

# Recipe App Test Plan

Software Engineering

Team6D

UP813077, UP890112, UP891226,  
UP885000, UP885188, UP906651, UP905446

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# Introduction

The prototype system that is being tested is a recipe app that provides detailed information on how to make a certain recipe. For example, the ingredients, measurements, methods, serving size, preparation time and cooking time. This app is targeted towards users that have smaller budgets, for instance, students because they have a basic understanding of cooking.

Some of the functions of the app include:

- Saving a recipe locally on your device for users that do not have access to continuous internet.
- Increasing the font size of users that have difficulty reading.
- Submitting a rating and a review.
- Viewing the reviews for the recipe, therefore, other users can be guided into selecting a recipe by popularity or best reviews.
- Searching a recipe by keywords and ingredients.
- Categorising searches by cuisines and courses.
- Sorting the results of the search by alphabetical, preparation time or cooking time.

## Testing Strategy

### Unit Testing

Unit testing is the first level of software testing where individual units of the system are tested. It is the smallest part of testing and its purpose is to mainly focus on producing the correct output of a program. A test case will be run one at a time. If the test passes, the next test will be completed. If the test fails, necessary changes will be added to make the test case successful.

The table below is used as a template to document every unit test for each requirement. Every requirement will have a minimum of at least one test case and each requirement will likely have several test cases.

Test ID	User Req ID	Description	Expected Result	Actual Result	Pass/Fail	Screenshot ID

- **Test ID** is a unique number for each test case. The unique number relates to a particular requirement the test case is validating. For example, requirement 2 could have multiple test IDs 2.1, 2.2, 2.3 and so on.
- The **description** is a step by step instruction taken to run the test case. Thus, it is easier for any of the members to perform the tests.
- The **expected result** is the output of what should happen when the test runs.
- The **actual result** is the confirmed output of what has happened when the test runs.
- **Pass/fail** is to indicate whether a test case has been successful or not.
- **Screenshot ID** is a unique number for each test case. The screenshot unique number relates to a particular test case for cross-referencing. For example, test case 1.2 could have multiple screenshot IDs such as 1.2.1, 1.2.2 and so on.

The table below is used as a template to record every screenshot taken for each test case. Every completed test case will have a minimum of one screenshot to show evidence. It is also likely every test case has multiple screenshots to showcase a better understanding of the requirement.

Screenshot ID	Description	Screenshot

- **Screenshot ID** is a unique number ID.
- The **description** annotates the screenshots.
- The **screenshot** displays an image of the completed test case.

## Integration Testing

Integration testing is the second level of software testing where multiple units are combined to perform an integrated program and it is tested as a group.

The table below is used as a template to document every integration test.

Test ID	User Req ID	Test Case Objective	Test Case Description	Expected Outcome	Pass/Fail	Screenshot ID

- **Test case objective** is the goal of each module and what it is trying to accomplish.
- **Test case description** is a step by step process to achieve the objective.
- Other columns have been explained in unit testing.

Screenshot ID	Screenshot

- **Screenshot ID** is a unique number ID.
- The **screenshot** displays an image of the completed test case.

## Unit Test Cases

Test ID	Req ID	Description	Expected Result	Actual Result	Pass/Fail	Screenshot ID
1.1	USER REQ_1	Click the star button to save the recipe.	Star fills into colour gold.	As expected	Pass	1.1.1
1.2	USER REQ_1	Click the recipe button to view saved recipes.	Jollof Rice stored in 'Recipes'.	As expected	Pass	1.2.1
1.3	USER REQ_1	Click the save button to type the name and access the saved recipe file.	Type Jollof Rice and click ok to display the recipe.	As expected	Pass	1.3.1 1.3.2
1.4	NONF UNC_1	Consistent colour scheme	Consistent colour scheme between firecracker prawn and Jollof rice recipe	As expected	Pass	1.4.1 1.4.2
2.1	USER	Home main				

	REQ_2	menu brings the user back to the main menu.				
2.2	USER REQ_2	Search menu				
2.3	USER REQ_2	Timer menu				
2.4	USER REQ_2	Settings menu				
2.5	USER REQ_2	Turning off/on dark mode (theme) in settings.				
2.6	USER REQ_2	Increasing text sizes by clicking settings and set size to '100%'.	100% text size displayed .	As expected	Pass	2.6.1 2.6.2
2.7	USER REQ_2	Decreasing text sizes by clicking settings and set size to '75%'.	75% text size displayed.	As expected	Pass	2.7.1 2.7.2
2.8	FUNC_2	Click view reviews.	Display rating average of	As expected	Pass	2.8.1

			Jollof Rice recipe.			
3.1	USER REQ_3	Search and type 'Chicken Burritos' for a specific recipe from the search bar.	Display Chicken Burritos recipe in results.	As expected	Pass	3.1.1
3.2	USER REQ_3	Search and type 'Chicken' from the search bar.	Display Chicken Burrito recipe.	As expected	Pass	3.2.1
3.3	USER REQ_3	Search by tags from categories and select 'side'.	Display Firecracker Prawn recipe from the result.	As expected	Pass	3.3.1
3.4	USER REQ_3	Search by keyword from the search bar and type 'rice'.	Display Jollof Rice recipe from the result.	As expected	Pass	3.4.1
3.5	NON_FUNC_3	Colour blind colour scheme				
4.1	USER REQ_4	Select 'Categories' to filter options by	Display list of the drop-down menu.	As expected	Pass	4.1.1

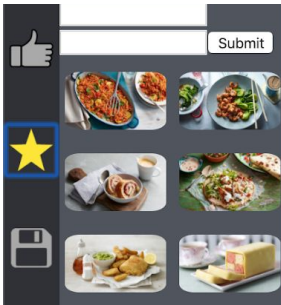
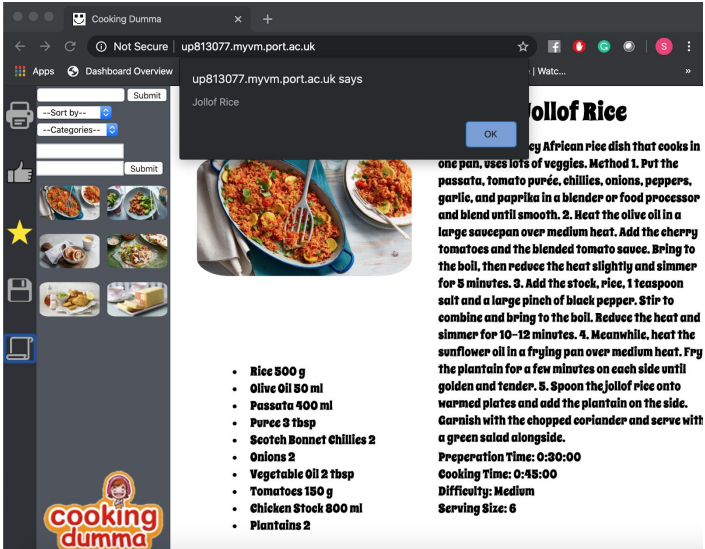


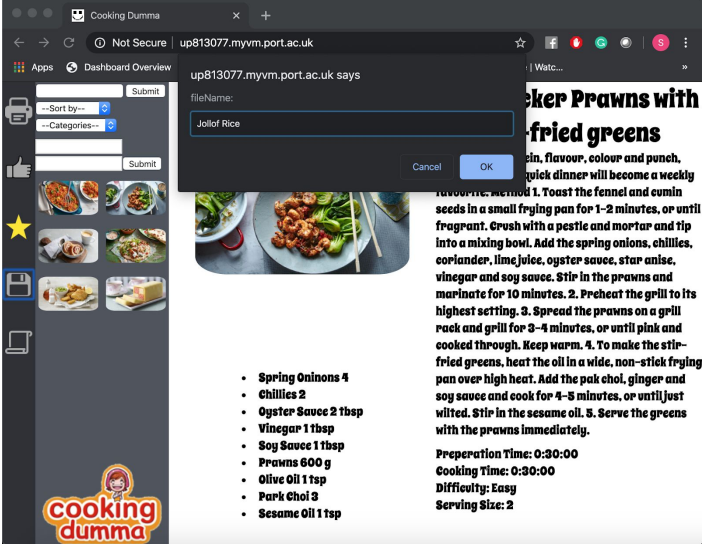
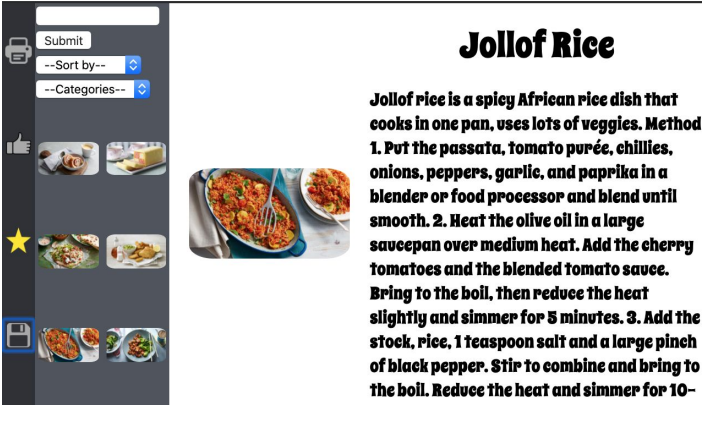

		cuisines.				
4.2	USER REQ_ 4	Filter option by 'cooking times'.	Display recipes from shortest to longest cooking times.	As expected	Pass	4.2.1
4.3	USER REQ_ 4	Filter option by ratings				
4.4	USER REQ_ 4	Filter option by servings				
4.5	USER REQ_ 4	Filter option by allergies				
4.6	NONF UNC_ 4	Readable font colour	Black text colour and white background.	As expected	Pass	4.6.1
5.1	USER REQ_ 5	Sort by newly added				
5.2	USER REQ_ 5	Sort by popularity				
5.3	USER REQ_ 5	Sort by meat				
7.1	USER REQ_	Setting timer (hh:mm:ss)				

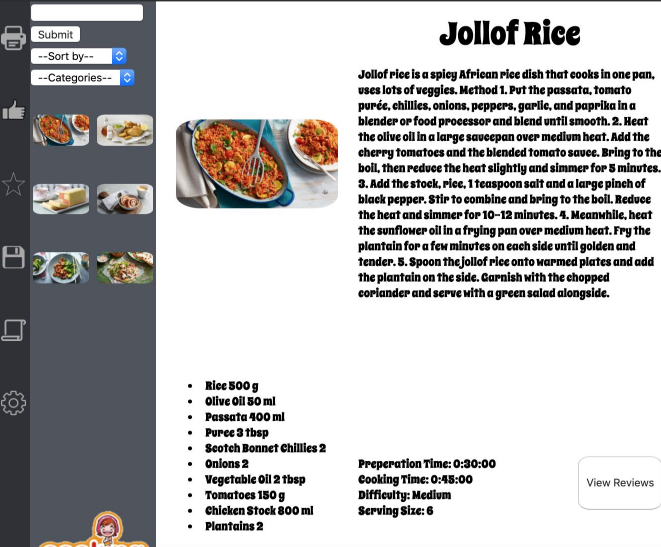
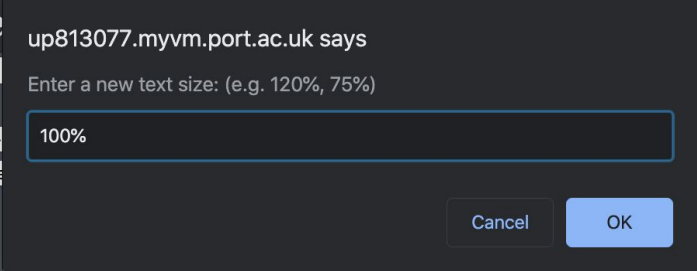
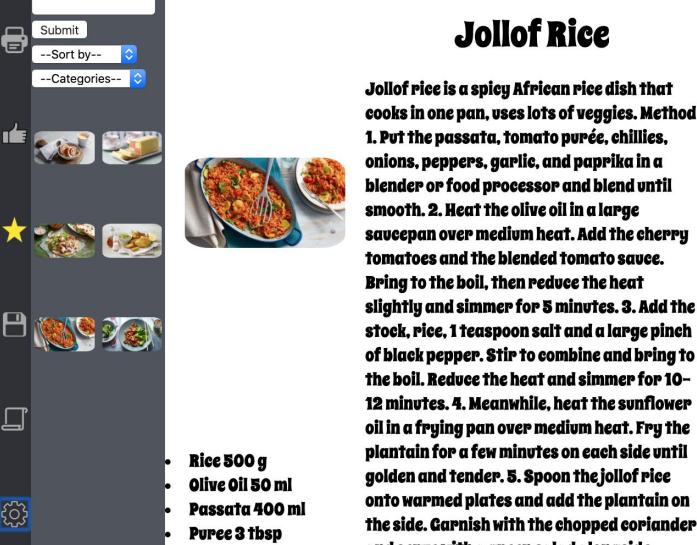
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7.2	USER REQ_ 7	Cancel set timer				
7.3	USER REQ_ 7	Starting and stopping timer				
7.4	USER REQ_ 7	When the timer ends, the default alert is played				
7.5	USER REQ_ 7	Change ringtone alert				
7.6	FUNC _7	Unique ID for each recipe	Display recipe_ID and recipe_name	As expected	Pass	7.6.1
7.7	FUNC _7	Ingredients	Display list of all the ingredients currently in the database	As Expected	Pass	7.7.1
8.1	USER REQ_ 8	Click the review button (thumbs up icon).	Display text boxes to write a review and select a rating.	As expected	Pass	8.1.1
9.1	USER REQ_	Change colour schemes				

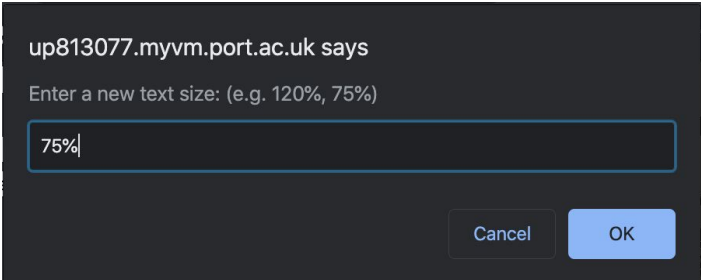
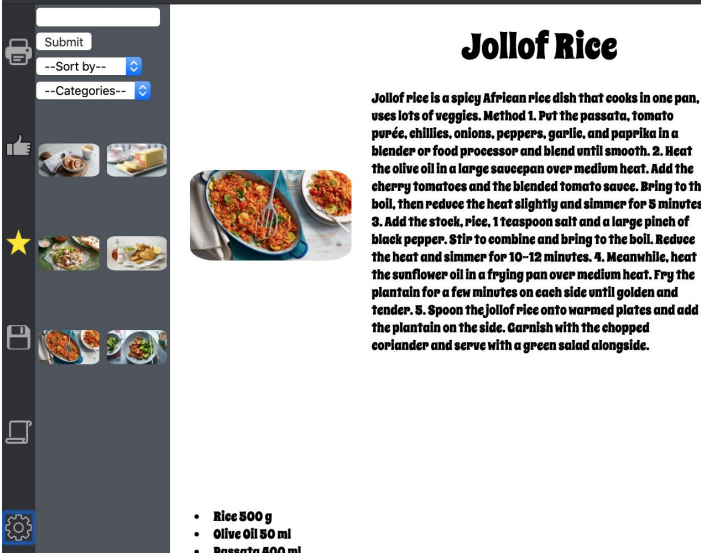
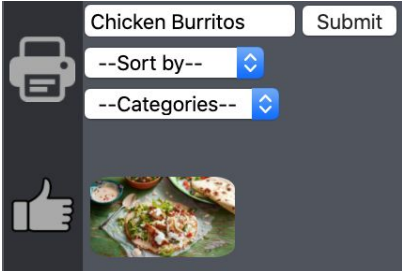
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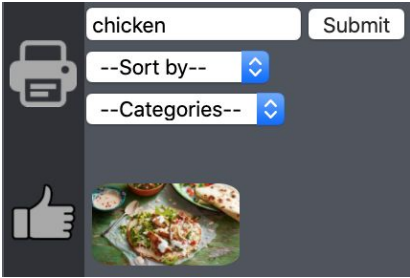
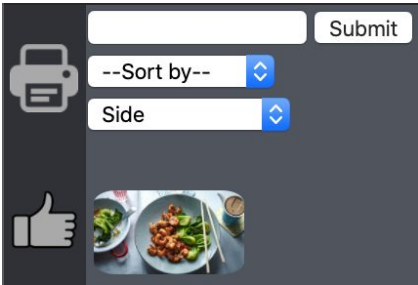
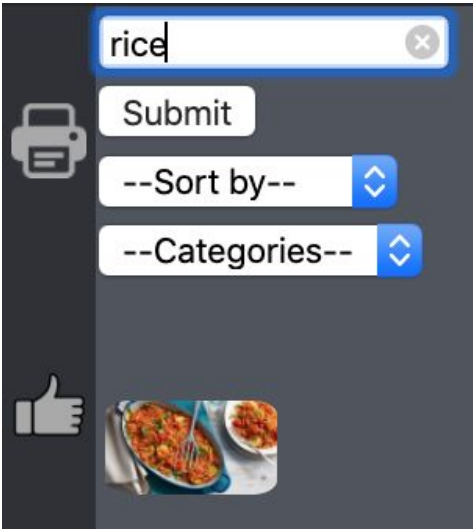
## Unit Test Cases Screenshots




Screen shot ID	Description	Screenshot
1.1.1	Selecting the star button turns the star to gold for recipe Jollof Rice to save the recipe locally.	
1.2.1	Selecting recipes button shows a list of all the recipe files saved locally such as Jollof Rice without using the internet.	

1.3.1	Selecting the save button and typing the name of the recipe file will allow the user to view the saved recipe without using the internet.	
1.3.2	After clicking 'OK' the recipe is displayed without using the internet.	
1.4.1	Consistent text colour, background colour, menu colour in firecracker prawns recipe page.	


1.4.2	Consistent text colour, background colour, menu colour in firecracker prawns recipe page.	
2.6.1	Clicked settings button and typed 100%.	
2.6.2	Clicked OK and displayed the increased text size 100%.	

2.7.1	Clicked the settings button and typed 75%.	
2.7.2	Clicked OK and displayed the decreased text size 75%.	
2.8.1	Average rating and review displayed.	<p><b>Average rating: 5.0000</b></p> <ul style="list-style-type: none"> <li><b>5 Stars – Fun recipe who doesn't love a good chicken burrito? And better when is homemade and made with lots of love</b></li> </ul>
3.1.1	Searched for 'Chicken Burritos' and the app displayed the recipe for chicken burritos.	

3.2.1	Searched for 'Chicken' and the app displayed the recipe for chicken burritos.	
3.3.1	Selected 'side' from the categories drop-down menu to display Firecracker Prawns recipe.	
3.4.1	Typed 'rice' as a keyword and clicked submit to display jollof rice recipe.	

4.1.1	Displayed list of cuisine.	
4.2.1	Selected 'cooking time' and displayed recipes from shortest to longest cooking times.	
4.6.1	All pages have the same text colour black and white background colour.	<div>  </div> <div> <h3>Chicken burritos</h3> <p>These authentic chicken burritos are the real deal. Topped with pico de gallo, chipotle crema, guacamole, sour cream and cheese, guests won't be disappointed. Method 1. To make the chicken, mix the lime juice, garlic, oil, oregano, chili, sugar and salt and pepper together in a large bowl. Add the chicken, cover and place in the fridge for at least 2 hours. 2. Meanwhile, to make the chipotle crema, mix the chipotles en adobo, sour cream and mayonnaise with a squeeze of lemon juice and a pinch of salt and set aside. 3. To make the pico de gallo, mix all the ingredients together with 1/2 teaspoon of salt in a bowl and set aside. 4. To make the guacamole, pound the avocados in a pestle and mortar with the cilantro and 1/2 teaspoon of salt. Into a lump paste. Add the avocado and break up the flesh roughly with a fork. The result should be lumpy not smooth. 5. In the lime juice, to taste, and the chopped coriander. 6. Place a frying pan over a high heat and cook the chicken thighs, without the marinade, until browned and cooked. Add the marinade to the pan, cover with oil and cook for 10-15 minutes, or until the chicken is cooked through as the juices run clear. Slice the chicken into strips. 7. Meanwhile, cook the rice according to packet instructions. 8. Divide the tortillas between four plates and top with the rice, chicken, sauce, mozzarella and lettuce. Fold up the bottom of each tortilla, then fold the sides in and roll to contain the filling. Cut in half to serve.</p> </div> <div> <ul style="list-style-type: none"> <li>• Chicken Thighs 800 g</li> <li>• Mayonnaise 2 Tbsp</li> <li>• Sour Cream 2 Tbsp</li> <li>• Lime 1</li> <li>• Rice 150 g</li> <li>• Tortilla 4</li> <li>• Mozzarella 1 Tbsp</li> <li>• Tomatoes 2</li> </ul> </div> <div> <p>Preparation Time: 1:30:00 Cooking Time: 0:30:00 Difficulty: Medium Serving Size: 4</p> </div> <div> <a href="#">View Reviews</a> </div>



7.6.1	SQL shows a unique ID for each recipe.	<pre> MariaDB [recipeapp]&gt; select recipe_id, recipe_name from recipe; +-----+-----+   recipe_id   recipe_name   +-----+-----+   1   Jollof Rice     2   Firecracker Prawns with stir-fried greens     3   Fish and Chips     4   Battenberg cake     5   Jam roly-poly     6   Chicken burritos   +-----+-----+ 6 rows in set (0.000 sec)  MariaDB [recipeapp]&gt; </pre>
7.7.1	SQL shows a unique ID for each ingredient and the name of the ingredients.	<pre> MariaDB [recipeapp]&gt; select * from ingredients; +-----+-----+   ingredients_id   ingredients_name   +-----+-----+   1   Sunflower Oil     2   Cod Fillets     3   Flour     4   Black Pepper     5   Lager     6   Potato     7   Butter     8   Sugar     9   Eggs     10   Vanilla Extract     11   Teign Sugar   +-----+-----+ </pre>
8.1.1.1	The top box is for rating 1 to 5 and the review button is for writing texts.	

## Integration Test Cases


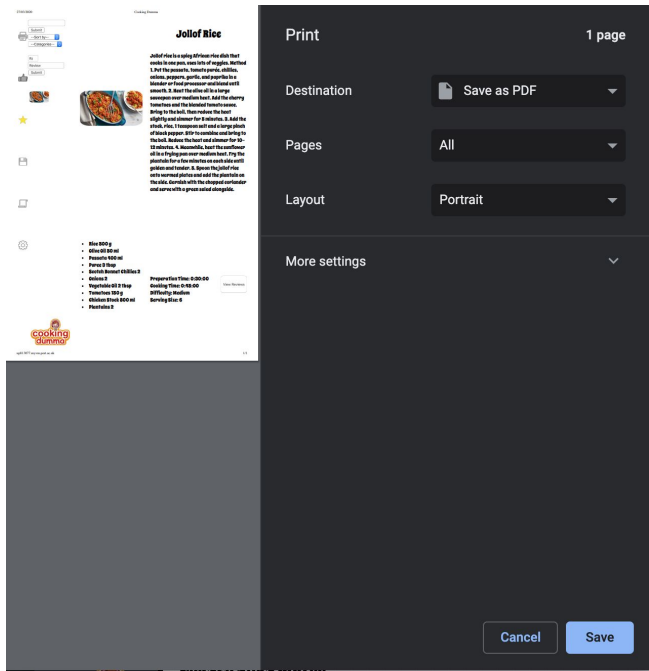
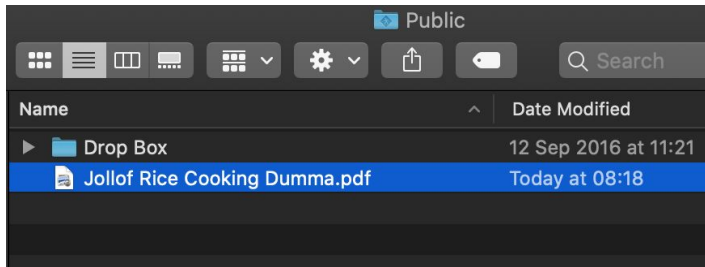
Test ID	Req ID	Test Case Objective	Test Case Description	Expected Outcome	Pass/Fail	Screen shot ID
10.1	FUNC_1	Test the recipe is	1. Click save icon	PDF file should	Pass	10.1.1 10.1.2

		saved as a pdf file locally on the computer.	2. Select save as PDF and click save 3. Select PublicFolder and click save	be saved in the Public folder		10.1.3
11.1	FUNC _2	Test rating and reviewing recipe.	1. Click the 'thumbs up' button 2. Select rating 5 from the menu 3. Type 'Amazing!!' and click submit	Pop up message 'Review has been submitted successfully.'	Pass	11.1.1 11.1.2
12.1	FUNC _3	Test filter out ingredients from searches.				
13.1	FUNC _4	Test listing the results via ratings.				
14.1	FUNC _4	Test listing				

		the results via the newest added recipe.				
15.1	FUNC_5	Test searching via categories and getting results.	1. Select 'seafood' from the drop-down menu. 2. Click submit.	Display 2 recipes, Fish and Chips and Firecracker Prawns.	Pass	0.0.1 0.0.2
16.1	FUNC_6	Narrow down search results via tags				
17.1	FUNC_7	Nutritional information				
18.1	FUNC_7	Average rating				
19.1	FUNC_7	Number of ratings				
20.1	FUNC_8	Links to display				

		different pages				
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## Integration Test Cases Screenshots

Screenshot ID	Screenshot
10.1.1	
10.1.2	
10.1.3	

11.1.1	
11.1.2	
15.1.1	
15.1.2	