**Recipe Generator Requirements**

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**1. Search Function**

**1.1 Search recipe High Priority**

The web application shall take in users’ input message and search for related recipes from the yummly.com through API. The user needs to type in the searching requirements in the homepage whenever the user needs to. The requirement shall be accomplished by providing an input box for the user to input the search items. This is high priority requirement so function must be accomplished when project delivered, test cases must be conducted and test results must to be passed at this stage.

**1.2 Show recipe search result High Priority**

The web application shall output the recipe search results in 10 seconds and in a nicely formatted way for the user. The search results need to be pulled from yummly.com through the API. Each search result needs to include a picture and name of the recipe and ingredients. The search results shall be provided in the same page under the search input box. The search result needs to be as comprehensive and related to the search input as possible. This is high priority requirement so function must be accomplished when project delivered, test cases must be conducted and test results must to be passed at this stage.

**1.3 Go to yummly.com from the search result Medium Priority**

The web application shall provide a link on each search result that will open up a new webpage that shows the specific information for that recipe. The link should go to the correct webpage and successfully deliver the yummly recipe webpage in 5 seconds. This is medium priority requirement so function must be accomplished when project delivered, test cases must be conducted and test results may or may not be passed at this stage.

**2. Account Management Function**

**2.1 Create Account High Priority**

The web application shall provide a link and open up a webpage for the new users to create their accounts. The web application should require the user to provide username, password and email to successfully sign up. The web application should remember the username, password, and email in the database and the web application creates a unique account identification number after the account is created. The web application shall provide a button for user to confirm creating the new account. This is high priority requirement so function must be accomplished when project delivered, test cases must be conducted and test results must to be passed at this stage.

**2.2 Create Account Validation Medium Priority**

The web application shall conduct an account creation validation when the user has confirmed the account creation through the button. The web application needs to check if the username and/or email already exist in the database. If there are duplicate username/email, the web application should inform the user and not creating the account with the given username, password, and email. This is medium priority requirement so function must be accomplished when project delivered, test cases must be conducted and test results may or may not be passed at this stage.

**2.3 Sign In High Priority**

The web application shall provide a link on the home page, and direct the return users to sign in their accounts. A sign-in webpage should be rendered. The web application should provide input boxes to require user to provide username, password to successfully sign in. The web application logs the user in to the profile page. The web application shall provide a button for user to confirm signing in the account. This is high priority requirement so function must be accomplished when project delivered, test cases must be conducted and test results must to be passed at this stage.

**2.4 Sign in Validation High Priority**

The web application shall conduct an account sign in validation when the user has confirmed signing in the account through the button. The web application should match the username and password that user types in to the input box with the username and password in the database. The web application should only log the user in if the username and password matches. If there are username and password combination doesn’t match, the web application should inform the user of unsuccessful sign in and not signing in to the profile with the given username and password. This is high priority requirement so function must be accomplished when project delivered, test cases must be conducted and test results must to be passed at this stage.

**2.5 Change Password Medium Priority**

The web application shall allow the user to change password when the user is signed in to the profile page. The web application should provide a link for the user to go in a webpage to change the password. To change the password, the web application should require the user to provide the input boxes of old password to change from, the new password to change into and the new password to confirm the change. The web application should provide a button for the user to commit the password change and the once the user commits the change, the password in the database for this account will be permanently changed. This is medium priority requirement so function must be accomplished when project delivered, test cases must be conducted and test results may or may not be passed at this stage.

**2.6 Change Password Validation Medium Priority**

The web application shall conduct a change password validation when the user has confirmed changing password through the button. The web application should match the password that user types in the old password input box with the database. If the old password does not match, the web application should inform the user of this invalid input. The web application should match the password that user types in the new password input box with second new password input box. If the two new passwords do not match, the web application should inform the user of this invalid input. The web application should only change the password for this account in the database if it passes the validation. This is medium priority requirement so function must be accomplished when project delivered, test cases must be conducted and test results may or may not be passed at this stage.

**2.7 Change Password Confirmation Low Priority**

The web application will provide a change password confirmation on the profile page once the password has successfully been changed in the database. This is low priority requirement so function may or may not be accomplished when project delivered, test cases may or may not be conducted and test results may or may not be passed at this stage.

**2.8 View Profile Information High Priority**

The web application shall provide the webpage of viewing the profile information once the user is signed in or has created account in 10 seconds. The profile information includes fields of first name, last name and bio. For first time users, these fields shall be empty. The fields will be nicely formatted. Under the profile information fields, the user shall be given links to edit the profile information, to log out this session, to change password, to view recipes, and to delete this account. This is high priority requirement so function must be accomplished when project delivered, test cases must be conducted and test results must to be passed at this stage.

**2.9 Edit Profile High Priority**

The web application shall provide a link and open up a webpage for users to edit their profile. New users will create their profile information when they are signed in to the profile page for the first time. The web application should provide input boxes for the user to provide first name, last name and a brief bio to successfully edit profile information. The web application shall provide a button for user to confirm editing the profile information. The web application should remember the user’s first name, last name, and bio in the database once the user confirms the editing. The web application creates a unique user identification number when first time users are signed in to the profile page. This is high priority requirement so function must be accomplished when project delivered, test cases must be conducted and test results must to be passed at this stage.

**2.10 Edit Profile Validation Medium Priority**

The web application shall conduct a profile editing validation when the user has confirmed the account creation through the button. The web application needs to check if the input contents are within limited size. First name and last name should be within 25 characters and bio should be within 2000 characters. This is medium priority requirement so function must be accomplished when project delivered, test cases must be conducted and test results may or may not be passed at this stage.

**2.11 Edit Profile Confirmation Low Priority**

The web application will provide a update profile confirmation on the profile page once the profile information has successfully been changed in the database. This is low priority requirement so function may or may not be accomplished when project delivered, test cases may or may not be conducted and test results may or may not be passed at this stage.

**2.12 Delete Profile/Account Medium Priority**

The web application shall provide the link for the user to delete his account, and consequently the profile information will be deleted for this account. Once the user has confirmed deleting this account, all related information, including the account username, password, profile first name, last name, bio and recipes will be deleted permanently from the database. This is medium priority requirement so function must be accomplished when project delivered, test cases must be conducted and test results may or may not be passed at this stage.

**2.13 View recipe High Priority**

The web application shall provide a link in the profile page, open up a webpage that allows the user to view the current recipes in his profile. The view recipe page will provide a list of recipes including fields of index of recipe, a recipe name and the actions that could perform on this recipe. Actions include show, edit and delete, in which show and edit are links that direct to edit and show page, delete is a deletion button. Above the recipe list, the web application should provide a link to add new recipes. This is high priority requirement so function must be accomplished when project delivered, test cases must be conducted and test results must to be passed at this stage.

**2.14 Add recipe High Priority**

The web application shall add the recipe in the add page. The web application should require the user to provide a recipe name and a brief recipe description to successfully add the new recipe. The web application should remember the recipe name and description in the database and the web application creates a unique recipe identification number after the new recipe is created. The web application shall provide a button for user to confirm creating the new recipe. This is high priority requirement so function must be accomplished when project delivered, test cases must be conducted and test results must to be passed at this stage.

**2.15 Add recipe Validation Medium Priority**

The web application shall conduct a recipe adding validation when the user has confirmed the recipe creation through the button. The web application needs to check if the input contents are within limited size. Recipe name should be within 50 characters and recipe description should be within 2000 characters. This is medium priority requirement so function must be accomplished when project delivered, test cases must be conducted and test results may or may not be passed at this stage.

**2.16 Add recipe confirmation Low Priority**

The web application will provide a add recipe confirmation on the recipe view page once the recipe information has successfully been added in the database. This is low priority requirement so function may or may not be accomplished when project delivered, test cases may or may not be conducted and test results may or may not be passed at this stage.

**2.17 Edit recipe High Priority**

The web application shall provide a link and open up a webpage for users to edit their recipe. The web application should provide input boxes for the user to provide recipe name and a brief description to successfully edit recipe information. The web application shall provide a button for user to confirm editing the recipe information. The web application should remember this recipe name and recipe description in the database once the user confirms the editing. This is high priority requirement so function must be accomplished when project delivered, test cases must be conducted and test results must to be passed at this stage.

**2.18 Edit recipe Validation Medium Priority**

The web application will provide a change profile confirmation on the profile page once the profile information has successfully been changed in the database. This is low priority requirement so function may or may not be accomplished when project delivered, test cases may or may not be conducted and test results may or may not be passed at this stage.

**2.19 Edit recipe confirmation Low Priority**

The web application will provide an update recipe information confirmation on the recipe view page once the recipe information has successfully been changed in the database. This is low priority requirement so function may or may not be accomplished when project delivered, test cases may or may not be conducted and test results may or may not be passed at this stage.

**2.20 Delete recipe High Priority**

The web application shall provide a button for the user to delete a certain recipe. Once the user has clicked deleting this recipe, all related information, including the recipe id, recipe name and recipe description will be deleted permanently from the database. This is medium priority requirement so function must be accomplished when project delivered, test cases must be conducted and test results may or may not be passed at this stage.

**2.21 Logout session Medium Priority**

The web application shall provide a link on the profile view page to log out the current session. Once the user clicked on the logout link, the user will be logged out his account and he/she will no longer stay on the profile view page. This is low priority requirement so function may or may not be accomplished when project delivered, test cases may or may not be conducted and test results may or may not be passed at this stage.

**2.23 Logout confirmation Low Priority**

The web application will provide a successfully logout confirmation on a new webpage once the current session is closed and the user is logged out of his account. This is low priority requirement so function may or may not be accomplished when project delivered, test cases may or may not be conducted and test results may or may not be passed at this stage.