

Who: Christopher Leung, Chase Springer, Brian Larson, Zach Vargas

Title: Conversion App

Vision: Provide everyone with the means for calculating all forms of measurement. Give anyone the ability to perform complex math by themselves.

VCS: <https://github.com/ChaseSpringer/ConversionMobileApp>

Automated Tests:

The image shows two screenshots from the Xcode Instruments application. The top screenshot displays the 'Trace Log' view for an automated test named 'Automated Test'. The log shows a sequence of events from 5:11:01 PM MST to 5:11:05 PM MST. The events include tapping buttons on the main window and the navigation bar. The log ends with a 'Pass' status. The bottom screenshot displays the 'Script' view for the same test. The script is written in Swift and uses the XCTest framework to simulate the test actions. It starts by logging the test name, then taps buttons on the main window and the navigation bar, and finally logs the test as passed.

Index	Timestamp	Log Messages	Log Type	Screenshot
0	5:11:01 PM MST	Automated Test	Pass	
1	5:11:01 PM MST	target.frontMostApp().mainWindow().buttons()[0].tap()	Debug	
2	5:11:02 PM MST	target.frontMostApp().navigationBar().buttons()["Back"].tap()	Debug	
3	5:11:03 PM MST	target.frontMostApp().mainWindow().buttons()[1].tap()	Debug	
4	5:11:03 PM MST	target.frontMostApp().navigationBar().buttons()["Back"].tap()	Debug	
5	5:11:04 PM MST	target.frontMostApp().mainWindow().buttons()[2].tap()	Debug	
6	5:11:05 PM MST	target.frontMostApp().navigationBar().buttons()["Back"].tap()	Debug	
7	5:11:05 PM MST	Automated Test	Pass	

```
var testName = "Automated Test";
UIALogger.logStart(testName);

var target = UIATarget.localTarget();

target.frontMostApp().mainWindow().buttons()[0].tap();
target.frontMostApp().navigationBar().buttons()["Back"].tap();
target.frontMostApp().mainWindow().buttons()[1].tap();
target.frontMostApp().navigationBar().buttons()["Back"].tap();
target.frontMostApp().mainWindow().buttons()[2].tap();
target.frontMostApp().navigationBar().buttons()["Back"].tap();

UIALogger.logPass(testName);
```

This test is designed to test the tapping of the buttons and also the navigation bar using the xcode UI automated testing tool selected from Instruments. To run the test, from the xcode status bar select Product -> Run and once the project builds select Product -> Profile and the test will run from start to finish. Results are presented from the trace log.

User Acceptance Tests:

Project Name: Conversion App

Test Case 1

Test Case ID: Nav_01	Test Designed by: Christopher and Chase
Test Priority (Low/Medium/High): High	Test Designed date: 11/11/2015
Module Name: Home Screen	Test Executed by:
Test Title: Navigating Menus	Test Execution date:
Description: User tests home screen navigation buttons to move through the different screens	

Pre-conditions: Have an iPhone with the app installed.

Dependencies: iPhone.

Step	Test Step	Test Data	Expected Results	Actual Result	Status (Pass/Fail)	Notes
1	Open App		App opens w/o crashing			
2	Move into formula tab		Shows formula tab			
3	Move back to home screen		Home screen open up again			

Post conditions: App exits successfully.

Project Name: Conversion App

Test Case 2

Test Case ID: Nav_02	Test Designed by: Zach and Brian
Test Priority (Low/Medium/High): High	Test Designed date: 11/11/2015
Module Name: Formula tab	Test Executed by:
Test Title: Unit Type Navigation	Test Execution date:
Description: Be able to switch through different types of units	

Pre-conditions: Have an iPhone with the app installed.

Dependencies: iPhone

Step	Test Step	Test Data	Expected Results	Actual Result	Status (Pass/Fail)	Notes
1	Open App		App opens up			
2	Go to formulas screen		Formula screen is presented on screen			
3	Switch through each type of unit in the tabs		Can move through types of units quickly			

Post conditions: App exits successfully.

Project Name: Conversion App

Test Case 3

Test Case ID: Nav_03	Test Designed by: Brian, Chase, Christopher, Zach
Test Priority (Low/Medium/High): High	Test Designed date: 11/11/2015
Module Name: Formula Tabs	Test Executed by:
Test Title: User Conversion Search	Test Execution date:
Description: User is given certain unit conversions to perform and they rate how easily / quickly they can find what formula they need.	

Pre-conditions: Have an iPhone with the app installed.

Dependencies: iPhone

Step	Test Step	Test Data	Expected Results	Actual Result	Status (Pass/Fail)	Notes
1	Open App		App opens up			
2	Go to formulas tab		Switches to formula tab			
3	Find centimeters to meters conversion formula	cm to m	User gets to needed formula quickly			
4	Find to meters to inches conversion formula	m to in	User gets to needed formula quickly			
5	Find liters to gallons conversion formula	liters to gallons	User gets to needed formula quickly			

Post conditions: App exits successfully.