CSC 4350 - Test Cases Document
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Test Case #1: Event Creation

Input:
1. A string containing details of the event that is being created.
2. An optional image file that may be included as a visual for the event that is being created.

Tests:
1. Test for inputs where the event details are being shown correctly.
2. Test for inputs where there are no event details included.
3. Test for inputs where the string containing the event details exceeds the maximum character limit provided.
4. Test for inputs where the image file loads properly and at a clear resolution when one is included.
5. Test for inputs where the image file loads properly but at a blurry resolution when one is included.
6. Test for inputs where the image file does not load when one is included.
7. Test for inputs where the event details are formatted properly when an image file is included.

Output:
1. The correct event details that are provided in a proper format and a clear resolution version of the image file (if included) when a user views the event's page.
2. An error message indicating that the string for the event details was left empty.
3. An error message indicating that the string for the event details exceeds the maximum character limit.
4. An error message indicating that the image file could not be retrieved.

Test Case #2: Event Registration

Input:
1. A button that may be interacted with to register for an event.
2. A list or an array that stores the names of the users registering for an event.

Tests:
1. Test for inputs where a user's registration for an event is successfully processed after the user interacts with the button.
2. Test for inputs where a user's registration for an event does not get successfully processed after the user interacts with the button.
3. Test for inputs where a user's name is properly displayed when their registration for an event is successfully processed.

Output:
1. A message indicating that the user's registration was successfully processed and the user's name being recorded in the event's guest list.
2. An error message indicating that the registration could not be successfully processed.

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Test Case #3: Account Balance

Input:
1. A number representing the amount of money a user currently has in their account balance.
2. A number representing the amount of money a user must pay to register for an event.

Tests:
1. Test for inputs where the user's current account balance meets the cost of the registration for an event.
2. Test for inputs where the user's current account balance does not meet the cost of the registration for an event.
3. Test for inputs where the user's payment could not be processed.

Output:
1. A message indicating that the user's payment was successfully processed.
2. An error message indicating that the user's current account balance does not meet the cost of the registration for an event.
3. An error message indicating that the user's payment could not be processed.

Test Case #4: Email Notifications

Input:
1. A boolean variable that checks if a user has agreed to receive notifications for an event.
2. A list or array that stores the email addresses of all of the users who have agreed to receive notifications for an event.
3. A string that contains the name of a user that has registered for an event.
4. A string that contains the name of a user that has made changes to the details of an event.
5. A string that contains the details of changes made to an event.

Tests:
1. Test for inputs where the user is sent a confirmation email when they agree to receive notifications for an event.
2. Test for inputs where the user's request to receive notifications for an event could not be processed.
3. Test for inputs where the user successfully receives notifications in their email for an event they agreed to receive notifications for.
4. Test for inputs where the user stops receiving notifications in their email for an event when they choose to opt out of receiving notifications.
5. Test for inputs where the user's request to opt out of notifications for an event could not be processed.
6. Test for inputs where the details of updates for an event are properly displayed in the emails sent to users agreeing to receive notifications, such as:
    a. The user's name is displayed properly when they register for an event.

  b. The user's name is displayed properly when they make changes to the details of an event.

  c. The details of changes that are made to an event are displayed properly.

Output:
1. A confirmation email is sent to the user if they agree to receive notifications for an event.
2. An error message is displayed if the user's request to receive notifications for an event could not be processed.
3. An email detailing an update to an event is sent to users who agreed to receive notifications for an event each time an update is made.
4. A message indicating that the user's request to opt out of receiving notifications for an event has been successfully processed.
5. An error message indicating that the user's request to opt out of receiving notifications for an event could not be processed.

Test Case #5: Search and Filter Events

Input:
1. A search query entered by the user to find specific events.
2. Filter criteria such as date, location, category, etc., applied by the user to refine search results.
3. A list or array of events containing details like event name, date, location, category, etc.

Tests:
1. Test for inputs where the search query matches with one or more events in the list, and the filtered results are displayed correctly.
2. Test for inputs where the search query does not match with any event in the list, and a message indicating no results are found is displayed.
3. Test for inputs where filter criteria are applied, and the search results are filtered accordingly, displaying only events that meet the specified criteria.
4. Test for inputs where no filter criteria are applied, and all events are displayed without any filtering.
5. Test for inputs where the list of events is empty, and a message indicating no events are available is displayed.
6. Test for inputs where the user applies multiple filter criteria, and the search results are filtered accurately based on all criteria.

Output:
1. A list of events matching the search query and filter criteria, displayed to the user.
2. A message indicating no results found if the search query does not match any event.
3. Filtered results displaying only events that meet the specified criteria.
4. Displaying all events when no filter criteria are applied.
5. A message indicating no events are available if the list is empty.
6. Accurate filtering of search results based on multiple criteria applied by the user.

Test Case #6: Secure Login

Input:
1. A string array containing the user's username/email attached to a special assigned key (created during account sign up, and the user's password

Tests:
1. Test for checking the Event Finder database for an existing account matching the inputted username/email
2. Test for string matching the username/email found in Event Finder database
3. Test for string matching the password found in the Event Finder database
4. Test for Event Finder database not returning a username/email match to string
5. Test for Event Finder database not returning a password match to username/email

Output:
1. Viewer display processed and sent to homepage with account permissions visible and accessible
2. Display failed login message notifying user that email/username or password has not matched the records saved in the Event Finder database
3. Display unmade account message notifying user that no account in the Event Finder database was found associated with the given username/email

Test Case #7: Update Event

Input:
1. A interface where event details can be modified
2. A list including details like name, date, location, category, and description

Tests:
1. Test for update functionality, user modifies one or more details of event
2. Test for update description, user edits description for event
3. Test for image change, user edits image for their event
4. Test for mandatory fields, user tried to update event without filling in mandatory fields
5. Test for date and time validity, user tried to update the event date and time to an invalid value
6. Test for under/redo functionality, user makes changes to event details and then undo/redo them.
7. Test for concurrency handling, multiple users simultaneously attempt to update the same details

Output:
1. Update of event details with proper validation and error handling
2. Display of updated event information on the event page.
3. Clear error messages for validation failures.
4. Proper handling of image uploads and validation of date and time fields.
5. Correct behavior of undo/redo functionality and concurrency handling.

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Test Case #8: Event Ratings

Input:
1. A rating provided by a user for a specific event, ranging from 1 to 5 stars.
2. A comment entered by a user to share their feedback or experience about the event.
3. A list or array of events, each with its unique identifier.

Tests:
1. Test for inputs where a user successfully submits a rating and comment for an event.
2. Test for inputs where a user submits a rating without a comment for an event.
3. Test for inputs where a user submits a comment without a rating for an event.
4. Test for inputs where multiple users submit ratings and comments for the same event.
5. Test for inputs where a user updates their existing rating and comments for an event.
6. Test for inputs where a user deletes their previously submitted rating and comment for an event.

Output:
1. Confirmation message indicating successful submission of the rating and comment for the event.
2. A message indicating that the rating was submitted successfully, even if no comment was provided.
3. A message indicating that the comment was submitted successfully, even if no rating was provided.
4. All ratings and comments displayed for the event, including those submitted by multiple users.
5. Confirmation message indicating successful update of the rating and comment for the event.
6. Confirmation message indicating successful deletion of the rating and comment for the event.