

Ohana! Verification Plan

Web-App Components

Sign-up Behavior

Changes from the architecture

- We got rid of manual email & password sign up
- We're using Google account sign in instead.

| Test Name | Method | Test Details | Expected Result |
|-------------|--------|--|---|
| testSignup | Manual | Click sign up button on signin page Sign up should be completed with the tester's UW email account. | Navigates to Google sign in page asking you to link your google account. Only does this the first time. |
| testSignout | Manual | Click signout button. | Page should be routed to the signin view. If there are no inputs in tasks page or users page, page should return additional pop-up asking if user is sure that he/she would like to exit. If changes are made to input without updating, page should return additional pop-up asking if user would like to exit without updating changes. |

Signin Behavior

| Test Name | Method | Test Details | Expected Result |
|------------|--------|--|---|
| testSignin | Manual | Click on 'signin' button on the home page. | Should navigate the user to the Google sign in view and |

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| | | Sign in should then be completed with the tester's UW email account. | <p>prompt them to enter their email and password.</p> <p>If signed into Google account on the browser, the user will be routed to the tasks + roommates view.</p> |
| testInccorectLogin | Manual | <p>Test account link with incorrect details.</p> <p>Use tester's UW email account with the incorrect password.</p> <p>Also test a non-existing email in the system using test*@gmail.com (where * is a number that does not yet exist in the Firebase database)</p> | Incorrect Login Details Message appears |

Browser Routing

| Test Name | Method | Test Details | Expected Result |
|-------------------|--------|---|---|
| testViewRoute | Manual | <p>Change the url in the browser from: https://ohana.com/ to: https://ohana.com/views/tasks</p> | <p>If user is signed into their Google account, the user will be automatically redirected to the tasks + roommates view</p> <p>Otherwise, they are directed to the signin page.</p> |
| testInvalidRoutes | Manual | <p>Change the url in the browser to: <a href="https://ohana.com/<text>">https://ohana.com/<text></p> | <p>Any invalid routes will be redirected back to the sign in page: https://ohana.com/signin</p> <p>Users will be routed to the appropriate view</p> |

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| | | | from depending on their signin state. |
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Roommates View Behavior

| Test Name | Method | Test Details | Expected Result |
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| testAddName | Manual | Add a user "@#oi" | It should tell you "invalid name" |
| | | Add a user "john1" | It should tell you "invalid name" |
| | | When there are no users added to the page, add a user "testing" | The name should be displayed in a static box and the input box should be below the name that was recently added |
| | | When there is a name "john" added, add a name "john" | It should tell you "name already exists" |
| | | When there is a name "john" added, delete the name "john" and then add a name "john" | The name should be displayed in a static box and the input box should be below the name that was recently added. There should be no "invalid name" error |
| | | No pre-condition. Try to add user " ". | It should tell you "invalid name" |
| | | Activate the textbox by clicking on it and without typing anything, click the plus icon | The button to submit should be disabled so the user cannot input an empty task. |
| | | Make sure there is no "gregory" in the | The name displayed should be |

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| | | added username, Add user “GreGOry” | all lowercase |
| testEditName | Manual | Have a name “john” be in the list, go into an edit mode for the name, change “john” to “rick”, click confirm | The box that was displaying “john” now displays “rick” |
| | | Have a name “john” be in the list, go into an edit mode for the name, change “john” to “”, click confirm | The button to submit should be disabled so the user cannot input an empty task. |
| | | Have a name “john” be in the list, go into an edit mode for the name, change “john” to “”, click confirm | Display “invalid name” |
| testDeleteName | Manual | Have a name “john” in the user list and click delete on the name. | The box containing the name should disappear |

Tasks View Behavior

| Test Name | Method | Test Details | Expected Result |
|--------------|--------|--|---|
| testAddTask | Manual | In the task view, a task “test1” is submitted as a new task. | “test1” should appear as a new task on the taskview |
| testEditTask | Manual | Edit button is clicked and the task name is changed to “editedtask”. | The task should now be listed as “editedtask” |

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| testDeleteTask | Manual | Delete button is clicked on the test task. | The test task should no longer appear as a task |
| testDuplicateTask | Manual | In the task view the same task is entered twice. The test would try to input “duplicate” and “duplicate”. | The view should alert the user with the error message “task already exists” |
| testBlankTask | Manual | In the task view an empty task (“”) is attempted to be submitted. | The button to submit should be disabled so the user cannot input an empty task. |

Alexa Skill Components

Account Linking Behavior

| Test Name | Method | Test Details | Expected Result |
|-----------------------|--------------------|--|---|
| testLinkCardSimulated | Manual (Simulator) | Test initial app launch to see if account link card appears in Alexa simulator | Account link card appears on Alexa simulator test environment and displays the Amazon generated Account Link option |
| testLinkCardActual | Manual | Test initial app launch to see if account link card appears in Alexa companion app | Account link card appears on Alexa companion app environment and displays the Amazon generated Account |

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| | | | Link option |
| testRedirect (Not available on simulated environment) | Manual | Test Link Card to ensure the account link redirect goes to correct link | Redirect to Ohana web app sign in page on Alexa companion app environment |
| testLinkSignUp | Manual | Test account linking through Alexa companion app to see if link occurs with an email and password sign up | Linked account appears in Firebase database with correct user emails and Alexa ID |
| testLinkSignIn | Manual | Test account linking through Alexa companion app to see if link occurs with an email and password that already exists on the web app | Existing account is linked in Firebase database with correct user emails and Alexa ID |
| testNewDevice | Manual | Test account linking through Alexa companion app to see if link occurs with an email and password that already exists on the web app with a different Alexa Device | Existing account is linked in Firebase database with correct user emails and both Alexa ID |
| testSkillReDownload | Manual | Test account linking through Alexa companion app after one initial account link, adding some data, deleting the skill, then redownloading the skill and performing a link. | Existing account is linked in Firebase database with correct user emails and one Alexa ID. Existing account includes the same data as after the first link. |

Alexa Skill Behavior

- We intend to write automated tests on AWS Lambda Console

- Our requirements spec does not account for the case when a roommate might mark someone else's task as done. We expect our users to only update their task statuses.

| Test Name | Method | Test Details | Expected Result |
|----------------|----------------|--|---|
| testLaunch | AWS Saved Test | Use one of these words to invoke the skill <ul style="list-style-type: none">• “Launch ohana”• “Open ohana”• “Load ohana”• “Start ohana”• “Run ohana” | The following text is in the speech output field of the response object: “Welcome, to ohana! Would you like to learn learn about how to use this skill?” |
| testStopIntent | AWS Saved Test | Example: To stop Alexa from listing all the tasks Input: “Alexa, stop” | The following text is in the speech output field of the response object: “Goodbye.” * This is how some other skills handle this request. |
| testHelpIntent | AWS Saved Test | Sample utterances: <ul style="list-style-type: none">• “Alexa, help me use ohana”• “Alexa, how can I use ohana?”• “Alexa, what can I do with ohana?”• “Alexa, what is ohana?” | The following text is in the speech output field of the response object: “You can say: Alexa, ask ohana what’s my task for today” The user is prompted to say their name: “What is your name?” “Mark” “Ok, Mark. You are assigned to buy groceries.” |

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| testGetTask | AWS Saved Test | Sample utterances: <ul style="list-style-type: none"> “Alexa, ask ohana what I have to do” “Alexa, tell ohana to get my task” “Alexa, ask ohana what my task is” | Speech response: <Reprompt> What is your name? </Reprompt> <Input>...<Input> <Speak>... is assigned to do dishes</Speak> |
| testMarkAsDone <ul style="list-style-type: none"> Confirm | AWS Saved Test | Sample utterances: <ul style="list-style-type: none"> “Alexa, tell ohana I’m done with my task” “Alexa, can you ask ohana to mark my task as done?” “Alexa, tell ohana to mark my task as complete” | Speech response <Reprompt> What is your name? </Reprompt> <Speak>You were assigned to _____. Are you sure you want to mark this as done?</Speak> <Input>Yes</Input> <Speak>Ok, done.</Speak> |
| testMarkAsDone <ul style="list-style-type: none"> Cancel | AWS Saved Test | Sample utterances: <ul style="list-style-type: none"> “Alexa, tell ohana I’m done with my task” “Alexa, can you ask ohana to mark my task as done?” “Alexa, tell ohana to mark my task as complete” | Speech response <Reprompt> What is your name? </Reprompt> <Speak>You were assigned to _____. Are you sure you want to mark this as done?</Speak> <Input>Cancel or No or Nah</Input> <Speak>Ok, intent cancelled.</Speak> |
| testUnexpectedUtterance | AWS Saved Test | Unexpected utterance: If the user input is not one of the sample utterances. | <Speak>“Sorry, ohana doesn’t recognize this phrase.”<Speak> <Reprompt>Would you like to get some help to use this skill?</Reprompt> |

| | | | <Input>...</Input> |
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| testIncorrectName | AWS Saved Test | Unexpected Name: User responds with a name that does not exist in the database when prompted with "What is your name?" | <p>"Sorry, ohana doesn't recognize that name. Please respond with a name in the system" (Reprompt two times. Prompt help intent afterwards)</p> <p>"Would you like to get some help to use this skill?"</p> |
| testGetHelp | AWS Saved Test | <p>User responds "Yes" to "Would you like to get some help to use this skill?"</p> <p>From the unexpected utterance intent.</p> | <p>The following text is in the speech output field of the response object:</p> <p>"You can say: Alexa, ask ohana what's my task for today"</p> <p>The user is prompted to say their name:</p> <p>"What is your name?"</p> <p>"Mark"</p> <p>"Ok, Mark. You are assigned to buy groceries."</p> |