Team Grumio

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Grumio’s List: Recipe-Sharing Web Application (Lifestyle/Social Media)

# Use Case-Based Testing:

**Use Case 1:** Create Profile

**Description:** User creates an account on the application

**Related Use Cases:** Extends to UC2, Extends to UC3

**System under development:** Grumio’s List

**Actors:** user. System

**Goals:** User is able to create an account when supplying valid input.

**Main Scenario:**

1. User clicks the “Sign Up” button on the homepage.
2. System prompts the user to input a valid username and password.
3. User inputs requested information.
4. System validates username to verify availability.
5. System validates password to match security requirements (length, characters).
6. System notifies the user that their choices are valid.
7. User clicks the “create account” button to finalize account creation.
8. System creates an account entry in the associated database.

**Alternatives:**

4a. Username is not available.

4a1. System displays a message stating that the username is already taken, and does not allow the user to proceed.

5a. Password does not meet security requirements.

5a1. System displays a message indicating what is wrong with the password, and does not allow the user to proceed.

8a. The account is unable to be created.

8a1. The system displays a network error message to the user.

**Test situations:**

1. A valid username and password are used. The user is able to create an account.
2. The user uses a username that is already taken.
3. The user uses a password that does not meet length or character requirements.
4. The system is disconnected from the internet.

**Test coverage:**

Number of main and alternate scenarios: 4

All 4 situations are tested for.

100% coverage

**Use Case 4:** Create Recipe

**Description:** User creates a recipe.

**System under development:** Grumio’s List

**Actors:** user, system

**Goals:** user is able to create a recipe.

**Main Scenario:**

1. User clicks the “Create Recipe” button.
2. System brings up the recipe creation page.
3. User supplies recipe title.
4. User supplies ingredients list.
5. User supplies instructions for recipe preparation and cooking.
6. User supplies pictures of the recipe.
7. User clicks the “Post Recipe” button.
8. System validates that required fields have been filled (title, ingredients, steps).
9. System adds an entry for the recipe to the recipe database.
10. System notifies the user that their recipe has been uploaded successfully.

**Alternate Scenarios:**

6a. The image is unable to be uploaded.

6a1. The system displays a network error message.

8a. Not all required fields have been filled.

8a1. The system displays a message telling the user to fill in the empty fields.

9a. The system is unable to add the recipe to the database.

9a1. The system displays a network error message.

**Test Situations:**

1. The user successfully creates and submits their recipe.
2. The system loses internet connection.
3. The user fails to fill in all required fields.

**Test coverage:**

Number of main and alternate scenarios: 3

All 3 situations are tested for.

100% coverage

**Use Case 6:** Comment on Recipe

**Description:** The user comments on another user’s recipe

**Related Use Case(s):** UC8

**System under development:** Grumio’s List

**Actors:** user, system

**Goals:** User is able to leave comments on a recipe

**Main Scenario:**

1. User decides to create a comment
2. System provides comment page
3. User creates parts of the comment
4. System validates text in the comment
5. System tests for words/phrases that violate the TOS
6. Comment passes verification
7. System uploads comment to recipe page

**Alternatives:**

2a. System fails to create the comment page

2a1. Comment fails to be created

4a. System can’t validate the text

4a1. Comment fails to be created

5a. Comment does not pass TOS verification

5a1. Comment is not created and a notification is sent to the user

7a. System can’t upload the comment to the recipe

7a1. Comment fails to be displayed in the GUI

**Test Situations:**

1. The user successfully makes a comment
2. The system fails to create comment parts
3. The user submits a comment that violates TOS
4. The system does not upload the comment to the recipe

**Test Coverage:**

Number of main and alternate scenarios: 4

All 4 situations will be tested

100% coverage

**Use Case 9:** Block User

**Description:** User wishes to block another user

**Related Use Cases:** UC5

**System Under Development:** Grumio’s List

**Actors:** generalized user (userA, userB), system

**Goals:** UserA is able to block userB

**Main Scenario:**

1. UserA decides they want to block userB
2. System provides a question on why userA wants to block userB
3. UserA provides reason(s)
4. System provides a confirmation window
5. UserA confirms
6. System sets UserA’s connection to UserB as blocked
7. System disallows communication between the two users

**Alternative Scenarios:**

3a. UserA does not provide reasons

3a1. UserB is not blocked from userA

4a. System fails to provide a confirmation window

4a1. Blocking does not happen

5a. UserA decides to not block; deny confirmation window

5a1. UserB is not blocked

6a. System fails to set a blocked status between the users

6a1. UserB is not blocked

7a. System still allows communication between the users

7a1. UserA does not get the desired outcome of discontinuing communication with userB

**Test Situations:**

1. UserA successfully blocks userB
2. UserA decides to not block userB at confirmation window
3. UserA does not provide reasoning for blocking
4. System faults and does not go through with blocking
5. System does not end communication and userB is still able to contact userA

**Test Coverage:**

Number of main and alternate scenarios: 5

All 5 situations will be tested

100% coverage

**Use Case 10:** Delete Recipe

**Description:** User deletes recipe

**System under development:** Grumio’s List

**Actors:** user, system

**Goals:** User is able to delete any of their recipes.

**Steps:**

1. User navigates to a recipe they created.
2. User opens the dropdown menu for the recipe and clicks the Delete button.
3. System prompts user to confirm intent to delete:
4. User confirms intent.
5. System removes the recipe entry from the recipe database.
6. System notifies the user that the recipe was deleted successfully.

**Alternative Scenarios:**

4a. User cancels the deletion process.

4a1. The deletion screen closes.

5a. The system is unable to remove the recipe from the database.

5a1. The system displays a connectivity error message.

**Test Situations:**

1. The user successfully deletes the recipe.
2. The user cancels the recipe deletion.
3. The system loses connection.

**Test Coverage:**

Number of main and alternate scenarios: 3

All 3 situations will be tested

100% coverage

# Unit Testing:

**Account Creation:**

**Username:**

Valid:

Does not contain a special character.

length >= 2 characters long

Invalid:

Contains a special character

length < 2 characters

**Password:**

Valid:

length >= 8 characters

at least one number

at least one lower case letter

at least one upper case letter

no special character

Invalid:

length < 8 characters

no number

no lower case letter

no upper case letter

at least one special character

**User Is Added to List:**

Valid:

list.contains(username) == True

Invalid:

list.contains(username) == False

**Account Login:**

Valid:

Username in list of users

Invalid:

Username is not in list of users

# Acceptance Testing:

3 people have been shown the product, and 2 said they like the product. However everyone shown did say that the product is not ready for shipment yet, which makes sense. One user said that the product would be a lot better if there was more style in the website. Another user did appreciate the ability to attempt to sign in and that there is a navigation bar at the top of every page. As the product is not in a fully functional state yet, the users did not have very much else in terms of feedback. But what they did mention will be taken into consideration for improving the product.