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## Testing

### **Login Page**

- White Box Test - if the user enters the correct username and password, the web application should allow the user to login and bring them to the home/explore page
- White Box Test - if the user enters valid username, incorrect password, the web application should print a message saying incorrect username or password and clear the input fields
- White Box Test - if the user enters an incorrect username and/or password, the web application should print a message saying incorrect username or password and clear the input fields
- White Box Test - the password hint shows up when the user enters the correct username and email if not prints a message saying incorrect username and or email
- Unit Test - make sure SQL code entered in username or password field doesn't execute against database
- Black Box Test
  1. User clicks the "login/register" button on the home page which takes them to the login page.
  2. User must enter a valid username and password.
  3. User hits the "login" button.
  4. User is redirected to the website home page and is now signed in.

### **Register/Sign Up Page**

- White Box Test - username already registered, if so should say username already exists
- White Box Test - email formatted correctly? if not say username/email does not exist
- White Box Test - password not enough characters, should print a message saying insufficient characters
- Unit Test - Make sure SQL code entered in username or password field doesn't execute against database
- Black Box Test
  1. user clicks the "login/register" button on the home page and clicks the "register" tab
  2. user must enter a username, email, password, and password hint
  3. user hits the submit button

4. user is directed to home page and is now logged in, with the account stored in the system

### **Individual Posts**

- Image
  - Unit Test - Image types and bad files
  - Black Box Test - Image limit, do not allow more images that limit at time of upload
    1. User goes to post
    2. User uploads images of limit
      - a. Have a note that there is a image limit
      - b. Block upload over limit
  - Black Box Test - Image dimensions and display
    1. Upload images of varying sizes
      - a. Account for too small / too large
      - b. Block upload of such images with note of image size restrictions
- Recipe
  - White Box Test - Sizing/display of recipe
    1. Make sure recipe text displays properly and fits dimensions
  - Black Box
    - 1. User clicks the full recipe button
    - 2. User will be redirected to another page with either the uploaded pdf or the website the recipe is linked to
- Rating
  - Unit Test - Proper rating average
  - Black Box Test - User can only select from range of ratings
- Comments
  - White Box Test - Comment length limit
  - Unit Test - Deleted comments / comments from deleted account no longer show up
  - Black Box Test - Make sure all comments display
- Black Box Test
  1. User can click on any post's image or name and be directed to the individual post page.
  2. User can view all the comments, full description, link to recipe, and more.

### **Creating a New Post**

- Black Box Test
  1. User can create new post by clicking the new post button
  2. User can upload a photo, set a name, caption, and additional information.
    - a. Required Fields: recipe name, caption, estimated prep time, difficulty, cuisine, some form of recipe (pdf or link)
  3. User can paste a link to a webpage with the recipe or upload a recipe in a pdf format.
  4. User clicks on the post to post their recipe.

### **Deleting a Post**

- Unit Test - Delete a post and confirm its erasing from the database.
- Black Box Test
  1. User deletes a post by navigating to their profile to view their posts, then to the post in question and viewing it, which brings an option to delete.
  2. User then refreshes their page (post should be gone).
  3. User navigates to the search page and searches up tags that should under normal circumstances bring up that same post (post should not be in the search results).

### **Search**

- Unit Test:- Making sure searching a recipe gives the right output.
- Unit Test:- Sorting of Searches works.
- Black Box Test
  1. User clicks the search bar and is redirected to the search page
  2. User can search by categories like cuisine, prep time, difficulty level, etc.
  3. User can type any keyword(s) into the search bar and press enter
    - a. if there are relevant posts, display them in a list and allow users to filter their search
    - b. if no relevant posts, display message
    - c. if there are no posts with the search term, output the corresponding message

### **Saved Page**

- Unit Test:- Make sure it only displays posts that are saved
- Unit Test:- Make sure deleted posts don't appear
- Black Box Test
  1. user must click their account profile and navigate to the saved posts button
  2. users can see all the saved posts and is able to click on them for more information and recipes

### **Explore/Home Page**

- Unit Test:- Make sure displays in order
- Unit Test:- Back to top button
- Unit Test:- Make sure deleted posts don't appear
- Black Box Testing
  1. users can scroll through a feed with the most popular posts at the top
  2. user can view and comment on posts
    - a. if they are not logged in, show message and redirect them to the login page
  3. user can rate any post
    - a. if they are not logged in, show message and redirect them to the login page

4. user can view the full recipe if there is a pdf or separate website linked
5. if user reaches the bottom of the feed, they will see footer that tells them they reached the end and a button that redirects them to the top

### **Following Page**

- Unit Testing: Go to following page of user with no followers, make sure no crash and handled gracefully
- Black Box Test
  1. this feed is only available for users that are logged in
  2. can get here by clicking the explore / following button on their navigation bar
  3. user will see posts only from people they follow
  4. user can comment, rate, and view full recipes
  5. if user reaches the bottom of the feed, they will see footer that tells them they reached the end and a button that redirects them to the top

### **User Account Page**

- Black Box Test - If the Account ID specified in the URL doesn't exist, redirect to user does not exist page/URL and display user does not exist message
- Black Box Test – User account
  1. user must be logged in and click their account button in the nav bar
  2. page will display the user's account photo, username, bio, number of people they follow and number of people who follow them.
  3. user will see all their posts
  4. user can change their account settings by clicking the "settings" button
  5. user can see their saved posts by clicking the "saved" button
- Black Box Test – Account settings
  1. user can navigate to their account settings by clicking their user profile and the settings button
  2. settings page will popup
  3. user can change their account name
  4. user can change their password
  5. user can change their visibility to public or private
- Black Box Test – Other user accounts
  1. user can click on another username and see their profile
  2. design will look the same as the user profile without the saved posts page and the setting button

### **Groups/Chat Page**

- Black Box Test – All messages
  1. user clicks the messages button in the navigation bar
    - a. only applicable for users that are signed in
  2. user can view all their group messages and direct messages
- Black Box Test – Individual/Group chat
  1. user clicks the messages button on their home page

2. user can click on an individual chat room and message with the participants
  3. user can send and receive messages with this chat room
  4. user's messages are saved and reloaded after they sign in and out
- Regression Test - Ensure that updates to chat code doesn't impact previously sent chats/threads