

Test Case No.	Test Case Description	Test Steps	Expected Results
1	Loading of website (Mobile / Tablet / Desktop)	1. Go to the URL: https://tgc-coffeetalk.netlify.app/	1a. Website should load without crashing 1b. Recipe cards in the Home page should be rendered properly after loading animation disappears (Note: May need to refresh page a few times for the Express server hosted on Heroku server to become active)
2A	Home > Recipe (via What's new / What's popular section)	Pre-requisite(s): None 1. On the Home page, click on the 'More Info' button of any Recipe cards in either 'What's new' or 'What's popular' section	1. The website should be redirected to the selected Recipe page
2B	Home > Bookmark recipe	Pre-requisite(s): None 1. On the Home page, click on the 'Favorite' button (indicated by a heart and plus icon) of any Recipe cards in either 'What's new' or 'What's popular' section	1. An 'Add to Favorites' modal should pop up
2C	Home > Bookmark recipe > Success	Pre-requisite(s): Test case 2B 1. Enter a valid email (Eg. test@gmail.com) and click on 'Add' button	1. A success message should appear in the modal
2D	Home > Bookmark recipe > Error validation	Pre-requisite(s): Test case 2B and 2C 1a. With the email input field empty, click on the 'Add' button 1b. Alternatively, enter an invalid email (Eg. test) and click on the 'Add' button 2. Enter the valid email used for Test case 2C and click on the 'Add' button (favoriting a recipe that has been favorited already)	1. An error message should appear in the modal
3A	Recipes	Pre-requisite(s): Not in 'Recipes' page 1. Click on 'Recipes' in the navbar	1. The website should be redirected to the Recipes page
3B	Recipes > Search All	Pre-requisite(s): Test case 3A 1a. On mobile / tablet, click on the 'Advanced Search/Filter' button (indicated by a filter icon) 1b. Without entering any search / filter fields, click on the 'Search' button	1a. For mobile / tablet, an offcanvas with the advanced search / filter form should appear upon clicking the 'Advanced Search/Filter' button 1b. For mobile / tablet, the offcanvas should disappear after clicking on the 'Search' button 1c. The results section of the page should show a loading animation before displaying search results
3C	Recipes > Search	Pre-requisite(s): Test case 3A 1a. On mobile / tablet, click on the 'Advanced Search/Filter' button (indicated by a filter icon) 1b. Enter any search keywords for recipe name and click on the 'Search' button	1a. For mobile / tablet, an offcanvas with the advanced search / filter form should appear upon clicking the 'Advanced Search/Filter' button 1b. For mobile / tablet, the offcanvas should disappear after clicking on the 'Search' button 1c. The results section of the page should show a loading animation before displaying search results
3D	Recipes > Filter	Pre-requisite(s): Test case 3A 1a. On mobile / tablet, click on the 'Advanced Search/Filter' button (indicated by a filter icon) 1b. Fill in the filter option(s) and click on the 'Search' button	1a. For mobile / tablet, an offcanvas with the advanced search / filter form should appear upon clicking the 'Advanced Search/Filter' button 1b. For mobile / tablet, the offcanvas should disappear after clicking on the 'Search' button 1c. The results section of the page should show a loading animation before displaying search results

3E	Recipes > Sort	<p>Pre-requisite(s): Test case 3A</p> <p>1a. On mobile / tablet, click on the 'Advanced Search/Filter' button (indicated by a filter icon)</p> <p>1b. Select a sort option and click on the 'Search' button</p>	<p>1a. For mobile / tablet, an offcanvas with the advanced search / filter form should appear upon clicking the 'Advanced Search/Filter' button</p> <p>1b. For mobile / tablet, the offcanvas should disappear after clicking on the 'Search' button</p> <p>1c. The results section of the page should show a loading animation before displaying sorted search results (in descending order)</p>
3F	Recipes > Clear	<p>Pre-requisite(s): Test case 3A</p> <p>1a. On mobile / tablet, click on the 'Advanced Search/Filter' button (indicated by a filter icon)</p> <p>1b. Fill in the search / filter form and click on the 'Clear' button</p>	<p>1a. For mobile / tablet, an offcanvas with the advanced search / filter form should appear upon clicking the 'Advanced Search/Filter' button</p> <p>1b. The search / filter form should reset to default on clicking the 'Clear' button</p>
3G	Recipes > Bookmark recipe	<p>Pre-requisite(s): Test case 3A</p> <p>1. On the Recipes page, click on the 'Favorite' button (indicated by a heart and plus icon) of any Recipe cards</p>	<p>1. An 'Add to Favorites' modal should pop up</p>
3H	Recipes > Bookmark recipe > Success	<p>Pre-requisite(s): Test case 3A and 3G</p> <p>1. Enter a valid email (Eg. test@gmail.com) and click on 'Add' button</p>	<p>1. A success message should appear in the modal</p>
3I	Recipes > Bookmark recipe > Error validation	<p>Pre-requisite(s): Test case 3A, 3G and 3H</p> <p>1a. With the email input field empty, click on 'Add' button</p> <p>1b. Alternatively, enter an invalid email (Eg. test) and click on 'Add' button</p> <p>2. Enter the valid email used for Test case 3G and click on 'Add' button (favoriting a recipe that has been favorited already)</p>	<p>1. An error message should appear in the modal</p>
3J	Recipes > Recipe	<p>Pre-requisite(s): Test case 3A</p> <p>1. On the Recipes page, click on the 'More Info' button of any Recipe cards</p>	<p>1. The website should be redirected to the selected Recipe page</p>
4A	Create	<p>Pre-requisite(s): Not in 'Create' page</p> <p>1. Click on 'Create' in the navbar</p>	<p>1. The website should be redirected to the Create page</p>
4B	Create > Error validation	<p>Pre-requisite(s): Test case 4A</p> <p>1a. Without entering any of the form input fields, click on the 'Create recipe' button</p> <p>1b. Alternatively, enter any invalid inputs for the required form fields</p>	<p>1. Error messages should appear for all required input fields</p>
4C	Create > Success	<p>Pre-requisite(s): Test case 4A</p> <p>1. Fill in all the required form fields and click on the 'Create recipe' button</p>	<p>1a. A modal should appear with a success message</p> <p>1b. On clicking away the modal, the website should redirect to the Recipes page</p> <p>1c. The newly added recipe should be in the results section</p>
5A	Favorites	<p>Pre-requisite(s): Not in 'Favorites' page</p> <p>1. Click on 'Favorites' in the navbar</p>	<p>1. The website should be redirected to the Favorites page</p>
5B	Favorites > Error validation	<p>Pre-requisite(s): Test case 5A</p> <p>1a. With the email input field empty, click on the 'Retrieve' button</p> <p>1b. Alternatively, enter an invalid email (Eg. test) and click on the 'Retrieve' button</p>	<p>1. An error message should appear below the email input field</p>
5C	Favorites > Success	<p>Pre-requisite(s): Test case 5A</p> <p>1. Enter a valid email (Eg. test@gmail.com) and click on the 'Retrieve' button</p>	<p>1. The website should render the favorited recipes in another page</p>

5D	Favorites > Recipe	Pre-requisite(s): Test case 5C 1. On the Favorites page, click on the 'More Info' button of any Recipe cards	1. The website should be redirected to the selected Recipe page
5E	Favorites > Remove bookmarked recipe	Pre-requisite(s): Test case 5C 1a. On the Favorites page, click on the 'Remove favorites' button (indicated by a heart and minus icon) of any Recipe cards 1b. Click on the 'Remove' button	1a. A modal asking for confirmation should appear 1b. The Favorites page should update to reflect the change
6A	Recipe > Bookmark recipe	Pre-requisite(s): Test case 2A or 3J, and recipe must not be favorited before 1. Click on the 'Favorite' button (indicated by a heart and plus icon) in the Recipe page	1. An 'Add to Favorites' modal should pop up
6B	Recipe > Bookmark recipe > Success	Pre-requisite(s): Test case 6A 1. Enter a valid email (Eg. test@gmail.com) and click on 'Add' button	1. A success message should appear in the modal
6C	Recipe > Bookmark recipe > Error validation	Pre-requisite(s): Test case 6A 1a. With the email input field empty, click on 'Add' button 1b. Alternatively, enter an invalid email (Eg. test) and click on 'Add' button 2. Enter the valid email used for Test case 2C and click on 'Add' button (favoriting a recipe that has been favorited already)	1. An error message should appear in the modal
6D	Recipe > Edit	Pre-requisite(s): Test case 2A or 3J or 5D 1. Click on the 'Edit' button (indicated by a pencil icon)	1. A modal asking for email validation should appear
6E	Recipe > Edit > Error validation	Pre-requisite(s): Test case 6D 1. Enter any invalid email (Eg. test) or valid email that is not used to create the recipe and click on the 'Proceed' button	1. An error message should appear in the modal
6F	Recipe > Edit > Success	Pre-requisite(s): Test case 6D 1. Enter the email used to create the recipe (Eg. test@gmail.com) and click on the 'Proceed' button	1. The website should redirect to the Edit page
6G	Recipe > Delete	Pre-requisite(s): Test case 2A or 3J or 5D 1. Click on the 'Delete' button (indicated by a bin icon)	1. A modal asking for email validation should appear
6H	Recipe > Delete > Error validation	Pre-requisite(s): Test case 6G 1. Enter any invalid email (Eg. test) or valid email that is not used to create the recipe and click on the 'Confirm delete' button	1. An error message should appear in the modal
6I	Recipe > Delete > Success	Pre-requisite(s): Test case 6G 1. Enter the email used to create the recipe (Eg. test@gmail.com) and click on the 'Confirm delete' button	1. The website should redirect to the updated Recipes page
6J	Recipe > Add review > Error validation	Pre-requisite(s): Test case 2A or 3J or 5D 1. Without entering any input fields for the 'Add review' form, click on the 'Add review' button	1. Error messages should appear for all required input fields
6K	Recipe > Add review > Success	Pre-requisite(s): Test case 2A or 3J or 5D 1. Fill in the 'Add review' form and click on the 'Add review' button	1. The Recipe page should update to display the added review in the Reviews section
7A	Edit > Error validation	Pre-requisite(s): Test case 6F 1. Enter any invalid input for any required fields and click on the 'Update recipe' button	1. Error messages should appear for the fields with invalid inputs
7B	Edit > Success	Pre-requisite(s): Test case 6F 1. Fill in any valid inputs for any of the fields and click on the 'Update recipe' button	1. A modal displaying success message should pop up 2. The website should redirect to the updated Recipe page upon clicking away the modal