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DRINC

Interface Test Document

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Tester: Date:

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Revision history

Date	By	Description of changes
02-Feb-2014	DRINC Team	Initial Creation
28-Feb-2014	DRINC Team	Additional Information Added
7-Mar-2014	DRINC Team	Finished Interface Test Documentation

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1   Test Information

Test type

___ Full Test   ___ Regression Test

System Under Test

System name: _____   *Staple the recorder listing*

Version: _____   *of the configuration here*

Test Personnel

Name: Brandon Arnold_____   Date: _____   Time/h: _____

Name: Owen Ledvina_____   Date: _____   Time/h: _____

Name: Hoang Phan_____   Date: _____   Time/h: _____

Name: Kyle Timins_____   Date: _____   Time/h: _____

2   Test Summary

Results

Conclusion of the test: **PASS / FAIL**

Identifiers of the observations recorded:

_____

_____

Total number of cases failed: _____

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3   Background

Purpose and Scope of the Test

This test procedure will consist of testing the interfaces that will be used to control the DRINC device. These interfaces include the Android application and the website.

The requirements document will be available at drinc.org/documentation/requirements.pdf

Additional Information

Please, do not drink the drinks created during testing. Leave that to the interns.

Experience required

- Understanding of how to access and navigate a website

- Understanding of how to access and use Android applications

Test Items / Equipment Needed

- Remote internet connection to the Raspberry Pi web server.

- Web browser with HTML and Javascript support.

- Nexus 7 Tablet or other Android powered device

Estimated test time

It is estimated to take approximately one hour to complete the testing.

Reference Documents

[RD1]   *Requirements document, drinc.org/documentation/requirements.pdf*

Definitions

UC   Use Case
TC   Test Case

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4   Preparing the Test Environment

Application Setup

- To perform all tests completely, the Raspberry Pi must be in a powered on state
- All devices must be in a powered on state
- All software must be configured prior to the test. The configurations will stay between power cycles.

Equipment Checks

- Does the Android device power on?
- Can I connect to Apache2 via a web interface from remote locations?
- Is the database running and connectable?
- Is the device connected to a network?
- Is there a way to view output on the device?
- Is there a way to provide input to the device?

Test Instructions

If there is any uncertainty on how the interfaces work or interact, reference the requirements document at drinc.org/documentation/requirements.pdf

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5   Test Cases

DRINC Website Interface Test

Special Instructions

Please, do not drink the drinks.

Test Case ID	TC_FUNCT_01
Description	Tests website interface functionality
Applicable for	Internet Explorer 10, Firefox, Chrome
Requirements	User has valid login credentials User knows the URL (drinc.org)
Initial Conditions	Equipment is setup as per Equipment Setup section.

Step	Full / Regr	Task & Expected Result	
1		Access the website by going to the URL	
2		Verify that the website properly loads in all browsers	**Pass / Fail**
3		Enter correct Username and Password	
4	R	Verify that the username can be entered	**Pass / Fail**
5	R	Verify that the password can be entered	**Pass / Fail**
6	R	Verify that the password is hidden (Example: ••••)	**Pass / Fail**
7	R	Verify that the Login button is displayed	**Pass / Fail**
8		Click the Login button	
9	R	Verify that the Login button logs the user in when the user inputs the correct credentials	**Pass / Fail**
10	R	Verify that the following buttons are displayed on the left: Create a Custom Drink, Select a Drink, Most Drank	**Pass / Fail**
11		Click the Create a Custom Drink button	
12	R	Verify that the following buttons are still displayed on the left: Create a Custom Drink, Select a Drink, Most Drank	**Pass / Fail**
13	R	Verify that the following is presented: a Cancel button, a Save button, a text field to name the drink, a drop down menu, and the button Add an Ingredient	**Pass / Fail**

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14		Enter a name for the drink	
15	R	Verify that text can be entered in the text field for the name	**Pass / Fail**
16		Click the drop down menu and select an ingredient	
17		Verify that a list of ingredients are presented when the drop down menu is clicked	**Pass / Fail**
18		Click the "Add an Ingredient" button	
19	R	Verify that another drop down menu is displayed after the Add an Ingredient button is pressed	**Pass / Fail**
20		Click the newly created drop down menu and select an ingredient	
21		Verify that a list of ingredients are presented when the drop down menu is clicked	**Pass / Fail**
22		Click the Save button	
23		Click the Select a Drink button on the left	
24	R	Verify that the following buttons are still displayed on the left: Create a Custom Drink, Select a Drink, Most Drank	**Pass / Fail**
25	R	Verify that a list of drinks are displayed as large buttons, as well as a Create Drink and Delete Drink button	**Pass / Fail**
26		Verify that the drink you created previously is displayed	**Pass / Fail**
27		Click a drink, one of the large buttons displayed	
28		Verify that the large button clicked is highlighted	**Pass / Fail**
29		Click the Create Drink button	
30	R	Verify that a verification pop-up appears with the Create and Cancel buttons	**Pass / Fail**
31		Click the Create Button	
32	R	Verify that the pop-up window disappears	**Pass / Fail**
33	R	Verify that the DRINC machine is creating your drink	**Pass / Fail**
34		Verify that the drink created (if any) is the same one that you selected	**Pass / Fail**
35		Click a large button that is a drink	

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36		Verify that the large button clicked is highlighted	**Pass / Fail**
37		Click the "Delete Drink" button	
38	R	Verify that a verification pop-up appears with the Delete and Cancel buttons	**Pass / Fail**
39		Click the Delete button	
40	R	Verify that the pop-up disappears	**Pass / Fail**
41		Verify that the drink that you selected is now missing from the list of drinks	**Pass / Fail**
42		Click the Most Drank button on the left	
43	R	Verify that the following buttons are still displayed on the left: Create a Custom Drink, Select a Drink, Most Drank	**Pass / Fail**
44		Verify that a list of drinks are displayed as large buttons with numbers under them	**Pass / Fail**
45		Verify that a Create Drink button is also displayed	**Pass / Fail**
46		Verify that the list of drinks is sorted in order, from greatest to least, based on the numbers under them	**Pass / Fail**
47		Click a large button that is a drink	
48		Verify that the large button clicked is highlighted	**Pass / Fail**
49		Click the Create Drink button	
50		Verify that a verification pop-up appears with the Create and Cancel buttons	**Pass / Fail**
51		Click the Create Button	
52		Verify that the pop-up window disappears	**Pass / Fail**
53		Verify that the DRINC machine hardware is creating your drink	**Pass / Fail**
54		Verify that the drink created (if any) is the same one that you selected	**Pass / Fail**

Comments:

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DRINC Android Interface Test

Special Instructions

Please, do not drink the drinks.

Test Case ID	TC_FUNCT_02
Description	Tests Android interface functionality
Applicable for	
Requirements	User has valid login credentials User has downloaded the drinc app.
Initial Conditions	Android device is functioning properly

Step	Full / Regr	Task & Expected Result	
1		Access the application on the Android device	
2		Verify that the application properly loads	**Pass / Fail**
3		Enter correct Username and Password	
4	R	Verify that the username can be entered	**Pass / Fail**
5	R	Verify that the password can be entered	**Pass / Fail**
6	R	Verify that the password is hidden (Example: ••••)	**Pass / Fail**
7	R	Verify that the Login button is displayed	**Pass / Fail**
8		Select the Login button	
9	R	Verify that the Login button logs the user in when the user inputs the correct credentials	**Pass / Fail**
10	R	Verify that the following buttons are displayed on the left: Create a Custom Drink, Select a Drink, Most Drank	**Pass / Fail**
11		Select the Create a Custom Drink button	
12	R	Verify that the following buttons are still displayed on the left: Create a Custom Drink, Select a Drink, Most Drank	**Pass / Fail**
13	R	Verify that the following is presented: a Cancel button, a Save button, a text field to name the drink, a scroll/drop down menu, and the button Add an Ingredient	**Pass / Fail**
14		Enter a name for the drink	

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15	R	Verify that text can be entered in the text field for the name	**Pass / Fail**
16		Select the drop down menu and select an ingredient	
17		Verify that a list of ingredients are presented when the scroll/drop down menu is selected	**Pass / Fail**
18		Select the "Add an Ingredient" button	
19	R	Verify that another drop down menu is displayed after the Add an Ingredient button is pressed	**Pass / Fail**
20		Select the newly created drop down menu and select an ingredient	
21		Verify that a list of ingredients are presented when the drop down menu is selected	**Pass / Fail**
22		Select the Save button	
23		Select the Select a Drink button on the left	
24	R	Verify that the following buttons are still displayed on the left: Create a Custom Drink, Select a Drink, Most Drank	**Pass / Fail**
25	R	Verify that a list of drinks are displayed as large buttons, as well as a Create Drink and Delete Drink button	**Pass / Fail**
26		Verify that the drink you created previously is displayed	**Pass / Fail**
27		Select a drink, one of the large buttons displayed	
28		Verify that the large button selected is highlighted	**Pass / Fail**
29		Select the Create Drink button	
30	R	Verify that a verification pop-up appears with the Create and Cancel buttons	**Pass / Fail**
31		Select the Create Button	
32	R	Verify that the pop-up window disappears	**Pass / Fail**
33	R	Verify that the DRINC machine is creating your drink	**Pass / Fail**
34		Verify that the drink created (if any) is the same one that you selected	**Pass / Fail**
35		Select a large button that is a drink	
36		Verify that the large button selected is highlighted	**Pass / Fail**

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37		Click the "Delete Drink" button	
38	R	Verify that a verification pop-up appears with the Delete and Cancel buttons	**Pass / Fail**
39		Select the Delete button	
40	R	Verify that the pop-up disappears	**Pass / Fail**
41		Verify that the drink that you selected is now missing from the list of drinks	**Pass / Fail**
42		Select the Most Drank button on the left	
43	R	Verify that the following buttons are still displayed on the left: Create a Custom Drink, Select a Drink, Most Drank	**Pass / Fail**
44		Verify that a list of drinks are displayed as large buttons with numbers under them	**Pass / Fail**
45		Verify that a Create Drink button is also displayed	**Pass / Fail**
46		Verify that the list of drinks is sorted in order, from greatest to least, based on the numbers under them	**Pass / Fail**
47		Select a large button that is a drink	
48		Verify that the large button selected is highlighted	**Pass / Fail**
49		Select the Create Drink button	
50		Verify that a verification pop-up appears with the Create and Cancel buttons	**Pass / Fail**
51		Select the Create Button	
52		Verify that the pop-up window disappears	**Pass / Fail**
53		Verify that the DRINC machine hardware is creating your drink	**Pass / Fail**
54		Verify that the drink created (if any) is the same one that you selected	**Pass / Fail**

Comments:

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6 Traceability matrix

Requirement id	Test case id	Note
Requirements.pdf	TC_FUNCT_01	
Requirements.pdf	TC_FUNCT_02	

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