

Test case plan						
ID#	Functionality	Scenario	Steps to be Executed	Actual Result	Pass/Fail Samsung	Comments
1	Installation Testing	App loads	After tapping on app icon app, login screen loads within 2 seconds.	App opens successfully and displays Login Screen	Pass	
2	Installation Testing	The app installs properly	We used android studio to install the application	The app installs without fail	Pass	
3	Functionality Testing	Calendar tab opens	After tapping on app icon app, calendar tab opens automatically.	App opens to calendar tab.	Pass	
4	Functionality Testing	Ingredients tab opens	From calendar page, tap on ingredients tab to open ingredients page.	Ingredients page opens successfully.	Pass	
5	Functionality Testing	Recipes tab opens	After tapping on the recipes tab on the bottom right corner (third icon on the navbar), the recipes tab opens with a list of generated recipes.	Recipes page opens successfully.	Pass	
6	Interface Testing	The app opens and displays the proper month and year at the top	The user needs to open the app, in this case it's supposed to show the month "May 2025"	The app shows the result "May 2025"	Pass	
7	Interface Testing	Scroll bar for days of the week should be functional (able to scroll between all days of the week)	On the calendar page, select the days of the week part of the screen and scroll to the left to scroll through the days of the week.	The scroll bar works, so users can scroll through the days of the week.	Pass	
8	Interface Testing	Arrows to navigate between months is functional (can scroll between different months)	On the calendar page, select the left and right arrows to navigate between the months.	The arrows do not work, so the month remains on "May 2025"	Fail	
9	Interface Testing	The button of the current day changes to the color pink	When the user enters the application, the day of the week button should turn pink	Friday is pink	Pass	
10	Interface Testing	On calendar page, in the row with days of the week, the current day of the week is highlighted.	Select calendar tab and scroll through the days of the week until the current day of the week is reached. Look to see if the current day is highlighted in purple and rounded, and that the rest of the days of the week are grey and boxed.	The app highlights "Friday," which is the current day during this test.	Pass	
11	Usability Testing	Value is inputted into the "sugar per meal (in grams)" prompt and recipes with that sugar amount is created	After refreshing the sugar per meal and inputting a new value in, the recipes for each day should change	For each day, the recipes changed except for Friday and Saturday because there aren't enough ingredients to generate more new recipes	Pass	Run a trial once more with more ingredients
12	Usability Testing	Value is inputted into the "sugar per meal (in grams)" prompt and recipes with that sugar amount is created	After refreshing the sugar per meal and inputting a new value in, the recipes for each day should change	The app now generates recipes for Friday as well but can't get recipes for Saturday. Because we don't repeat recipes, this can be because there isn't enough recipes in the API	Pass	CHECK THIS LATER!!!
13	Interface Testing	Header in the ingredients fragment	When the user opens the recipe fragment, there should be a header that tells them to add a recipe if they don't have any	When there are no ingredients, the header appears	Pass	
14	Usability Testing	Adding ingredients	The user should be able to click the recipe page and be able to click the purple button. A pop up will show up and the ingredient will be added	The application successfully adds an ingredient	Pass	
15	Usability Testing	Removing ingredients	The user should be able to click the recipe page and be able to press and hold the ingredient they would like to remove	The ingredient is removed	Pass	
16	Functionality Testing	Ingredients are loaded when the user exits the fragment and comes back	The user needs to click on another fragment other than ingredients. When they come back to the ingredients fragment, the ingredients should be still there	The ingredients appear	Pass	

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17	Functionality Testing	Ingredients are loaded when the user exits and comes back to the application	The user needs to add ingredients, exit the app, and reopen the app and come back to the ingredients fragment	The ingredients appear	Pass	
18	Compatibility Testing	Using the app when the device is in vertical orientation	Open the app and put the device in a vertical orientation.	The app orientation is flipped vertically.	Pass	
19	Compatibility Testing	Using the app when the device is in horizontal orientation	Open the app and put the device in a horizontal orientation.	The app orientation is flipped horizontally.	Pass	// check this because some features may overlap?
20	Functionality Testing	The recipes that appear contain the majority of the added ingredients	After the ingredients are added, the recipes tab generates recipes containing recipes within the ingredients tab	The app returns recipes that contain the majority of the ingredients that were added to the ingredients list	Pass	
21	Functionality Testing	The days of the week are updated with recipes from the recipe fragment	After the recipes fragment has generated a list of recipes, the recipes are then added to each day of the week.	After the app is opened and the ingredients are added, the recipes for each day of the week is changed. For each day, there is a new recipe for breakfast, lunch, and dinner.	Pass	
22	Compatibility Testing	The application installs successfully on devices other than a tablet	The app can be downloaded and compiled on a phone with the same functionality as it has on the tablet.	The app can be downloaded and compiles well on other devices.	Pass	
23	Compatibility Testing	The application installs successfully on devices other than a tablet	The app can be downloaded and compiled on a laptop with the same functionality as it has on the tablet.	The app can functions properly on a computer with no problems.	Pass	
24	Services Testing	The app generates recipes on the recipes tab when the device is offline	The app generates meal plans on the recipes tab based on available ingredients when the device is not connected to the internet	The recipes were not generated on the recipes tab. On the recipe tab, there were 3 pop ups that stated loading breakfast, loading lunch, and loading dinner but the recipes never loaded.	Fail	//Try again because new recipes were updated for the calendar but not for the recipes tab
25	Services Testing	The app generates recipes on the calendar tab pop-ups when the device is offline	The app generates meal plans on the calendar tab based on available ingredients when the device is not connected to the internet	The app was able to display the recipes for each day of the week on the calendar tab.	Fail	
26	Services Testing	Ingredients can be added offline	When the device is not connected to the internet, ingredients can still be added in the ingredients fragment	Ingredients were able to be added in the ingredients tab.	Pass	
27	Services Testing	Ingredients can be removed offline	When the device is not connected to the internet, ingredients can still be removed in the ingredients fragment	When the user presses and holds the ingredients in the ingredients tab, the ingredient is removed from the list.	Pass	
28	Services Testing	The days of the week load when the app is offline	When the device is not connected to the internet, the days of the week, month, and year all load in the calendar fragment	The days of the week as well as the month is loaded on the calendar tab.	Pass	
29	Services Testing	The correct day of the week is highlighted when the app is offline	When the device is not connected to the internet, the correct day of the week is highlighted in pink in the calendar fragment	The current day of the week is highlighted purple.	Pass	
30	Functionality Testing	When the user taps on the day of the week, a menu pops up with the meals planned for that day	When the user taps on a day of the week, a menu pops up with the day of the week, a "close" button at the bottom of the pop up, and meal plans	Once the user taps each day of the week, the recipes for that day are displayed on the pop up along with a close button to get rid of the pop up.	Pass	

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31	Functionality Testing	The menu that shows up when the user taps on the day of the week shows the correct number of meals	The menu that appears when the user taps on the day of the week displays the name of the food for each of three major meals: "breakfast," "lunch," and "dinner"	In the calendar tab when the user clicks a day of the week, a pop-up appears that displays meals for breakfast, lunch, and, dinner.	Pass	
32	Functionality Testing	When the user taps on the menu that pops up when they tap on the day of the week, they are taken to the recipes tab	If the user taps on the menu popup that appears, they are taken to the recipes tab with more details on each meal, along with the recipe	When the user clicks the menu pop-up, the user is taken to the recipes tab with more information about all the recipes.	Pass	
33	Functionality Testing	When the user taps the "close" button on the bottom of the menu that pops up when they tap the day of the week, the menu closes	When the user taps on the "x" at the top right corner of the popup menu, the menu closes, leaving them in the calendar tab	When the "close" button is pressed, the pop-up is gone and the user is left on the calendar pages.	Pass	
34	Usability Testing	The user inputs a value other than a number in the input box for "sugar per meal"	A comma (,) is inputted into the box on the calendar fragment that prompts the user for a "sugar per meal" input	When the user inputs a symbol such as a comma, the symbol is not input into the text box.	Pass	
35	Usability Testing	The user inputs a value other than a number in the input box for "sugar per meal"	A negative number is inputted into the box on the calendar fragment that prompts the user for a "sugar per meal" input	The app does not display the option to input a negative number	Pass	
36	Usability Testing	The user inputs a value other than a number in the input box for "sugar per meal"	A letter is inputted into the box on the calendar fragment that prompts the user for a "sugar per meal" input	The app does not display the option to input a letter	Pass	
37	Usability Testing	The user inputs non-food items as an ingredient in the ingredients tab	A value other than a food (for example, a number) is inputted as an ingredient in the ingredients tab of the app	When a number is input into the ingredients tab, the number is added to the list of ingredients.	Fail	
38	Interface Testing	The calendar tab displays the current day's three meals upon opening the app	When the user opens the tab, promptly after the loading screen, they are loaded into the calendar tab. Along with the current week, highlighted day, current month and year, the tab also displays the current day's meal plan	When the app is opened, the calendar page is opened and the current day of the week is highlighted. The app does not open to a pop-up of the recipes for the current day.	Fail	// The apps fulfills most of the requirements for this test case except that the pop-up for the current day doesn't open up.
39	Functionality Testing	User inputs a different value into the "sugar per meal" box and the recipes tab updates	If the user inputs a different value into the "sugar per meal" box in the calendar page, the recipes tab updates with new recipes that suit their desired maximum	When the user inputs different values into the "sugar per meal" box, the recipes in the recipe tab is updated.	Pass	
40	Functionality Testing	User inputs a different value into the "sugar per meal" box and the recipes tab updates	If the user inputs a different value into the "sugar per meal" box in the calendar page, the pop-ups on the calendar tab is updated with new recipes.	When the user inputs different values into the "sugar per meal" box, the recipes in the recipe tab is updated.	Pass	
41	Interface Testing	The user can scroll through the ingredients list	When the user is in the ingredients tab, they can scroll through the entire list of ingredients, assuming that not all the ingredients can be displayed on one page	When the user inputs different values into the "sugar per meal" box, the recipes on the pop-ups for each of the days is updated.	Pass	
42	Interface Testing	The user can scroll through the recipes	When the user is in the recipes tab, they can scroll through the recipes and their instructions, assuming that it cannot all be displayed on one page	On the recipe tab, the user can scroll through all the recipes.	Pass	
43	Functionality Testing	The same recipes appear when the user closes and reopens the tab	When the user switches from the recipes tab to any other tab and then back to the recipes tab, the same recipes appear throughout	When the user switches tabs, recipes on the recipes tab remains the same.	Pass	
44	Functionality Testing	The same recipes appear on the calendar pop-up when the user closes and reopens the tab	When the user switches from the recipes tab to any other tab and then back to the recipes tab, the same recipes appear in the pop-up on the calendar tab.	When the user switches tabs, recipes on the calendar pop-up remains the same.	Pass	

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45	Functionality Testing	The same recipes appear when the user closes and reopens the app	When the user closes the app after being on the recipes tab, the same recipes appear when the user reopens the tab	When the user closes and re-opens the app, the recipes are different on the recipes tab.	Fail	
46	Functionality Testing	Recipes update as ingredients change	When the user updates their ingredients, the recipes tab automatically updates to fit their ingredients list.	The recipes do not change if ingredients are removed.	Fail	
47	Interruption Testing	The user receives an incoming call while they are in the app	If the user receives an incoming call while they are in the app, the app resumes from where the user left off, with the same recipes and ingredients, remaining in the same tab that the user originally had open without losing data	When the user receives a call while they are in the app, the call doesn't disrupt the app and all the information is saved. After the call is completed, the user continues where they left off.	Pass	
48	Interruption Testing	The device powers off while the user is in the app	If the device powers off (low battery) while the user is in the app, the app resumes from where the user left off, with the same recipes and ingredients, remaining in the same tab that the user originally had open without losing data	When the device is turned off while the user is in the app and the user reopens the app, all the information is saved and the user starts again where they left off.	Pass	
49	Interruption Testing	The user receives a notification from another app while they are in the app	If the user receives a notification from another app while they are in the app, the app resumes from where the user left off, with the same recipes and ingredients, remaining in the same tab that the user originally had open without losing data	When a notification appears while the user is on the app, all the information on the app is saved and once the notification disappears, the app works the same.	Pass	
50	Performance Testing	The app functions well even when multiple users are using the app	The app functions as expected while the application's server is being accessed simultaneously by several users	The app functions properly when being used on multiple devices. All features work as expected on both devices.	Pass	
51	Performance Testing	The app functions well even when the device has low battery	The app functions as expected under the condition that the device has low battery	When the app has low battery, the app's functionalities work the same and there are no problems to the user.	Pass	
52	Usability Testing	The app adjusts to "dark" and "light mode" devices	Switch between light and dark mode in the device settings and verify that the app UI adjusts accordingly	On devices that set light theme as a default, the background is white, for devices with a dark theme, it turned into a dark mode.	Pass	
53	Interruption Testing	The device is locked and then unlocked	If the device turns off and locks, then is unlocked by the user, the app resumes from where the user left off, with the same recipes and ingredients, remaining in the same tab that the user originally had open without losing data	When the device is turned off and turned back on again, the screen is left exactly where the user left at.	Pass	
54	Interface Testing	removing the header that tells the user to add ingredients	When the user adds an ingredient, the header that tells the user to add an ingredient should be removed	the header is removed when the user adds an ingredient	Pass	
55	Interface Testing	The header on the recipes page should not appear when there are ingredients	Unlike the last test, this header should not show up when the user leaves the recipes fragment and comes back to it. Just like the last test, the user should add and ingredient, leave the page, and come back	the header does not show when the user leaves the recipes page and comes back	Pass	
56	Functionality Testing	Recipe pop up displays	The user must go to the calendar fragment and click on a day, a pop up will display	There is a pop up	Pass	
57	Functionality Testing	The pop up becomes populated with recipes	The user must go to the calendar fragment and click on a day, if the user has enough ingredients and a reasonable sugar requirement, the pop up will have recipes	The pop up appears with recipes	Pass	

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58	Functionality Testing	Clicking the pop up will transport the user to the recipes fragment	The user must open the app can select a day, selecting the pop up will transport them to the recipes page	The pop up takes the user to the recipes page	Pass	
59	Functionality Testing	Clicking on the recipe pop up will populate the recipe fragment	The user must open the app and click on a day button, afterwards they must click the pop up and it should populate the recipe page with the instructions, ingredients, and title	The recipe page is populated	Pass	
60	Interface Testing	The containers for the recipes are pink	When the user moves to the recipes fragment, the containers for the 3 meals should have a pink background color	The containers have a pink background color	Pass	
61	Interface Testing	The containers have a rounded border	The user must use the recipe fragment, if the containers have a rounded border, then this case is passed.	The background has rounded borders	Pass	
62	Interface Testing	The container has white text	The user must navigate to the recipes fragment. The containers should have white text	The text color is white	Pass	
63	Interface Testing	The containers contain bolded sections	The user must navigate to the recipes fragment. The containers should have bolded sections (title, ingredients, instructions).	The sections are bolded	Pass	
64	Installation Testing	Diabite logo	when the user installs the app, the app has the logo of DiaBite	The app has the DiaBite logo	Pass	
65	Functionality Testing	Functioning close button for the pop up	When the user clicks on a day through the calendar page, they should be able to click on a close button to exit the pop up	The close button exits the pop up	Pass	
66	Functionality Testing	Proper API calls to spoonacular	When the user clicks on the calendar, valid recipes will be generate through spoonacular	Recipes are properly pulled and used throughout the app	Pass	
67	Functionality Testing	Using decimal in the sugar per meal field	The user opens the application and can't input a decimal in the sugar per meal field	The decimal does not appear	Pass	
68	Functionality Testing	The user cannot input a negative number in the sugar per grams field	The user opens the application and can't input a negative number in the sugar per meal field	The negative sign does not even appear	Pass	
69	Functionality Testing	Inputting numbers into the ingredients page should not be allowed	The user opens the app and tries inputting a punctuation mark (ie. comma) in the ingredients page	The comma gets added to the ingredient list.	Fail	
70	Operational Testing	Ingredients are stored when the battery dies	Ingredients remain in the app when the battery dies	The recipes are still saved.	Pass	
71	Operational Testing	Ingredients remain after the application updates	The user updates the application, when they reopen it and navigate to the ingredients fragment, it will still have saved recipes	The recipes are still saved.	Pass	