario: Successful event modification

Given I am a logged-in admin

And I click the "edit event" button

And I am redirected to the Edit Event page

When I change the flyer, name, date, or contact information

And I click the "save changes" button

Then I will be redirected to the event's page

And I will see a message saying the changes have been saved

Scenario: Unsuccessful event modification due to unsupported file format

Given I am a logged-in admin

And I click the "edit event" button

And I am redirected to the Edit Event page

When I change the flyer to an unsupported format

And I click the "save changes" button

Then the page will be reloaded

And I will see a message saying that the changes have failed to save due to the wrong flyer format

**User Story ID: US06 Comment on Post**

**As an admin/member I need to be able to comment on post so that I can engage with the content and share my insights or feedback Details and Assumptions**

Scenario: Successful comment submission

Given I am a logged-in user

And I enter an event's page

When I type my comment in the comment box

And I submit the comment

Then the comment will be saved to the database

And it will be displayed under the event's post

Scenario: Successful reply submission

Given I am a logged-in user

And I see a comment on the event's page

When I click the "Reply" button under the comment

And I type my reply in the reply box

And I submit the reply

Then the reply will be saved to the database

And it will be displayed as a nested comment under the original comment

User Story ID: US07 Event Approval/Rejection

**As a User I need to be able to create admin accounts so that new admins can easily be added for moderating the hub**

Scenario: Successful admin account creation

Given I am a user that wants to create an admin account

When I click the "Create admin account" button

And I verify the creators code

And I am redirected to the Create Admin account page

When I input my name, email, password, matching password, office location, office phone number, and office hours

And I press the "submit account" button

Then I am redirected to the profile overview page

And I am shown a message that the account has been created successfully

Scenario: Unsuccessful admin account creation due to incorrect creator code

Given I am a user that wants to create an admin account

And I click the "create admin account" button

And I am asked for the account creator code

When I type an incorrect creator code

Then I will see a message indicating that the code is incorrect

And I will remain on the creator code entry page

Scenario: Unsuccessful admin account creation due to non-matching passwords

Given I am a user that wants to create an admin account

And I click the "create admin account" button

And I verify the creators code

And I am redirected to the Create Admin account page

When I input all relevant information but my passwords do not match

And I press the "submit account" button

Then I will see a message indicating that the passwords do not match

And I will remain on the Create Admin account page

**User Story ID: US08 Event Modification**

**As a admin I need to be able to modify events so that I can correct upcoming events**

Scenario: Successful event modification

Given I am a logged-in admin

And I click the "edit event" button

And I am redirected to the Edit Event page

When I change the flyer, name, date, or contact information

And I click the "save changes" button

Then I will be redirected to the event's page

And I will see a message saying the changes have been saved

Scenario: Unsuccessful event modification due to unsupported file format

Given I am a logged-in admin

And I click the "edit event" button

And I am redirected to the Edit Event page

When I change the flyer to an unsupported format

And I click the "save changes" button

Then the page will be reloaded

And I will see a message saying that the changes have failed to save due to the wrong flyer format

**User Story ID: US09 Filter Events**

**As a user I need to be able to filter my searches so that I can find events that fit my needs**

Scenario: Successful search by type

Given I am a user

And I want to search for a specific type of event

When I click the "type of event" dropdown menu on my homepage

And I select all types relevant to me

And I click the "search" button

Then I am redirected to a page showing all events that match my filters

Scenario: Unsuccessful search by type

Given I am a user

And I want to search for a specific type of event

And I click the "type of event" dropdown menu on my homepage

When I select all types relevant to me

And I click the "search" button

Then I am redirected to a page showing all events that match my filters

But no events match my criteria

And I am shown a message saying no events match my criteria

**User Story ID: US10 Delete Post**

**As a admin I need to be able to delete past posts or posts no longer wanted so that the hub is as updated as possible**

Scenario: Successful event deletion

Given I am a logged-in admin

When I click the "delete event" button

And I see a confirmation dialog

And I confirm the deletion

Then I will be redirected to the events list page

And I will see a message saying the event has been deleted successfully

Scenario: Unsuccessful event deletion

Given I am a logged-in admin

When I click the "delete event" button

And I see a confirmation dialog

And I cancel the deletion

Then I will remain on the event's page

And I will see a message saying the deletion has been canceled

Scenario: Successful event deletion for user

Given I am a logged-in member

When I click the "delete event" button on an event I posted

And I see a confirmation dialog

And I confirm the deletion

Then I will be redirected to the events list page

And I will see a message saying the event has been deleted successfully

**User Story ID: US11 Authenticate Member**

**As a member/admin I want to only authorized users to access certain pages so that my website has better security**

Scenario: User is a member/admin

Given I am a logged in member

When I try to access a page that is for members only

Then the system will check for my account type

And I will be granted access

Scenario: User is not a member

Given I am not logged in

When I try to access a member only page

Then the system will check for my account type

And I will not be granted access

**User Story ID: US12 Authenticate Admin**

**As a admin I want to only authorized users to access certain pages so that my website has better security**

Scenario: User is a admin

Given I am a logged in admin

When I try to access a page that is for admin only

Then the system will check for my account type

And I will be granted access

Scenario: User is not a admin

Given I am not logged in or I am a member

When I try to access a admin only page

Then the system will check for my account type

And I will not be granted access

**Use cases**

1. **Member Account Creation** UC23

* **Actors:** System, User
* **Preconditions:** The user’s account does not exist
* **Main Flow:**

1. Locate the “create member account” button
2. The user selects the “create member account” button
3. User is redirected to the create member page
4. User enters name, email, password, confirm password, and phone number(optional)
5. User submits information for account
6. User is redirected to the homepage, logged in to the new account, and is given a message for successful account creation

* **Alternative Flow:**
  + In step 4, if the user’s email is not valid, the page is reloaded and a message saying “invalid email format” is shown
  + In step 4, if the user’s password and confirm password does not match, the page is reloaded and a message saying “passwords do not match” is shown
  + In step 4, if the user does not enter required information, the page is reloaded and a message saying what is missing is shown.
* **Postconditions:** The user’s account exists

1. **Admin Account Creation** UC07

* **Actors:** System, User
* **Preconditions:** The user’s account is not created
* **Main Flow:**

1. Locate the “create admin account” button
2. The user selects the “create admin account” button
3. User is redirected to the create admin page
4. User enters name, email, password, confirm password, and phone number(optional), work hours(optional), work address(optional), work phone number(optional), and current creator’s code
5. User submits information for account creation
6. User is redirected to the homepage, logged in to the new account, and is given a message for successful account creation

* **Alternative Flow:**
  + In step 4, if the user’s email is not valid, the page is reloaded and a message saying “invalid email format” is shown
  + In step 4, if the user’s password and confirm password does not match, the page is reloaded and a message saying “passwords do not match” is shown
  + In step 4, if the user does not enter required information, the page is reloaded and a message saying what is missing is shown.
  + In step 4, if the user does not enter the correct creator’s code, the page is reloaded and a message saying “incorrect creator’s code” is shown
* **Postconditions:** The user’s account exist

1. **User Login** UC17

* **Actors:** Member, Admin , System
* **Preconditions:** User is not currently logged in
* **Main Flow:**

1. Locate “Login” button
2. The user selects the “Login” button
3. User is redirected to the login page
4. User enters their correct credentials and presses the “Login” button
5. User is redirected to the homepage and has been successfully logged in

* **Alternative Flow:**
  + In step 4, if the user enters the wrong credentials, the page reloads, and a message "Invalid login credentials" is displayed.
* **Postconditions:** The system must provide a mechanism for users to create client and admin accounts.

1. **Edit Profile** UC04

* **Actors:** System, Member, Admin
* **Preconditions:**
  + Profile is not up to date
  + User is logged in
* **Main Flow:**

1. User navigates to the "Edit Profile" page.
2. User updates their name, email, password, or phone number.
3. User clicks the "Save" button to apply the changes.
4. The page reloads, and a confirmation message appears indicating that the changes have been saved.

* **Alternative Flow:**
  + In step 2, if the user is an admin, additional fields such as work hours, work address, and work phone number are available for updating

**Postconditions:** Profile is updated with the new information

1. **Create Event** UC02

* **Actors:** Admin, Member, System
* **Preconditions:**
  + Event Post does not exist
  + User is logged in
* **Main Flow:**

1. Locate the “Create Post” button
2. The user selects the “Create Post” button
3. User is redirected to the create post page
4. User enters event name, date, description(optional), website link(optional) contact information, and flyer of pdf or image format.
5. User submits event
6. The system confirms that the event has been created and displays a success message

* **Alternative Flow:**
  + In step 1, if the user is not logged in then the create post button will not be visible

**Postconditions:** A new event post is created and exists in the system

1. **Comment on Post** UC21

* **Actors:** Admin, Member , System
* **Preconditions:** The user is logged in
* **Main Flow:**

1. Locate the event name
2. The user selects the event name
3. The user will be directed to the post’s page
4. Locate the comment box
5. User enters comment and submits it
6. Comment will be added to the event for all users to see

* **Alternative Flow:**
  + In step 4, if the user is not logged in then the comment box is not visible

**Postconditions:** A comment will be added to an event post

1. **Admin Approve/ Reject** UC03

* **Actors:** System, Admin
* **Preconditions:**
  + The user is logged in as an admin.
  + There are events awaiting approval or rejection
* **Main Flow:**

1. The user navigates to the page displaying all events awaiting approval or rejection.
2. The user reviews the listed events.
3. The user selects the "Approve" or "Reject" button for each event as needed.
   1. If the event is rejected, the admin is prompted to enter a reason for the rejection.
4. The admin clicks the "Save" button to confirm the decisions.
5. The system updates the status of the events accordingly.
6. For approved events, the system automatically sends a confirmation email to the event organizer.
7. For rejected events, the system sends an email to the event organizer with the rejection reason.

* **Alternative Flow:**
  + In step 3, it is possible to no check Approve or Reject so that a decision can be made later.

**Postconditions:** Events are either approved or rejected based on the admin’s selection, and relevant notifications are sent to event organizers.

1. **Modify Events** UC05

* **Actors:** System, Admin, Member
* **Preconditions:**
  + Event information is not up to date
  + User is logged in as an admin or the user is modifying their own event post
* **Main Flow:**

1. User navigates to the event page.
2. User clicks the “Edit Event” button, which redirects to the edit event page.
3. User enters the new name, date, description, website link, contact information, or uploads a new flyer.
4. User submits the updates.
5. The page reloads, displaying a message confirming that the changes have been saved.

* **Alternative Flow:** 
  + If the user cancels the update at any point, no changes are made, and the

**Postconditions:** Event is updated with new information

1. **Filter Events** UC08

* **Actors:** System, User
* **Preconditions:** User has access to the event data (no login required)
* **Main Flow:**

1. User locates the filter menu.
2. User selects the filters that apply to their search criteria.
3. User presses the "Search" button.
4. Only events matching the selected criteria are displayed

* **Alternative Flow:** N/A

**Postconditions:** Events displayed are filtered based on user selection

1. **Delete Events** UC06

* **Actors:** System, Admin, Member
* **Preconditions:**
  + The event exists in the system
  + The user is logged in as an admin or the user is deleting their own event
* **Main Flow:**

1. The user navigates to the event page
2. User clicks the “Delete Event” button
3. User confirms deletion
4. The event is removed from the system and no longer exists

* **Alternative Flow:** In step 3, if the user does not confirm deletion, it will be cancelled
* **Postconditions:** The event is successfully deleted

1. **Member Verification** UC34

* **Actors:** System, Member
* **Preconditions:** Member must be logged in
* **Main Flow:**

1. The user tries to access a member only location
2. The system checks if the account is a member or admin account
3. If yes, the process proceeds
4. If no, the process does not happen, and the user is sent a message about unauthorized access

* **Alternative Flow:** N/A

**Postconditions:** The user accessed the page or not depending on their user type

1. **Admin Verification** UC30

* **Actors:** System, Admin
* **Preconditions:** Admin must be logged in
* **Main Flow:**

1. The user tries to access a admin only location
2. The system checks if the account is a admin account
3. If yes, the process proceeds
4. If no, the process does not happen, and the user is sent a message about unauthorized access

* **Alternative Flow:** N/A

**Postconditions:** The user accessed the page or not depending on their user type