

Waste To Taste

Test Case Specifications

Version 1.0

April 1, 2024

Delbert Li
Lucas Prifti
Saadman Choudhury

Revision History

Date	Description	Author	Comments
4/1/2024	Version 1.0	- Delbert Li - Lucas Prifti - Saadman Choudhury	First Draft of Test document submitted

Document Approval

The following Product Design Specification has been accepted and approved by the following:

Signature	Printed Name	Title	Date
	Delbert Li	<ul style="list-style-type: none">• Team Lead• Presentation Lead• Assistant Documentation Lead• UI/Frontend Lead	
	Lucas Prifti	<ul style="list-style-type: none">• Database/Backend Lead• Presentation Lead• Note-Taker• QA Lead	
	Saadman Choudhury	<ul style="list-style-type: none">• Documentation Lead• UI/Frontend Lead, Assistant Database/Backend Lead	
	Dr. Seyed Ziae Mousavi Mojab	<ul style="list-style-type: none">• Professor	

Table of Content

User Registration	5
TC-1	5
TC-2	5
TC-3	6
TC-4	7
TC-5	7
User Login	8
TC-6	8
TC-7	9
TC-8	9
User Profile Update	10
TC-9	10
TC-10	11
Create New Recipe	11
TC-11	12
TC-12	12
TC-13	13
Edit Recipe	13
TC-14	13
Delete Recipe	15
TC-15	15
TC-16	16
View and Explore Recipes	17
TC-17	17
TC- 18	18
TC-19	19
TC-20	20
TC-21	20
Sharing Recipe	21
TC-22	21
TC-23	22
Logout	22
TC-24	22
TC-25	23
Password Reset	23
TC-26	24
TC-27	24

Recipe Creation and Management	25
TC-28	25
Dashboard and User Interactions	26
TC-29	26
Search and Explore	26
TC-30	26
Food Lists and Collections	27
TC-31	27
TC-32	28
TC-33	28
TC-34	29
Delete User Profile	30
TC-35	30
Integration Test Cases	30
ITC-1	30
ITC-2	32
ITC-3	33
Performance Test Case	34
PTC-1	35
Security Test Cases	35
SecurityTC-1	36
SecurityTC-2	36
SecurityTC-3	37
System Test Case	38

User Registration

ID	TC-1
Item To Test	Registration
Description	To test a successful case of user registration
Pre-Conditions	<ol style="list-style-type: none">1. Have no existing user account2. Be at the registration page3. Have a valid email address that is not currently being used by an existing profile.4. Ensure the web portal's server is up and running.5. Internet connection must be stable.
Test Steps	<ol style="list-style-type: none">1. Enter "Herbert" in the first name field2. Enter "Sherbert" in the last name field.3. Enter the valid and unused email address in the email field.4. Enter a password which has at least 8 characters containing at least: 1 uppercase letter, 1 lowercase letter, 1 number and 1 symbol. (e.g Hello!123)5. Select the 'Sign up' button.
Expected Results	<ol style="list-style-type: none">1. The system should process the information without errors.2. A confirmation message should appear, stating the registration was successful, and an email is being sent to the user.3. A confirmation email, containing the verification link should be sent to the user provided email address.4. The new user should be taken to the login page upon clicking the verification link in their email..
Priority	High
Pass/fail	<p>Pass: If the system has processed the inputted information without any errors, a confirmation message has appeared and the verification link has been sent to the user's inputted email.</p> <p>Fail: If there are any issues with the registration process, or if the user data fails to save into the database.</p>

ID	TC-2
Item To Test	Registration
Description	Attempting to register using a duplicate email (already in use)
Pre-Conditions	<ol style="list-style-type: none">1. Have an existing account created, which is already using the email address to be tested.2. User must be at the registration page

	3. Internet connection must be stable.
Test Steps	<ol style="list-style-type: none"> 1. Enter the email address already associated with an existing account in the email field. 2. Enter First and Last name 3. Enter a password which has at least 8 characters containing at least: 1 uppercase letter, 1 lowercase letter, 1 number and 1 symbol. (e.g Hello!123) 4. Click on the 'Sign up' button.
Expected Results	<ol style="list-style-type: none"> 1. The system should not allow the registration to proceed. 2. An error message should be displayed, indicating that the email is already in use. 3. The user should remain on the registration page.
Priority	High
Pass/fail	<p>Pass: if the system does not allow a successful registration, and displays an error message, prompting the user to select a different email for the login process.</p> <p>Fail: if the system allows the creation of a new account, with a duplicate email.</p> <p>Also the test case will fail if no error messages pop-up notifying the user to use a different email.</p>

ID	TC-3
Item To Test	Registration
Description	Registering with Invalid Email Format
Pre-Conditions	<ol style="list-style-type: none"> 1. User is Logged out 2. User is on registration page
Test Steps	<ol style="list-style-type: none"> 1. Enter any first name containing letters only in the “First Name” field. (e.g Herbert) 2. Enter any last name containing letters only in the “Last Name” field. (e.g Sherbert) 3. Enter an email in an invalid format (e.g., "user@@domain", "user.com") in the email field. 4. Enter a password which has at least 8 characters containing at least: 1 uppercase letter, 1 lowercase letter, 1 number and 1 symbol. (e.g Hello!123) 5. Click on the 'Sign up' button.
Expected Results	<ol style="list-style-type: none"> 1. The system should not accept the email address and prevent the registration from proceeding. 2. An error message should be displayed, indicating the email format is invalid, stating: <ol style="list-style-type: none"> a. “Please enter a valid email” b. The error message will not disappear until the error is corrected, and the correct email resubmitted. 3. The user should remain on the registration page.

Priority	Medium
Pass/fail	<p>Pass: if the invalid email has not been accepted, submission and the user is still on the registration page, with the error message displaying below the “Sign Up” button. The error message must stay on the user’s screen until they make changes accordingly.</p> <p>Fail: if the invalid email format has not been detected, allowing the user to create a profile with an invalid email, or if there’s any deviation from the expected results.</p>

ID	TC-4
Item to test	Registration
Description	Registering using Weak Password
Pre-Conditions	<ol style="list-style-type: none"> 1. Be at the registration page 2. Have a valid email address that has not been used to register an account before. 3. Internet connection must be stable.
Test Steps	<ol style="list-style-type: none"> 1. Enter a valid and unused email address in the email field. 2. Enter a “Herbert” in the email field. 3. “Herbert” in the password field 4. Select the 'Sign up' button.
Expected Results	<ol style="list-style-type: none"> 1. The system should reject the password and prevent the registration from proceeding. 2. An error message should be displayed, indicating the password is too weak or does not meet the specific complexity requirements. 3. The user should remain on the registration page, prompted to enter a stronger password.
Priority	High
Pass/fail	<p>Pass: If the system has rejected the password and prevented the registration process from going any further. The system must also display an error message stating that the password format is invalid.</p> <p>Fail: If the system accepts the password, or if an error message does not pop up prompting the user to change.</p>

ID	TC-5
Item to test	Registration
Description	Registering with Blank Fields

Pre-Conditions	<ol style="list-style-type: none"> 1. Be at the registration page 2. Internet connection must be stable.
Test Steps	<ol style="list-style-type: none"> 1. Leave one or more required fields (email, first name, last name or password) empty. 2. Attempt to register by selecting the 'Sign up' button.
Expected Results	<ol style="list-style-type: none"> 1. The system should not allow the registration to proceed. 2. An error message should be displayed, indicating all required fields must be completed. 3. The user should remain on the registration page, prompted to fill in the missing information.
Priority	High
Pass/fail	<p>Pass: If the system has rejected the blank input and prevented the registration process from going any further. The system must also display an error message stating that the empty fields must be filled.</p> <p>Fail: If the system accepts the blank field as an input, or if an error message does not pop up prompting the user to change.</p>

User Login

ID	TC-6
Item to Test	User Login
Description	Successful User Login
Pre-Conditions	<ol style="list-style-type: none"> 1. Have an existing, verified user account. 2. Know the correct email and password associated with the account. 3. Be on the login page.
Test Steps	<ol style="list-style-type: none"> 1. Enter the corresponding email address into the email field. 2. Enter the corresponding password into the password field. 3. Click the 'Login' button.
Expected Results	<ol style="list-style-type: none"> 1. Login is successful. 2. User session token is generated and the user can now access features available only to logged-in users. 3. Users are redirected to their personal account dashboard.
Priority	High

Pass/fail	<p>Pass: If the login attempt is successful and the user is directed to the account dashboard page.</p> <p>Fail: If there are any errors preventing the login attempt to successfully be completed. Also it is a fail if the user is not redirected to their account dashboard once logged in.</p>
-----------	--

ID	TC-7
Item To Test	User Login
Description	Logging in using Blank Fields
Pre-Conditions	<ol style="list-style-type: none"> 1. Be on the login page.
Test Steps	<ol style="list-style-type: none"> 1. Leave the email field empty. 2. Leave the password field empty. 3. Click the 'Login' button.
Expected Results	<ol style="list-style-type: none"> 1. Login fails. 2. An error message indicates that both fields are required. 3. The user remains on the login page with empty fields highlighted or indicated.
Priority	High
Pass/fail	<p>Pass: If the system has rejected the blank input and prevented the login process from going any further. The system must also display an error message stating that the empty fields must be filled.</p> <p>Fail: If the system accepts the blank field as an input, or if an error message does not pop up prompting the user to change.</p>

ID	TC-8
Item To Test	User Login
Description	Session Persistence
Pre-Conditions	<ol style="list-style-type: none"> 1. Users must be successfully logged in to create a session. 2. Be on a page that is part of the user's session.
Test Steps	<ol style="list-style-type: none"> 1. Reload the current page or navigate to another page within the site. 2. Close and reopen the browser, then navigate back to the site without logging in again. 3. Check if the site requires the user to log in again.

Expected Results	<ol style="list-style-type: none"> 1. Upon page reload, the user remains logged in. 2. After closing and reopening the browser, the user's session persists without needing to log in again, if the site supports session persistence across browser sessions. 3. The user can continue to access features available to logged-in users without interruption.
Priority	Medium
Pass/fail	<p>Pass: If the user remains logged in upon the reload, and after closing the page and reopening it, the user session is still active and they do not need to login again, until they click sign out, or until the session key has expired.</p> <p>Fail: If the user has been logged out after reloading the page, or after closing the browser and reopening it, without manually logging out before closing the browser.</p>

User Profile Update

ID	TC-9
Item to Test	User Profile Update
Description	Successful User Profile Update
Pre-Conditions	<ol style="list-style-type: none"> 1. The user is logged into their account. 2. The user is on the profile update page.
Test Steps	<ol style="list-style-type: none"> 1. Enter new valid information into the profile fields (First Name or Last Name). 2. Click the 'Save Changes' button.
Expected Results	<ol style="list-style-type: none"> 1. The profile is successfully updated. 2. The user's profile details are changed according to the new information provided.
Priority	High
Pass/fail	Pass: The profile has successfully updated, updating the information in the

	<p>database, and once updating, the new information should automatically show on the account dashboard.</p> <p>Fail: If there are any issues with the profile update information, the information hasn't been updated correctly in the database, or if the new user information does not show on the account dashboard.</p>
--	---

ID	TC-10
Item To Test	User Profile Update
Description	Updating Profile using Blank Fields
Pre-Conditions	<ol style="list-style-type: none"> 1. The user is logged into their account. 2. The user is on the profile update page.
Test Steps	<ol style="list-style-type: none"> 1. Leave one or more required fields (First Name or Last Name) empty. 2. Click the 'Save Changes' button.
Expected Results	<ol style="list-style-type: none"> 1. The profile update fails. 2. An error message is displayed indicating that all required fields must be filled out. 3. The user's profile details remain unchanged.
Priority	High
Pass/fail	<p>Pass: If the system has rejected the blank input and prevented the update profile process from going any further. The system must also display an error message stating that the empty fields must be filled.</p> <p>Fail: If the system accepts the blank field as an input, or if an error message does not pop up prompting the user to change.</p>

Create New Recipe

ID	TC-11
-----------	--------------

Item To Test	Create New Recipe
Description	Successful Creation
Pre-Conditions	<ol style="list-style-type: none"> 1. The user has an account. 2. The user is logged in and has a valid token in the localStorage. 3. User is in the Create New Recipe Page
Test Steps	<ol style="list-style-type: none"> 1. Fill in the title field with a valid recipe name. 2. Add at least one ingredient to the ingredients list. 3. Add at least one step to the instructions list. 4. Optionally, fill in the description, add tags, and provide a valid YouTube video URL. 5. Click the 'Save Recipe' button.
Expected Results	<ol style="list-style-type: none"> 1. A POST request is made to the API with the recipe data. <ol style="list-style-type: none"> a. The database recipes model will create a new recipe id and update it with the new information: title, ingredients, instructions, description, videoURL, tags, allergens 2. The server responds with a notification displaying 'Recipe saved successfully' indicating that the database now contains the new recipe data. 3. When the user views their View All Recipe page, they will see their newly created recipe
Priority	High
Pass/fail	<p>Pass: If the tester receives the success confirmation and the recipe is saved in the "View All Recipes" page</p> <p>Fail: If the tester receives the failed to save confirmation.</p>

ID	TC-12
Item To Test	Create New Recipe
Description	Failed recipe creation from Missing Title
Pre-Conditions	<ol style="list-style-type: none"> 1. The user has an account. 2. The user is logged in and has a valid token in the localStorage. 3. User is in the Create New Recipe Page
Test Steps	<ol style="list-style-type: none"> 1. Leave the title field empty. 2. Fill in the other fields with valid data, including at least one ingredient and one instruction, and a description of any length. 3. Click the 'Save Recipe' button.
Expected Results	<ol style="list-style-type: none"> 1. The system will prevent submission and introduce a pop up to notify the user that there is an error in saving.
Priority	High

Pass/fail	<p>Pass: If the user is met with the failed save recipe confirmation and the recipe is not saved in the View All Recipess page.</p> <p>Fail: If the user is met with the successful saved recipe confirmation and the recipe is now saved in the View All Recipes page.</p>
-----------	---

ID	TC-13
Item To Test	Create New Recipe
Description	Testing failed recipe creation from Missing description
Pre-Conditions	<ol style="list-style-type: none"> 1. The user has an account. 2. The user is logged in and has a valid token in the localStorage. 3. User is in the Create New Recipe Page
Test Steps	<ol style="list-style-type: none"> 1. Fill in title field with a valid recipe name 2. Add at least 1 ingredient and 1 instruction for their respective input fields 3. Leave the description field empty 4. Click the 'Save Recipe' button
Expected Results	<ol style="list-style-type: none"> 1. The system will prevent submission and introduce a pop up to notify the user that there is an error in saving.
Priority	High
Pass/fail	<p>Pass: If the user is met with the failed save recipe confirmation and the recipe is not saved in the View All Recipess page.</p> <p>Fail: If the user is met with the successful saved recipe confirmation and the recipe is now saved in the View All Recipes page.</p>

Edit Recipe

ID	TC-14
Item To Test	Recipe Details
Description	Testing the successful editing of a recipe

Pre-Conditions	<ol style="list-style-type: none"> 1. The user has an account. 2. The user is logged in and has a valid token in the localStorage. 3. User has at LEAST 1 recipe saved from Explore New Creations or Create New Recipe 4. User is on the View All Recipes page and has clicked on the 'View Recipe' button on a recipe card to access the 'recipe details' 5. User has clicked on the edit button within the top right portion of 'recipe details' to access 'editing mode'
Test Steps	<ol style="list-style-type: none"> 1. Within the 'recipe details' 'editing mode' the User may modify any of the existing elements including the <ol style="list-style-type: none"> a. title, ingredients, instructions, tags, allergens, YouTube URL, and description fields with new valid information. 2. The following input fields must have at least 1 element in it, in order to save properly. <ol style="list-style-type: none"> a. Title(Text) b. Description(Text) 3. The following input fields do not require any element in order to save properly <ol style="list-style-type: none"> a. Ingredients(Text) <ol style="list-style-type: none"> i. In order to add more input fields for a larger list of ingredients the user must click the green 'Add Ingredient' button within the bottom of the ingredient container to add another input field for the user to add a new ingredient in. ii. If the user has too many ingredient input fields and needs to remove them, each input field after the first will have a red "remove" button directly underneath it that if clicked will remove it's respective ingredient input field. iii. The first ingredient input field cannot be removed b. Instructions(Text) <ol style="list-style-type: none"> i. In order to add more input fields for a larger list of instructions the user must click the green 'Add Instruction' button within the bottom of the instruction container to add another input field for the user to add a new instruction in. ii. If the user has too many instruction input fields and needs to remove them, each input field after the first will have a red "remove" button directly underneath it that if clicked will remove it's respectiveinstruction input field. iii. The first instruction input field cannot be removed c. Tags(DropDown menu) <ol style="list-style-type: none"> i. The red "remove" button to the right of each tag if clicked will remove it's respective tag. ii. To add a tag, click on "select a tag" and then click on any of the options, it will add it as a tag. d. Allergens(Checkbox) <ol style="list-style-type: none"> i. To confirm whether an allergen is present in the recipe, the checkbox to the left of the allergen must be checked with a checkmark by clicking on it. ii. To remove the allergen, click on it again to uncheck the box. e. YouTube Video URL(Text URL) 4. Click the 'Save Changes' button on the top of the 'editing mode' to submit the

	changes.
Expected Results	<ol style="list-style-type: none"> After clicking 'Save Changes' PUT request is made to the API with the updated recipe data. <ol style="list-style-type: none"> It will first confirm if the user is valid with <code>localStorage.getItem(token)</code> <ol style="list-style-type: none"> To verify authorization Then the database recipes model will update this information related to the recipe id: title, ingredients, instructions, description, videoURL, tags, allergens The server responds with a successful status and returns the updated recipe data. The user will then be automatically brought back to the 'recipe details' viewing page The user interface updates to reflect the changes made to the recipe.
Priority	High
Pass/fail	<p>Pass: After saving changes if the user is met with the recipe successfully saved notification and is brought back to the viewing page of the recipe and can see the changes made to the recipe.</p> <p>Fail: After saving the changes if the user is met with the failed to update the recipe notification and the edits are not saved/visible when viewing the recipe.</p>

Delete Recipe

ID	TC-15
Item To Test	Recipe Details
Description	Successful deletion of a recipe
Pre-Conditions	<ol style="list-style-type: none"> The user has an account. The user is logged in and has a valid token in the <code>localStorage</code>. User has at LEAST 1 recipe saved from Explore New Creations or Create New Recipe User is View All Recipes page and has clicked on the 'View Recipe' button on a recipe card to access the 'recipe details' User has clicked on the edit button within the top right portion of 'recipe details' to access 'editing mode'
Test Steps	<ol style="list-style-type: none"> Within the 'recipe details' 'editing mode' the User will then click on the red 'delete' button near the top of the page by the title input field and the golden 'save changes' button. Click on the red 'delete' button. After clicking a confirmation pop-up will appear with the message "Are you

	<p>sure you want to delete this recipe?” and 2 button options. The first is a red ‘yes, delete’ button that will delete the recipe, and a black ‘cancel’ button that will cancel and close the pop-up.</p> <p>4. Click on the red ‘yes, delete’ button.</p>
Expected Results	<ol style="list-style-type: none"> 1. The deletion request is sent to the server. 2. Server then deletes the recipe from the database. <ol style="list-style-type: none"> a. Id, title, ingredients, instructions, description, videoURL, tags, allergens 3. The server responds with a successful status, indicating the recipe has been deleted. 4. The user receives a confirmation notification “Recipe deleted successfully” confirming that the recipe was deleted successfully. 5. The user is redirected to the View All Recipes page, and will notice that the deleted recipe is no longer in the page.
Priority	High
Pass/fail	<p>Pass: After confirming the deletion of the recipe, the user will be met with the recipe deleted successfully and will be brought back to the viewing page where the user will exit and can see that the recipe no longer exists in their View All Recipes page.</p> <p>Fail: After confirming the deletion of the recipe the user will be met with a error deleting recipe. The user will still be in the editing page and will find the recipe still shown in the View All Recipes page.</p>

ID	TC-16
Item To Test	Recipe Details
Description	Cancel Deletion
Pre-Conditions	<ol style="list-style-type: none"> 1. The user has an account. 2. The user is logged in and has a valid token in the localStorage. 3. User has at LEAST 1 recipe saved from Explore New Creations or Create New Recipe 4. User is View All Recipes page and has clicked on the ‘View Recipe’ button on a recipe card to access the ‘recipe details’ 5. User has clicked on the edit button within the top right portion of ‘recipe details’ to access ‘editing mode’
Test Steps	<ol style="list-style-type: none"> 1. Within the ‘recipe details’ ‘editing mode’ the User will then click on the red ‘delete’ button near the top of the page by the title input field and the golden ‘save changes’ button. 2. Click on the red ‘delete’ button. 3. After clicking a confirmation pop-up will appear with the message “Are you sure you want to delete this recipe?” and 2 button options. The first is a red ‘yes, delete’ button that will delete the recipe, and a black ‘cancel’ button that

	<p>will cancel and close the pop-up.</p> <p>4. Click on the black 'cancel' button.</p>
Expected Results	<ol style="list-style-type: none"> 1. The deletion process is halted, the pop-up closes, and no request is sent to the server. 2. The user remains in the 'editing mode' of recipe details 3. If the user were to navigate back to View All Recipe, the recipe would still be there.
Priority	High
Pass/fail	<p>Pass: After the user clicks cancel, the "Are you sure you want to delete this recipe" notification will close and the user will remain in the editing page of the recipe details.</p> <p>Fail: After the user clicks cancels, the user is met with a successful recipe deleted notification and the recipe will no longer show up in their ViewAllRecipes page.</p>

View and Explore Recipes

ID	TC-17
Item To Test	View All Recipes
Description	Testing the fetching recipe function of View All Recipes
Pre-Conditions	<ol style="list-style-type: none"> 1. The user has an account. 2. The user is logged in and has a valid token in the localStorage. 3. User has at LEAST 1 recipe saved from Explore New Creations or Create New Recipe 4. User is "View All Recipes" page
Test Steps	<ol style="list-style-type: none"> 1. "View All Recipes" page will have all of the user saved recipes, displayed in a small form recipe card 2. Each recipe card should show at least the recipe's, a green 'view recipe' button, small description box, golden tags if applicable, a green share button, then red allergen tags if applicable. 3. Under the main page title 'View All Recipe' there will be a white search bar, followed by a small "filter by tags:" header with gold tags associated with tags from each saved recipe.
Expected Results	<ol style="list-style-type: none"> 1. The application fetches and displays all recipes from the backend "recipes" model without errors, in the form of recipe cards. 2. Recipes are listed and displayed in recipe cards and can be visually identified by their titles, description, tags, and allergens.

Priority	High
Pass/fail	<p>Pass: After entering the View All Recipes page, the user is met with their recipes that are shown in recipe cards with (Title, View Recipe, description, tags, share, and allergens)</p> <p>Fail: After entering the View All Recipes page, instead of seeing recipe cards, the user will be greeted with the text “Failed to fetch recipes” or “no recipes shown”</p>

ID	TC- 18
Item To Test	RecipeDetails/SharedRecipeDetails
Description	Testing the View All Recipes/Explore New Creation: Filter By Tag and search.
Pre-Conditions	<ol style="list-style-type: none"> 1. The user has an account. 2. The user is logged in and has a valid token in the localStorage. 3. “View All Recipe”:User has at LEAST 1 recipe saved from “Explore New Creations” or “Create New Recipe” 4. “Explore New Creation”: There must be at least one recipe in the database of “shared recipes” that can be fetched. 5. User is “View All Recipes” page or “Explore New Creations” page
Test Steps	<ol style="list-style-type: none"> 1. Within either the “View All Recipes” or “Explore New Creations” page navigate to the top and locate the “Filter by tags:” header. 2. Click on one or multiple tag golden tag buttons(underneath the header) to filter recipes by those tags. <ol style="list-style-type: none"> a. Selected tags will darken, indicating they are selected. b. Reclicking on a selected tag will deselect it, and will be indicated by the lightening of the tag button color. 3. Observe the list of recipes filtered based on the selected tag(s). <hr/> <ol style="list-style-type: none"> 1. Within either the “View All Recipes” or “Explore New Creations” page navigate to the top and locate the “Search” bar 2. Click the bar and enter either the name or tags associated with any recipe. 3. The page will modify and will only show the recipes that have the keyword that you’ve typed into the search bar.
Expected Results	<ol style="list-style-type: none"> 1. Only recipes containing the selected tag(s) are displayed. 2. The user can toggle tags on/off to refine or expand the visible recipes list. <hr/>

	1. Only the recipes containing the keywords that are typed in the search bar will be displayed. After user clears the search bar, every saved recipe will show up
Priority	Medium
Pass/fail	<p>Pass: After clicking on the tags that the user wants to filter for the recipes, as long as there is a recipe with the selected tag or combination of tags, only those recipes will be shown in the entire page.</p> <p>Fail: After clicking on the tags that the user wants to filter for the recipes, they will be met with a “no recipes shown” despite there being a recipe containing the selected tags.</p>

ID	TC-19
Item To Test	Recipe Details/Shared Recipe Details
Description	Testing the View Recipe function of View All Recipes and ExploreNewCreation
Pre-Conditions	<ol style="list-style-type: none"> 1. The user has an account. 2. The user is logged in and has a valid token in the localStorage. 3. “View All Recipe”:User has at LEAST 1 recipe saved from “Explore New Creations” or “Create New Recipe” 4. “Explore New Creation”: There must be at least one recipe in the database of “shared recipes” that can be fetched. 5. User is “View All Recipes” page or “Explore New Creations” page, and can see the recipe cards.
Test Steps	<ol style="list-style-type: none"> 1. Navigate to see any recipe card. 2. Click the green "View Recipe" button on any recipe card. 3. Observe the detailed view of the recipe, including the title, tags, description, allergens, ingredients, instructions, and YouTube video.
Expected Results	<ol style="list-style-type: none"> 1. The application navigates the user to a detailed page for the selected recipe. <ol style="list-style-type: none"> a. Details include: title, tags, description, allergens, ingredients, instructions, and YouTube video.
Priority	High
Pass/fail	<p>Pass: When the user clicks on the “View Recipe” button and is met with a structured page with the recipes details,(Title, Description, Tags, Allergens, Ingredients, Instructions, and videoURL if applicable). The video should be playable(if there is a video) and the ingredients and instructions should allow the user to cross out any ingredient or instruction by clicking it.</p> <p>Fail: When the user clicks on the “View Recipe” button and is led to an empty page with no details.</p>

ID	TC-20
Item To Test	View All Recipes/Explore New Creation
Description	Testing the View All Recipes/Explore New Creation: Recipe Card Description Quick View
Pre-Conditions	<ol style="list-style-type: none"> 1. The user has an account. 2. The user is logged in and has a valid token in the localStorage. 3. “View All Recipe”:User has at LEAST 1 recipe saved from “Explore New Creations” or “Create New Recipe” 4. “Explore New Creation”: There must be at least one recipe in the database of “shared recipes” that can be fetched. 5. User is “View All Recipes” page or “Explore New Creations” page
Test Steps	<ol style="list-style-type: none"> 1. Navigate to see any recipe card. 2. Click the black with light grey border description box on any recipe card. It is located underneath the large green “View Recipe” button and above the golden tags(if tags are in the recipe) 3. A description modal will fully display the description content.
Expected Results	<ol style="list-style-type: none"> 1. A pop-up window(from Description Modal) will pop up with the contents of the recipe’s description fully displayed. 2. User can exit the modal by clicking the large blue “okay” button
Priority	High
Pass/fail	<p>Pass: When the user clicks on the description box on the recipe card, a pop-up box will appear showing the full contents of the description. They can then click the blue Okay button to close it.</p> <p>Fail: When you click on the description box on the recipe card, nothing happens.</p>

ID	TC-21
Item To Test	View All Recipes/Explore New Creation
Description	Testing the View All Recipes/Explore New Creation: Recipe Card Allergen Quick View
Pre-Conditions	<ol style="list-style-type: none"> 1. The user has an account. 2. The user is logged in and has a valid token in the localStorage. 3. “View All Recipe”:User has at LEAST 1 recipe saved from “Explore New Creations” or “Create New Recipe” 4. “Explore New Creation”: There must be at least one recipe in the database of “shared recipes” that can be fetched. 5. User is “View All Recipes” page or “Explore New Creations” page
Test Steps	<ol style="list-style-type: none"> 1. Navigate to see any recipe card. 2. Click on the red allergen tags, located on the bottom of the recipe cards,

	<p>underneath the golden tags(if the recipe contains tags)</p> <p>3. A allergen modal will fully display the allergen content.</p>
Expected Results	<p>1. A pop-up window(from Allergen Modal) will pop up with the contents of the recipe's allergens fully displayed.</p> <p> a. If the recipe contains allergens, it will list the allergens present.</p> <p> b. If the recipe contains no allergens, it will say allergen free.</p> <p>2. User can exit the modal by clicking the large blue "okay" button</p>
Priority	High
Pass/fail	<p>Pass: When the user clicks on the allergen tag on the bottom of the recipe card, a pop-up box will appear showing the full contents of the allergens. They can then click the blue Okay button to close it.</p> <p>Fail: When you click on the allergen tag on the recipe card, nothing happens.</p>

Sharing Recipe

ID	TC-22
Item To Test	View All Recipes
Description	Testing the View All Recipes: Share Recipe function
Pre-Conditions	<p>1. The user has an account.</p> <p>2. The user is logged in and has a valid token in the localStorage.</p> <p>3. "View All Recipe":User has at LEAST 1 recipe saved from "Explore New Creations" or "Create New Recipe"</p> <p>4. User must be on the View All Recipes page.</p>
Test Steps	<p>1. Navigate to a recipe that you want to share.</p> <p>2. Click on the green "Share" button on the recipe card.</p> <p>3. Observe the response or notification indicating the recipe has been shared.</p>
Expected Results	<p>1. The application sends a POST request to the server with the recipe ID to share the recipe.</p> <p>2. The server responds successfully, and the user receives confirmation that the recipe has been shared, through a notification "Recipe shared successfully"</p> <p>3. Recipe is now available in the Explore New Creations page</p>
Priority	Medium
Pass/fail	<p>Pass: To pass, after the user clicks the share button the user will be met with a notification "Recipe shared successfully" and the user will show up in the Explore New Creations page.</p>

	Fail: After the user clicks on the share button, the user will be met with a notification “Failed to share the recipe. Please try again.” When checking the Explore New Creations the recipe is not there.
--	--

ID	TC-23
Item To Test	Explore New Creations
Description	Testing the Explore New Creations: Save Recipe function
Pre-Conditions	<ol style="list-style-type: none"> 1. User has an account. 2. User is logged in and has a valid token in the localStorage. 3. User must be on the Explore New Creations page.
Test Steps	<ol style="list-style-type: none"> 1. Navigate to a recipe. 2. Click on the View Recipe button 3. Review the recipe, and if the user likes it, they will navigate to the bottom of the recipe viewing page and click on the blue “Save Recipe” button 4. User will be met with a notification “Recipe saved successfully” and the recipe will be seen in the user’s View All Recipes page.
Expected Results	<ol style="list-style-type: none"> 1. The application sends a POST request to the server with the recipe details to save it. 2. The server responds successfully, and the user receives confirmation that the recipe has been saved to their profile. 3. The user's saved recipes list is updated to include the newly saved recipe.
Priority	High
Pass/fail	<p>Pass: After user clicks the save recipe button, they will be met with the notification “Recipe saved successfully” and when you check your View All Recipes page, you will now see the newly saved recipe there</p> <p>Fail: After user clicks the save recipe button, they will be met with the notification ‘ERROR: Failed to save the recipe’</p>

Logout

ID	TC-24
Item To Test	Logout

Descriptions	Successful Logout
Pre-Conditions	<ol style="list-style-type: none"> 1. User is logged into the application with a valid session. 2. User is on one of the pages within the website.
Test Steps	<ol style="list-style-type: none"> 1. Click the logout option top right corner
Expected Results	<ol style="list-style-type: none"> 1. The application processes the logout request. 2. The user's session token is deleted. 3. The user is redirected to the application's landing page, indicating they are no longer logged in.
Priority	High
Pass/fail	<p>Pass: If the user has been successfully logged out, the session token has been successfully deleted and the user has been redirected to the landing page.</p> <p>Fail: If there are any errors with deleting the session token, or the user is not logged out and redirected to the landing page. (Navbar Mustnt</p>

ID	TC-25
Item To Test	Logout
Description	Session Termination
Pre-Conditions	<ol style="list-style-type: none"> 1. User is logged into the application and has an active session. 2. User then logs out successfully.
Test Steps	<ol style="list-style-type: none"> 1. After logging out, attempt to navigate back to a page that requires authentication without logging in again.
Expected Results	<ol style="list-style-type: none"> 1. The application does not grant access to the authenticated page. 2. The user is redirected to the login page
Priority	High
Pass/fail	<p>Pass: After logging out, the user must be required to log in again to access any of the pages. If the user logs out, and then tries to go back to one of the pages, the content of the previously logged in page mustn't show.</p> <p>Fail: If after logging out, and navigating back to one of the previous pages, the user is still logged in.</p>

Password Reset

ID	TC-26
-----------	--------------

Item To Test	Password Reset
Description	Request Password Reset Link
Pre-Conditions	<ol style="list-style-type: none"> 1. The user has access to the email account used to register with the application. 2. The user has navigated to the password reset, or forgot password page.
Test Steps	<ol style="list-style-type: none"> 1. Enter the email address associated with the account. 2. Submit the password reset request.
Expected Results	<ol style="list-style-type: none"> 1. The application sends a password reset link to the provided email address. 2. The user receives an email with a link to reset the password. 3. A confirmation message is displayed, indicating that the password reset link has been sent.
Priority	High
Pass/fail	<p>Pass: The application successfully sent a password reset link to the provided email address, and the user has successfully received the email in their inbox. Also a confirmation pop-up message must display, stating that the password reset link has been sent.</p> <p>Fail: If the system has any errors sending the message, or the user can't view the email sent. Also if the pop-up message notifying the user that the link has been sent, does not display, or is a different message, fail.</p>

ID	TC-27
Item To Test	Password Reset
Description	Reset Password With Valid Link
Pre-Conditions	<ol style="list-style-type: none"> 1. The user has received a password reset link via email.' 2. The user has access to the email associated with their account. 3. The link is not expired and is valid for use.
Test Steps	<ol style="list-style-type: none"> 1. Click on the password reset link received in the email. 2. Enter a new password in the provided field on the password reset page. 3. Submit the new password.
Expected Results	<ol style="list-style-type: none"> 1. The password is successfully updated. 2. A success message is displayed, confirming the password has been reset. 3. After a short delay, the user is redirected to the login page.
Priority	High
Pass/fail	<p>Pass: The password is successfully updated in the database, the confirmation message is displayed, and the user is automatically redirected to the login page.</p> <p>Fail: If there are any errors updating the password in the database, no pop up message is displayed, or if the user is not eventually redirected to the login</p>

	page.
--	-------

Recipe Creation and Management

ID	TC-28
Item To Test	Recipe Management
Item To Test	Add Video Instruction
Pre-Conditions	<ol style="list-style-type: none"> 1. User is logged into their account. 2. User is on the Create New Recipe page or the View All Recipe recipe details editing page.
Test Steps	<ol style="list-style-type: none"> 1. Fill in the recipe details such as title, ingredients, and instructions. 2. Enter a valid YouTube video URL in the "YouTube Video URL" field. 3. Submit the recipe.
Expected Results	<ol style="list-style-type: none"> 1. The YouTube video URL is successfully saved with the recipe. 2. When viewing the recipe, the YouTube video is accessible or embedded for viewers.
Priority	Medium
Pass/fail	<p>Pass: If the youtube video is successfully saved with the recipe, and when viewing the recipe after saving, the video successfully displays.</p> <p>Fail: If there are any errors saving the video, or viewing it after it has been saved to the recipe, it will fail.</p>

Dashboard and User Interactions

ID	TC-29
Item To Test	User Dashboard
Description	View User Dashboard
Pre-Conditions	<ol style="list-style-type: none"> 1. The user is logged in to their account. 2. The user is already on, or navigates to the dashboard page.
Test Steps	<ol style="list-style-type: none"> 1. Verify that the dashboard page loads without any errors. 2. Check if the saved recipes, account management and recommendations sections are visible. 3. Ensure the user's first name, last name, and email are displayed correctly under account management.
Expected Results	<ol style="list-style-type: none"> 1. The dashboard page successfully displays content including saved recipes, recommendations, and notifications. 2. The user's personal information is accurately displayed.
Priority	High
Pass/fail	<p>Pass: If all the user, recipe and content information are visible and displayed correctly on the user dashboard.</p> <p>Fail: If there are any errors displaying the correct information, or if the information is not clearly visible to the user.</p>

Search and Explore

ID	TC-30
Item To Test	Search/Tag filter
Description	Advanced Recipe Search
Pre-Conditions	<ol style="list-style-type: none"> 1. The user is on the search or explore page where recipes can be filtered. 2. Multiple filters are available for use, such as tags and ingredients.
Test Steps	<ol style="list-style-type: none"> 1. Apply one or more filters, such as selecting specific tags or ingredients, to narrow down the search results. 2. Submit the search query. 3. Observe and evaluate the returned search results based on the applied filters.
Expected	<ol style="list-style-type: none"> 1. The search results successfully reflect the criteria specified by the filters.

Results	<ol style="list-style-type: none"> 2. Recipes that do not meet the criteria are not displayed in the search results. 3. The user can modify or remove filters to adjust the search results dynamically.
Priority	High
Pass/fail	<p>Pass: If the search results display successfully showing the recipes that match the criteria.</p> <p>Fail: If the search result displays as normal, showing all recipes, instead of showing the related recipes corresponding to the tag filter it will fail.</p>

Food Lists and Collections

ID	TC-31
Item To Test	Foodlists
Description	Create New Foodlist
Pre-Conditions	<ol style="list-style-type: none"> 1. User is logged into their account. 2. User navigates to the food list creation form page.
Test Steps	<ol style="list-style-type: none"> 1. Enter a unique title for the food list in the "Foodlist title" field. 2. Optionally, enter a description for the food list in the provided textarea. 3. Select one or more recipes to include in the food list by checking their corresponding checkboxes. 4. Submit the form by clicking the "Create FoodList" button.
Expected Results	<ol style="list-style-type: none"> 1. A new food list is created with the provided name, description, and selected recipes. 2. The user is redirected to a page showing all their food lists, including the newly created list. 3. The new food list is visible and contains all the specified details and recipes.
Priority	High
Pass/fail	<p>Pass: If the new food list has been successfully created with the correct information that was inputted by the user, saved in the database and then they are redirected to their food list page, showing the new list with the updated information.</p> <p>Fail: If there are any errors not allowing the new food list to be created, or if any of</p>

	the information is not being saved into the database correctly, consequently not allowing the information to display properly.
--	--

ID	TC-32
Item To Test	Foodlists
Description	Edit Foodlist
Pre-Conditions	<ol style="list-style-type: none"> 1. User is logged into their account and has previously created at least one food list. 2. User navigates to the edit page for an existing food list.
Test Steps	<ol style="list-style-type: none"> 1. Modify the name and/or description of the food list. 2. Add additional recipes to the list by checking their checkboxes, or remove existing recipes by unchecking their checkboxes. 3. Submit the changes by clicking the "Update FoodList" button.
Expected Results	<ol style="list-style-type: none"> 1. The food list is updated with the new name, description, and recipe selections. 2. The user is redirected to a confirmation or summary page showing the updated details of the food list. 3. The changes are persistent and visible when viewing the food list details.
Priority	High
Pass/fail	<p>Pass: If the food list is successfully updated in the database, and the user is redirected to the food list page, showing the updated list with the newly updated information</p> <p>Fail: If there are any errors halting the editing process, or if the information is not successfully updated in the database, consequently not allowing the newly edited information to properly display under the food list.</p>

ID	TC-33
Item To Test	Food List
Description	Delete Food List
Pre-Conditions	<ol style="list-style-type: none"> 1. User is logged into their account and has at least one food list created. 2. User navigates to the page showing details of the food list they wish to delete.
Test Steps	<ol style="list-style-type: none"> 1. Click the "Delete" button associated with the food list to initiate deletion. 2. Confirm the deletion in the confirmation prompt to proceed.
Expected	<ol style="list-style-type: none"> 1. The food list is permanently deleted from the user's account.

Results	<ol style="list-style-type: none"> The user is redirected to the main food lists page, and the deleted list is no longer visible. The user receives feedback confirming the successful deletion of the food list.
Priority	High
Pass/fail	<p>Pass: If the food list has been permanently deleted from the users saved food lists and the database, the deleted list is no longer visible or available and the user has received feedback stating that their food list has successfully been deleted.</p> <p>Fail: If there are any errors halting the food deletion process, if the food list hasn't been deleted from the database, or if it is still visible to the user after they have deleted the food list.</p>

Delete User Profile

ID	TC-34
Item To Test	Delete User Profile
Description	Successfully Delete User Profile
Pre-Conditions	<ol style="list-style-type: none"> The user is already logged in to an existing verified account. The user is on the account management page
Test Steps	<ol style="list-style-type: none"> User clicks on the delete profile button. User confirms prompt to delete profile.
Expected Results	<ol style="list-style-type: none"> After the user has confirmed the prompt to delete their profile, the account is successfully deleted. All information pertaining to the account is deleted from the database. The session token is deleted. The user is directed to the landing page.
Priority	High
Pass/fail	<p>Pass: If after confirming the prompt to delete the user profile, the profile has successfully been deleted from the database, and the user is automatically logged out, has their session token deleted and redirected to the landing page.</p> <p>Fail: If there is no confirmation message that pops up after clicking delete, and if the user account isn't successfully deleted from the database or successfully logged out after confirming the deletion. Also the user must be redirected to the landing page.</p>

Integration Test Cases

ID	ITC-1
Item To Test	Create New Recipe
Description	Testing how different components integrate the process of a new recipe creation
Pre-Conditions	<ol style="list-style-type: none"> 1. User has an account. 2. User is logged in and has a valid token in the localStorage. 3. User is in the Create New Recipe Page
Test Steps	<ol style="list-style-type: none"> 1. Missing Title <ol style="list-style-type: none"> 1.1. Leave the title field empty. 1.2. Add at least one ingredient to the ingredients list. 1.3. Add at least one step to the instructions list. 1.4. Fill in the other fields with valid data, including at least one ingredient and one instruction, and a description of any length. 1.5. Click the 'Save Recipe' button. 2. Missing Description <ol style="list-style-type: none"> 2.1. Fill in title field with a valid recipe name 2.2. Add at least 1 ingredient and 1 instruction for their respective input fields 2.3. Now leave the description field empty 2.4. Click the 'Save Recipe' button 3. Successful Creation <ol style="list-style-type: none"> 3.1. Fill in the title field with a valid recipe name. 3.2. Fill in all the other fields with valid data, add tags, and provide a valid YouTube video URL. 3.3. Click the 'Save Recipe' button.
Expected Results	<ol style="list-style-type: none"> 1. After the first save (step 1.5), the system will prevent submission and introduce a pop up to notify the user that there is an error in saving, prompting them to fill out the title. 2. After the second save(step 2.4), the system will prevent submission and introduce a pop up to notify the user that there is an error in saving, prompting them to fill out the title. 3. After the third save (step 3.3), a POST request is made to the API with the recipe data. <ol style="list-style-type: none"> a. The database recipes model will create a new recipe id and update it with the new information: title, ingredients, instructions, description, videoURL, tags, allergens 4. The server responds with a pop-up message displaying 'Recipe saved successfully' indicating that the database now contains the new recipe data.

	5. Now, when the user views their View All Recipe page, they will see their newly created recipe
Priority	Medium
Pass/fail	<p>Pass: If the system correctly prevents submission and displays error pop-ups when the title and description fields are left empty in their respective scenarios, guiding the user to fill in the missing information. Also, if after all required fields are correctly filled, the system successfully submits the recipe data, creates a new recipe in the database, and displays a success message to the user. Now, the newly created recipe should be visible on the "View All Recipe" page as expected.</p> <p>Fail: If the system allows submission with mandatory fields (title or description) empty. If the system fails to display the appropriate error pop-ups when mandatory fields are missing. If, upon correctly filling all required fields and submitting, the recipe data is not saved in the database, no success message is displayed, or the new recipe is not visible on the "View All Recipe" page.</p>

ID	ITC-2
Item To Test	Recipe Details
Description	Testing how different components integrate the process of recipe editing, deletion attempt, and deletion cancellation processes within the application
Pre-Conditions	<ol style="list-style-type: none"> 1. User has an account. 2. User is logged in and has a valid token in the localStorage. 3. User has at least 1 recipe saved from Create New Recipe or from the Explore New Creations page. 4. User is on the View All Recipes page and has clicked on the 'View Recipe' button on a recipe card to access the 'recipe details' 5. User has clicked on the edit button within the top right portion of 'recipe details' to access 'editing mode'
Test Steps	<ol style="list-style-type: none"> 1. Edit Recipe: <ol style="list-style-type: none"> 1.1. After clicking on the edit button in the recipe viewing page the user is now in the recipe editing page. 1.2. Modify several fields in the recipe, including the title, ingredients, and instructions, description, tags, allergen or, YouTube video URL. 1.3. Submit the changes by clicking the 'Save Changes' button at the top of the recipe editing page to the right of the title. 1.4. The user will then be brought back to the viewing page of the recipe. 1.5. Verify that the changes are reflected in the recipe's details. 2. Cancel Delete Recipe: <ol style="list-style-type: none"> 2.1. With the edited recipe still selected, initiate the deletion process by clicking the 'Delete' button at the top of the editing page, to the right of the recipe input field.

	<p>2.2. At the deletion confirmation prompt, choose 'Cancel' to abort the deletion process.</p> <p>2.3. Verify that the recipe remains intact and accessible within the user's account.</p> <p>3. Successfully Delete Recipe:</p> <p>3.1. Repeat the deletion attempt for the same recipe by clicking the 'Delete' button again.</p> <p>3.2. This time, confirm the deletion at the prompt by choosing 'Yes, Delete'.</p> <p>3.3. Verify that the recipe is no longer listed in the user's account and that attempting to access it directly (if possible) results in an appropriate error or notification.</p>
Expected Results	<p>1. Once completing step 1.5 , the recipe editing process should allow changes to be made and saved without errors, with all modifications accurately reflected in the recipe details.</p> <p>2. Once completing step 2.3 , the cancellation of the recipe deletion should keep the recipe available and unchanged in the user's account.</p> <p>3. Once confirming the recipe deletion, step 3.3 , the confirmed deletion request should permanently remove the recipe from the user's account, with appropriate confirmation feedback provided to the user.</p>
Priority	Medium
Pass/fail	<p>Pass:</p> <ol style="list-style-type: none"> 1. If the application allows for the seamless editing of a recipe, accurately displays the edited details, and maintains the integrity of the recipe data throughout the test. 2. If the application correctly handles the cancellation of a recipe deletion, leaving the recipe unchanged and accessible to the user. 3. If the application successfully deletes the recipe upon confirmation, accurately removing it from the user's visible recipe list and ensuring it is not accessible or recoverable through the normal user interface. <p>Fail: If any step in the process fails to execute as described, including but not limited to, errors in saving edits, failure to cancel deletion properly, or inability to permanently delete the recipe and remove it from the user's account.</p>

ID	ITC-3
Item To Test	Recipe Saving & Sharing

Description	Testing how different components integrate the process between the recipe sharing functionality from one user's account and the recipe saving functionality into another user's account, ensuring the integrity of the features and the integrity of the shared data.
Pre-Conditions	<ol style="list-style-type: none"> 1. At least two user accounts exist within the application: User A (the sharer) and User B (the saver). 2. User A is logged in, has a valid session, and has at least one recipe that can be shared. 3. User B is logged in on a different valid session/device, ready to save the shared recipe.
Test Steps	<ol style="list-style-type: none"> 1. Share a Recipe (User A): <ol style="list-style-type: none"> 1.1. Navigate to the "View All Recipes" page. 1.2. Select a recipe to share and click on the "Share" button on the bottom of the selected recipe card. 1.3. Confirm the action if required. 1.4. Verify that a success notification is displayed, confirming the recipe has been shared. And check the Explore New Creations page to verify that the shared recipe has been shared. 2. Save a Shared Recipe (User B): <ol style="list-style-type: none"> 2.1. Navigate to the "Explore New Creations" page where shared recipes are available. 2.2. Locate the recipe shared by User A. 2.3. Click on the View Recipe button to view the details of the recipe. 2.4. Navigate to the bottom of the recipe details and click on the "Save Recipe" button to add it to User B's saved recipes list. 2.5. Verify that a success notification is displayed, confirming the recipe has been saved. And check the View All Recipes page to verify that the shared recipe has been saved 3. Verify Saved Recipe (User B): <ol style="list-style-type: none"> 3.1. Navigate to the "View All Recipes" page within User B's account. 3.2. Confirm that the recently saved recipe is present and accurately reflects the details shared by User A.
Expected Results	<ol style="list-style-type: none"> 1. User A successfully shares a recipe, and the application confirms this action with a success notification. 2. The newly shared recipe will now appear in the Explore New Creations page. 3. User B successfully saves the shared recipe into their account, confirmed by a success notification. 4. The saved recipe appears correctly in User B's "View All Recipes" list with all details intact and matching what User A shared.
Priority	Medium
Pass/fail	Pass:

	<ol style="list-style-type: none"> 1. If the recipe sharing and saving process operates flawlessly, with User B able to save a recipe shared by User A and the saved recipe appearing accurately in User B's recipe list. 2. The details of the shared recipe (e.g., title, ingredients, instructions) must match between User A's sharing and User B's saved list without any loss of information or fidelity. <p>Fail:</p> <ol style="list-style-type: none"> 1. If User A cannot share a recipe or if User B cannot find or save the shared recipe. 2. If the saved recipe does not appear in User B's list or if there are discrepancies in the recipe details as compared to what User A shared. 3. If at any point the application fails to display success notifications or incorrectly displays error messages.
--	--

Performance Test Case

ID	PTC-1
Item To Test	Load Testing for Recipe Exploration Performance
Description	Evaluate the performance of the "View and Explore Recipes" feature under different degrees of user load.
Pre-Conditions	<ol style="list-style-type: none"> 1. The application server is operational. 2. The database contains over 10 saved recipes, to mimic a real-world scenario. 3. The tester has access to the performance testing tool. (Apache JMeter)
Test Steps	<ol style="list-style-type: none"> 1. Configure the tool to simulate multiple users, starting with 50 users and scale up to 100 users in increments) accessing the "View and Explore Recipes" feature simultaneously. 2. Run the test for each increment of simulated users, with each virtual user performing the following actions: 3. Navigate to the "View and Explore Recipes" page. 4. Perform a series of recipe explorations using different filters and search criteria. 5. View individual recipe details. 6. Monitor and record the system's performance, focusing on response times, error rates, and system resource utilization (CPU, memory, network).

	7. Reset any changes made to the testing environment to its original state.
Expected Results	<ul style="list-style-type: none"> • The application should be able to handle the simulated user load without significant performance degradation. • Response times for loading the "View and Explore Recipes" page and performing searches should not exceed 2 seconds for up to 100 simultaneous users. • Error rates should remain below 1% throughout the test.
Priority	High
Pass/fail	<p>Pass: The application meets or exceeds all expected performance outcomes, with acceptable response times and low error rates across all user load levels tested.</p> <p>Fail: The application fails to meet the expected outcomes, with response times exceeding 2 seconds or error rates above 1% at any tested user load level.</p>

Security Test Cases

ID	SecurityTC-1
Item to Test	User Login
Description	Logging in using an unverified Email
Pre-Conditions	<ol style="list-style-type: none"> 1. Use an email not registered in the system. 2. Be on the login page.
Test Steps	<ol style="list-style-type: none"> 1. Enter an email that has not already been registered or verified into the email field. (e.g "hello123@gmail.com") 2. Enter a password which has at least 8 characters containing at least: 1 uppercase letter, 1 lowercase letter, 1 number and 1 symbol. (e.g Hello!123) 3. Click the 'Login' button.
Expected Results	<ol style="list-style-type: none"> 1. Login fails. 2. An error message indicates the email is not recognized. 3. User remains on the login page.
Priority	Medium
Pass/fail	Pass: If the login process is halted, and an error message pops up stating that the email is not recognized by the system, and the user is still on the login page.

	Fail: If there are any deviations from the passing criteria, including the login going through, or no error message pops up.
--	--

ID	SecurityTC-2
Item to Test	User Login
Description	Logging in using Incorrect Password
Pre-Conditions	<ol style="list-style-type: none"> 1. Use a valid email registered in the system. 2. Be on the login page.
Test Steps	<ol style="list-style-type: none"> 1. Enter an existing and verified email into the email field. 2. Enter an incorrect password (e.g “Herbert”)in the password field 3. Click the 'Login' button.
Expected Results	<ol style="list-style-type: none"> 1. Login fails. 2. An error message indicates the password entered is incorrect. 3. User remains on the login page with an option to reset the password or try again.
Priority	High
Pass/fail	<p>Pass: If the login process is halted, and an error message pops up stating that the password is not recognized by the system, and the user is still on the login page.</p> <p>Fail: If there are any deviations from the passing criteria, including the login going through, or no error message pops up.</p>

ID	SecurityTC-3
Item To Test	Password Reset
Description	Reset Password With Expired Link
Pre-Conditions	<ol style="list-style-type: none"> 1. The token link sent to the user for verification via email has expired. 2. The email still exists in the user’s inbox. 3. The user has access to the email associated with their account.
Test Steps	<ol style="list-style-type: none"> 1. Navigate to the email sent by “wastetotaste222@gmail.com”. 2. Click on the expired password reset link.
Expected	<ol style="list-style-type: none"> 1. The link directs the user to a page indicating that the reset link is not valid or

ID	SecurityTC-3
Item To Test	Password Reset
Description	Reset Password With Expired Link
Pre-Conditions	<ol style="list-style-type: none"> 1. The token link sent to the user for verification via email has expired. 2. The email still exists in the user's inbox. 3. The user has access to the email associated with their account.
Results	<ol style="list-style-type: none"> 1. has expired. 2. The user is not allowed to reset the password using the expired link. 3. An error message or a "404 Not Found" page is shown instead of the password reset form.
Priority	Medium
Pass/fail	<p>Pass: If the link redirect the user to a page indicating that the link is not valid ("Error 404 Not Found), and the reset password process is halted, not allowing the user to reset /their password or go any further.</p> <p>Fail: If the expired link still works for the user, allowing them to reset their password 1 hour after they requested the link.</p>

System Test Case

ID	STC-1
Item To Test	System Test
Description	End-To-End Application functionality
Pre-Conditions	<ol style="list-style-type: none"> 1. The application server is operational. 2. The tester has a stable internet connection. 3. The tester starts without an existing account.

Test Steps	<ol style="list-style-type: none"> 1. User Onboarding: <ol style="list-style-type: none"> 1.1. TC-1 (Successful Registration): Access the registration page, enter valid and unique user details, and submit. Verify the success message and email receipt. 1.2. TC-6 (Successful Login): Log in with the newly created account details. Verify redirection to the user's dashboard. 1.3. TC-10 (Session Persistence): Navigate across different sections of the application and perform a browser refresh to ensure the session persists. 2. Profile Management: <ol style="list-style-type: none"> 2.1. TC-11 (Successful Profile Update): Go to profile settings, update details, and save. Confirm updates are reflected. 2.2. TC-35 (Request Password Reset Link) & TC-36 (Reset Password With Valid Link): Request a password reset from the login page, use the link received via email to reset the password, and log in with the new password. 3. Engagement with Features: <ol style="list-style-type: none"> 3.1. TC-13 (Successful Creation): Navigate to 'Create New Recipe,' fill in all required fields, and save. Verify the recipe is listed under 'My Recipes.' 3.2. TC-18 (Successful Edit): Edit the created recipe by changing several fields, including adding a new ingredient, and save. Verify edits are updated. 3.3. TC-24 (Successful Deletion): Delete the created recipe and confirm it's removed from 'My Recipes.' 3.4. TC-31 (View All Recipes: Share Recipe) & TC-32 (Explore New Creations: Save Recipe): Share a recipe and then, using another account or user view, save the shared recipe. Verify it appears in the 'Saved Recipes' section. 4. Advanced Functionalities: <ol style="list-style-type: none"> 4.1. TC-41 (Advanced Recipe Search): Use the search functionality to locate a recipe based on specific criteria. Confirm the correct results are displayed. 4.2. TC-44 (Create Food List): Create a new Food List, add several recipes, and save. Confirm the list is accessible and correct. 4.3. TC-40 (View Dashboard): Verify that the dashboard accurately reflects recent activities, including newly created recipes and food lists. 5. Logout and Session Termination: <ol style="list-style-type: none"> 5.1. TC-33 (Successful Logout): Log out of the application. Attempt to access the dashboard again without logging in to confirm the session has been terminated.
Expected Results	<ol style="list-style-type: none"> 1. Each action taken from registration to logout follows the web application's designed user flow without errors. 2. User profile updates, recipe management, and advanced functionalities perform as expected, reflecting real-world user interaction. 3. The Database is updated accordingly upon any changes made to the user profile or recipe management. 4. The application maintains session integrity past login and securely terminates it upon logout. 5. All the testing steps have been executed according to the specification and each test case has met the requirements of its predicted outcome.
Priority	High

Pass/fail	<p>Pass if each step, from the beginning to the end, has no deviation from its expected outcome and each functionality performs as expected without any errors.</p> <p>Fail if there are any deviations from the expected results, there are bugs, errors or any other factors which are interrupting any part of the system test.</p>
-----------	--