Phood Buddy

**Test Plan**

**COP 4331 Spring 2016**

Team Name: The Phoodies

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Modification history:

|  |  |  |  |
| --- | --- | --- | --- |
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| v0.0 | 3/25/16 | Timothy Flowers | Initial Version (Contributions by all group members) |

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**Introduction**

**Overall Objective for Software Test Activity**

* Confirm that the mobile apps for Windows and Android function reliably and correctly on their respective platforms
* Confirm that the web version of the app works correctly and scales appropriately to a variety of screen dimensions
* Confirm that the backend services created function reliably and are able to communicate with our front end services

**Reference Documents**

* Concept of Operations
* Project Plan
* SRS

**Description of Test Environment**

The software will be tested by the developers. For convenience, emulators will be used for debugging purposes during development. For the final phase of testing, the product will be deployed to: physical devices on Windows 10 Mobile, a website for the web platform, and an emulator for Android. The specifics of the configurations for the various platforms can be found below.

* Web Platform
  + Google Chrome
  + Mozilla Firefox
  + Microsoft Edge
  + iOS Safari
* Windows 10 Mobile
  + Nokia Lumia 1520
  + Nokia Lumia 1330
* Android
  + Android Emulator

**Stopping Criteria**

During the testing process, scheduled tests will continue to be performed until all tests have been completed, or until the system encounters a fatal error. Any unexpected behavior encountered during the testing will be recorded and sent to the developer of the specified platform. At this point the developer will correct any of the unexpected behavior that was encountered during the testing phase. The testers will continually run through the test cases for two hours and then report their findings at a group meeting in order to determine if changes and further testing is required. If no errors are found within a two-hour testing session by any testers and a majority of the group feels that the aesthetics are acceptable, then the product will be deemed ready for delivery.

**Description of Individual Test Cases**

* Shopping List Insert Test
  + **Objective:** This test is used to make sure that a user is able to successfully add an item to their shopping list.
  + **Description:** The user will navigate to the “Shopping List” section of the respective app and select the option to add an item to their Shopping List. On the “Add Item” section the user will fill the appropriate fields with the item’s name and the desired quantity. The values of these two fields should vary from test to test.
  + **Conditions:** See “Description of Test Environment”.
  + **Expected Results:** The item should be appended to the list within the “Shopping List” section with the same name and quantity as specified in the “Add Item” section.
* Shopping List Remove Test
  + **Objective:** This test is used to make sure that a user is able to successfully remove an item from their shopping list.
  + **Description:** The user will navigate to the “Shopping List” section of the respective app and select an item they wish to delete. They will then select the delete option. From test to test the position of the item to be deleted should be varied.
  + **Conditions:** See “Description of Test Environment”.
  + **Expected Results:** The item selected should be removed from the list displayed in the “Shopping List” section
* Pantry Insert Test
  + **Objective:** The test is used to make sure that a user is able to successfully remove an item from their pantry inventory
  + **Description:** The user will navigate to the “Pantry” section of the respective app and select the option to add an item to their Pantry. On the “Add Item” section the user will fill the appropriate fields with the item’s name and the desired quantity. The values of these two fields should vary from test to test.
  + **Conditions:** See “Description of Test Environment”.
  + **Expected Results:** The item should be appended to the list within the “Pantry” section with the same name and quantity as specified in the “Add Item” section and the item should also show up in the pantry table of the database.
* Pantry Remove Test
  + **Objective:** The test is used to make sure that a user is able to successfully remove an item from their pantry inventory.
  + **Description:** The user will navigate to the “Pantry” section of the respective app and select an item that they wish to delete. They will then select the delete option. From test to test the position of the item to be deleted should be varied.
  + **Conditions:** See “Description of Test Environment”.
  + **Expected Results:** The item selected should be removed from the list displayed in the “Pantry” section and should also be removed from the pantry table in the database.
* Recipe Suggestion Test
  + **Objective:** The test is used to make sure that a user is able to get a valid recipe suggestion based on the items that they already have in their “Pantry”. It also ensures that the 3rd party APIs used to obtain recipes are behaving as expected.
  + **Description:** The user will navigate to the “Dashboard” and then select “Suggest Recipe”.
  + **Conditions:** See “Description of Test Environment”.
  + **Expected Results:** The recipe displayed should contain at least one ingredient that is also listed inside the user’s pantry.
* Account Creation Test
  + **Objective:** The test is used to ensure that a user is able to successfully create a Phood Buddy account.
  + **Description:** The user will open the app and select the “Create Account” option on the login screen. They will fill in the email and password fields they are prompted with or choose to register with a 3rd party service (Facebook, Google, Twitter). They will then press the submit button. Once they’ve submitted their credentials, they will be prompted to fill out information for a health profile, taste profile, and the option to connect a Fitbit account.
  + **Conditions:** See “Description of Test Environment”.
  + **Expected Results:** The credentials and profile information provided by the user will be added to the database given that the email is not already found within the users table.
* Account Login Test
  + **Objective:** The test is used to ensure that a user is able to successfully login using a Phood Buddy account
  + **Description:** The user will open the app and select the “Phood Buddy Account” option on the login screen. They will fill in the email and password fields with an email and password. They will then hit the login button.
  + **Conditions:** See “Description of Test Environment”
  + **Expected Results:** If the credentials are found within the users table within the database, the user will be logged in and navigated to the dashboard. If the credentials are not found they will be notified that their username or password was incorrect.
* 3rd Party Login Test
  + **Objective:** The test is used to ensure that the 3rd party APIs used to log users in (Facebook, Google, and Twitter) are functioning properly
  + **Description:** The user will open the app and select the appropriate third party service on the login screen. They will then fill in the email/username and password fields they are prompted with. They will then press the login button.
  + **Conditions:** See “Description of Test Environment”.
  + **Expected Results:** If the credentials are valid then the user will be navigated to the dashboard. If the credentials are not valid the user will be notified that their email/username and password were incorrect.
* Logout Test
  + **Objective:** The test is used to ensure that a user can successfully log out of Phood Buddy.
  + **Description:** The user will navigate to the “Dashboard” and select the log out option
  + **Conditions:** See “Description of Test Environment”
  + **Expected Results:** The user is returned to the log in screen. The user’s credentials are no longer stored locally. The next time the app is launched the user must resubmit credentials in order to use the app.
* Edit Profile Test
  + **Objective:** The test is used to make sure that a user is able to change the info in their user profile
  + **Description:** The user will navigate to the “Profile” section and select the “Edit” option. The user will change some of the data on the profile page and choose “Save”. The data that is changed and the values that it is changed to should be varied from test to test.
  + **Conditions:** See “Description of Test Environment”
  + **Expected Results:** The changes the user made should be reflected both on the app/website and in the database.
* Add Recipe Test
  + **Objective:** The test is used to make sure that a user can add their own recipes to the database
  + **Description:** The user will navigate to the “Dashboard” and select “Add Recipe”. The user will then fill in the details of the recipe to be added and push “Submit”.
  + **Conditions:** See “Description of Test Environment”
  + **Expected Results:** The recipe should be added to the database.
* Favorite Recipe Test
  + **Objective:** The test is used to make sure that when a user marks a recipe as a favorite, the recipe is successfully added to their “Favorite Recipes” section.
  + **Description:** When a user is viewing a recipe, they should choose the “Favorite” option.
  + **Conditions:** See “Description of Test Environment”
  + **Expected Results:** The recipe should now be viewable in the “Favorite Recipes” section and should also be saved to the database.