

System and Unit Test Report

Product Name: KITT

Team name: The KITT Kats

December 1st, 2019

System Test scenarios (25 points per sprint – total 75 points): You have identified user stories (that map to user requirements/functionality for your system) completed for each sprint (in that sprint's report). You will be using scenario-based testing. Scenario based testing focuses on how the user uses the system and allows for multiple user roles as well as multiple functions provided for each user role. For each sprint, list the user story or stories and the scenario or scenarios that show 'coverage' of those user stories. A scenario is a list of system level actions (including precise input and output) a user would follow to determine that each user story has been completed.

- I. User Story 1 Sprint 1 & 2:** As a user, I want to be able to manually input a food item and give it an expiration date so that I can keep track of what I have and when it will expire

A. Scenario:

- 1. Start KITT app**
- 2. Click 'skip' button on the home screen**
- 3. Click the round + button on the bottom right of screen**
- 4. Type:**
 - a) Item name = "apples"**
 - b) Expiration date = *choose date a week from now***
- 5. Click the round check button at the bottom right of the screen**
- 6. User should see their item as a list view on the home screen (list is ordered by expiration date, so those with a later expiration date will be towards the bottom)**

- II. User Story 2 Sprint 1 & 2:** As a user I want to be able to use a calendar so that I can see on what days my food will expire.

A. Scenario 1:

- 1. Start KITT app, click 'skip' button on the home screen**
- 2. Click the Calendar icon (middle)**
- 3. User should see a calendar view**

B. Scenario 2:

- 1. Start KITT app, click 'skip' button on the home screen**
- 2. Click the Calendar icon (middle)**
- 3. User should see a calendar view with gray icons on days where food has expired and green icons on days food will expire**

C. Scenario 3:

1. Start KITT app, click 'skip' button on the home screen
2. Click the Calendar icon (middle)
3. User should see a calendar view with gray icons
4. User can click on a day food expires and receive a pop up stating which food has or will expire
5. User can click 'Okay' to exit the pop up

D. Scenario 4:

1. Start KITT app, click 'skip' button on the home screen
2. Click on the calendar fragment

III. User Story 3 Sprint 2 & 3 & 4: As a user I want to receive notifications so that I won't forget what food I have and when it's going to expire

A. Scenario:

1. Start KITT app, click 'skip' button on the home screen
2. Click on the settings fragment

B. Scenario:

1. Start KITT app, click 'skip' button on the home screen
2. Click the settings icon on the bottom right of screen
3. User should see settings page with notification settings
4. User is able to use the switch and tap on change notification frequency

C. Scenario:

1. Start KITT app, click 'skip' button on the home screen
2. Click the settings icon on the bottom right of screen
3. User should see settings page with notification settings
4. Upon tapping change notification frequency, user receives a pop up with 4 different checkboxes to select

D. Scenario:

1. Start KITT app, click 'skip' button on the home screen
2. Click the settings icon on the bottom right of screen
3. Click on "Notification frequency"
4. Check that "1 day before, 3 days before, and 1 week before" are checked, and if not check them.
5. Click the round + button on the bottom right of screen
6. Type:
 - a) Item name = "apples"
 - b) Expiration date = *choose date a week from now*
7. Click the round check button at the bottom right of the screen

8. User should see their item as a list view on the home screen (list is ordered by expiration date, so those with a later expiration date will be towards the bottom)
9. User should see notifications at 11AM for the given days that their notification settings are set for.

E. Scenario:

1. Start KITT app, click 'skip' button on the home screen
2. Click the settings icon on the bottom right of screen
3. Click on "Notification frequency"
4. Check that all the preferences are checked, and if not check them.
5. Click the round + button on the bottom right of screen
6. Type:
 - a) Item name = "apples"
 - b) Expiration date = *choose tomorrow's date*
7. Click the round check button at the bottom right of the screen
8. User should see their item as a list view on the home screen (list is ordered by expiration date, so those with a later expiration date will be towards the bottom)
9. User should see notifications at 11AM for the given days that their notification settings are set for, and if food entry was after 11AM, the notification should pop up soon after it was entered in the app.

IV. User Story 4 Sprint 2 & 3 & 4: As a user, I want my home page and calendar pages to look nice so that it will be visually pleasing

A. Scenario

1. Start KITT app, click 'skip' button on the home screen
2. Click the settings icon on the bottom right of screen
3. Click on "Notification frequency"
4. Check that all the preferences are checked, and if not check them.
5. Click the round + button on the bottom right of screen
6. Type:
 - a) Item name = "apples"
 - b) Expiration date = *choose tomorrow's date*
7. Click the round check button at the bottom right of the screen
8. User should see their item as a list view on the home screen (list is ordered by expiration date, so those with a later expiration date will be towards the bottom)
9. Click the round + button on the bottom right of screen
10. Type:
 - a) Item name = "orange chicken"

b) Expiration date = *choose tomorrow's date*

11. Click the round check button at the bottom right of the screen

12. User should see their item as a list view on the home screen (list is ordered by expiration date, so those with a later expiration date will be towards the bottom)

13. Experience and views should be easy for the user to navigate

V. User Story 6 Sprint 4: As a user, I want to sign in with Google so that my data is saved

A. Scenario

1. Start KITT app

2. Click the Google sign in button on the splash screen

3. If the internet connection is established, user should be able to sign in and be seen in Firebase console. App should not crash or stall if the sign in fails due to lack of internet connection.

4. Splash screen should not be shown again unless user signs out.

B. Scenario

1. Start the KITT app

2. Click the Google sign in button on the splash screen.

3. If the internet connection is established, user should be able to sign in and be seen in Firebase console. App should not crash or stall if the sign in fails due to lack of internet connection.

4. Click the settings tab in the main activity and click the sign out option

5. A dialog should pop up confirming the sign out and the login splash screen should be displayed at every subsequent app launch.

VI. User Story 7 Sprint 4: As a user I want an intuitive and user-friendly way to input the food items so that it's not confusing and easy to keep track of my groceries

B. Scenario

1. Start KITT app, click 'skip' button on the home screen

2. Click the settings icon on the bottom right of screen

3. Click on "Notification frequency"

4. Check that all the preferences are checked, and if not check them.

5. Click the round + button on the bottom right of screen

6. Type:

a) Item name = "apples"

b) Expiration date = *choose tomorrow's date*

7. Click the round check button at the bottom right of the screen

8. User should see their item as a list view on the home screen (list is ordered by expiration date, so those with a later expiration date will be towards the bottom)

9. Click the round + button on the bottom right of screen

10. Type:

a) Item name = “bananas”

b) Expiration date = *choose tomorrow’s date*

11. Click the round check button at the bottom right of the screen

12. User should see their item as a list view on the home screen (list is ordered by expiration date, so those with a later expiration date will be towards the bottom

13. Click the round + button on the bottom right of screen

14. Type:

a) Item name = “orange chicken”

b) Expiration date = *choose tomorrow’s date*

15. Click the round check button at the bottom right of the screen

16. User should see their item as a list view on the home screen (list is ordered by expiration date, so those with a later expiration date will be towards the bottom

17. Swipe left to delete the item you already ate

18. User should see the list of items on the main home page, without the item that they just deleted.