

System and Unit Test  
Product: SafeHouse  
Team: Safehouse Keepers  
Date: 23 November 2021

A. User story 1 from sprint 1: As someone who gets confused easily, I want a basic UI that is able to display my tasks so that I can examine everything I've entered into my checklist.

B. User story 2 from sprint 1: As someone who has a lot of tasks to remember before leaving the house, I would like a way to add or remove tasks to my checklist so that I can keep track of the things I need to remember before leaving the house.

C. User story 1 from sprint 3: As an individual who cares about visuals, I want the app to be more user-friendly and look more appealing so that it's easier to look at and navigate around.

D. User story 2 from sprint 3: As a user who wants to have their information saved securely, I want the app to use a secure authentication system like Firebase so that I can just use my gmail account as my account for SafeHouse.

E. User story 7 from sprint 4: As a developer, I want to prevent users from spamming the database so that our systems aren't overloaded, and additionally allow our app to continue running quickly.

Scenario:

1. Start Safehouse app, new users should be at the Login screen that shows only the "Log-In" Button in the center.
2. Press the "Log-In" button to sign in with a Google account. User should be at the Home screen with a green menu bar at the top with a left hamburger button and a right map button. "Before leaving home: " should be displayed.
3. In the "Write a task" field at the bottom, type "Task 1". Then, press the "+" button. User should see "Task 1" under "Before leaving home:" on the Home Screen.
4. Press the checkbox next to "Task 1". A check mark should appear. Press the checkbox again. The check mark disappears..
5. Press the Trash icon next to "Task 1". "Task 1" should be deleted
6. Now try to press the "+" button without typing a task. An alert saying "You cannot have an empty task!" pops up.
7. Now try to add a task that's over 50 characters long. An alert saying "Please keep your tasks under 50 characters in length!" pops up.

8. Now try to add 20 tasks. Then, add another task. An alert saying “You have the maximum amount of tasks!” pops up.

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F. User story 1 from sprint 2: As a person who leaves the house often, I want a way to log my home location so that my checklist allows me to edit it whenever I arrive home.

G. User story 2 from sprint 2: As someone who leaves the house often, I want the app to automatically detect when I'm close to my house so that I don't have to manually inform the app that I'm home.

H. User story 5 from sprint 3: As a forgetful person, I want my checklist to be locked when I'm out of the house and unlocked when I arrive home so that I don't second guess myself on the tasks I have listed.

I. User story 6 from sprint 4: As an end user, I want confirmation for changing my home location so that I don't accidentally relocate and lose my original location.

Scenario:

1. While signed in and at Home Screen, press the Map button at the top-right corner. User should be at the Map Screen where the map is displayed.
2. Press the Map button at the top-right corner again. User should be at the Home screen again.
3. On the Map screen, press the House icon at the bottom-right corner to set your Home location. An alert asking to confirm with “Yes” and “No” options pops up. Confirm and user should see a house icon at their current location on the map. Remember to have location services on.
4. To test the checklist lock:
  - a. Add two tasks at Home screen: “Task 1” and “Task 2”. This can be done while away or at home.
  - b. Set your current location to a few blocks away from your home location.
  - c. Tap the checkbox next to any task. An alert saying “You need to be at home to edit the task list.” pops up.

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J. User story 4 from sprint 3: As a user who wants my tasks to be saved on and offline with the mobile app, I want to have my inputs saved in Firebase database so that my inputs can be saved for later.

K. User story 3 from sprint 3: As a user who wants my tasks to be saved on and offline with the mobile app, I want to have my inputs displayed upon sign-in with Firebase through the app's

database so that my tasks and home address can be retrieved and used in the app without my having to reenter them.

Scenario:

1. To test that checklist is saved:
  - a. While signed in and at Home screen, have two tasks: “Task 1” and “Task 2”. “Task 1” should be check-marked.
  - b. Tap the top-left button. A “Sign-Out” button should appear.
  - c. Press the Sign-Out button and the user should be back at the Login screen.
  - d. Sign in again. User should be back at Homescreen with the two tasks still there. “Task 1” is still check-marked.