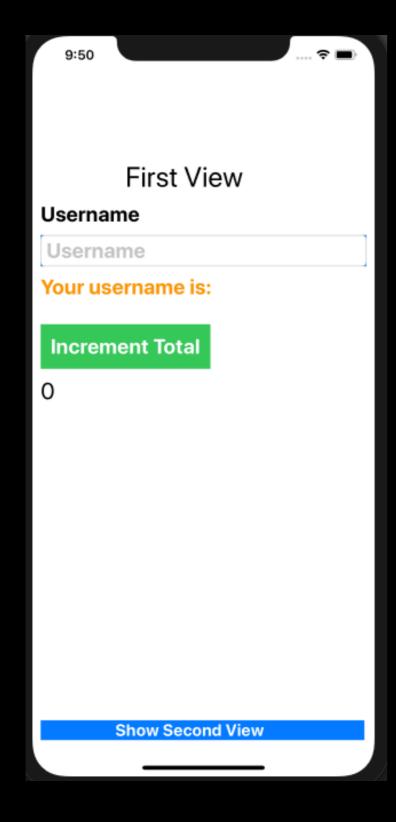
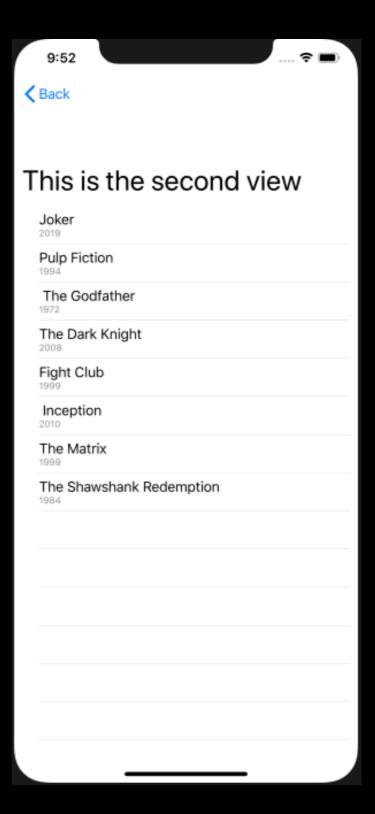
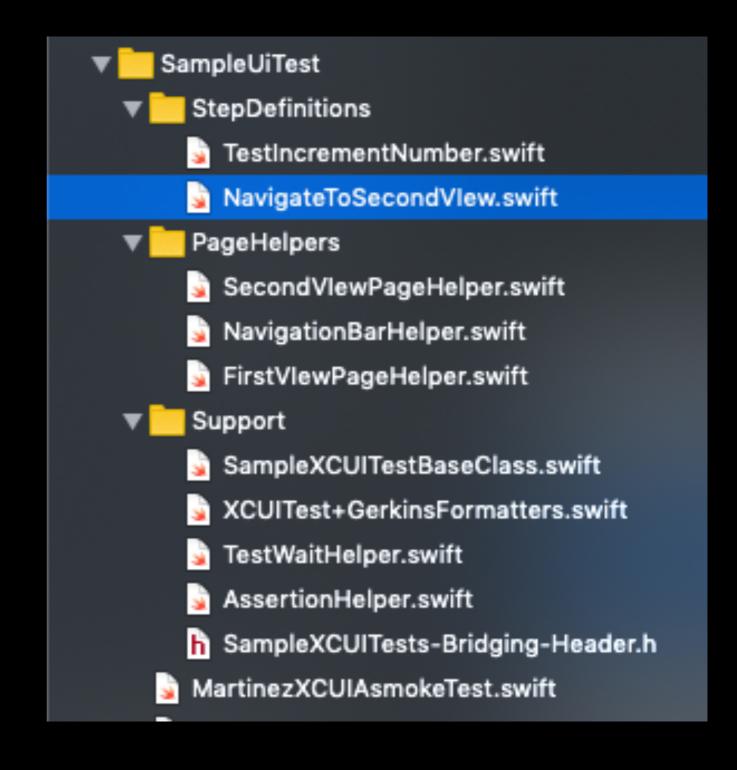
First and second views





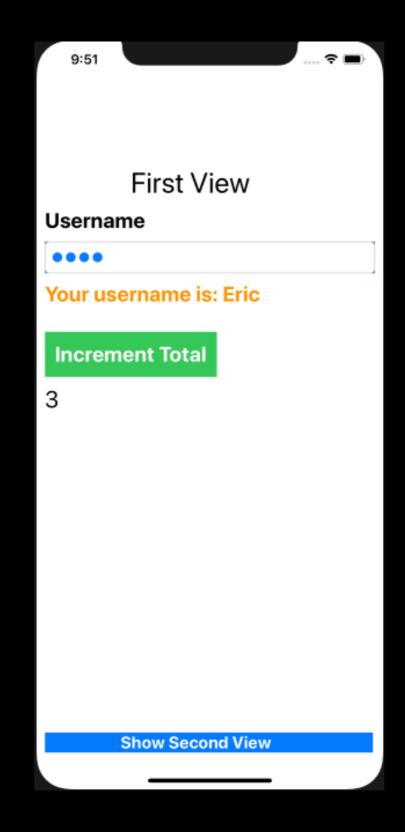
XCUITest framework structure



Test scenarios

```
class MartinezXCUIAsmokeTest: MartinezBaseXCUITestHelper {
ø.
       func testIncrementTotal() {
           given("I launch the App I validate all first view UI element appear") {
                incrementScreenElementValidation()
           }
           when("I enter the default username for testing") {
                typeDefaultUsernanme()
           then("I increment the number to three") {
24
                incrementNumberTest()
           and("I validate that the number has been increased") {
                defaultDataPersist()
       }
\Diamond
       func testNavigateToSeconview() {
           given("I'm on the First View") {
                firstViewValidation()
           when("I navigate to the second view") {
                navigateToSecondView()
           }
           then("I validate that the list of movies appear") {
                validateMoviesInTableView()
           }
            then("I navigate back to the first view") {
                navigateBackToFirstView()
           }
```

First scenario



First view step definitions

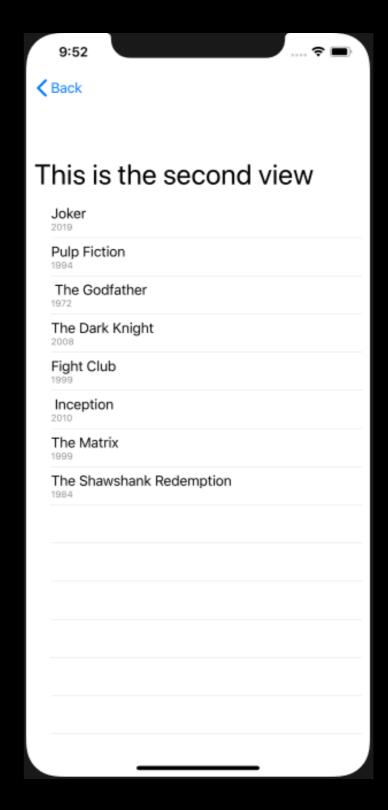
User journey functions

```
Created by Eric Martinez on 1/17/20.
       Copyright @ 2020 emobile. All rights reserved.
   import Foundation
   import XCTest
   extension XCTestCase {
       func typeDefaultUsernanme() {
           application.tapfirstViewTextField(.userName)
           application.typeText(FirstVIewPageHelper.defaultNameEntry.rawValue)
           application.buttons["Return"] .tap() // Soft keyboard event needs its own helper
           assertTrueStaticTexts(text: FirstVIewPageHelper.defaultNameEntryResult.rawValue)
       }
       func incrementScreenElementValidation() {
           assertTrueStaticTexts(text: FirstVIewPageHelper.defaultNumber.rawValue)
           assertTrueButtons(name: FirstVIewPageHelper.incrementTotal.rawValue)
       }
24
       func incrementNumberTest() {
           application.tapfirstViewButton(.incrementTotal)
           application.tapfirstViewButton(.incrementTotal)
           application.tapfirstViewButton(.incrementTotal)
           waiting(for: application.staticTexts["3"])
       }
       func defaultDataPersist() {
           application.tapfirstViewButton(.showSecondView)
           self.waitForElementToAppear(NavigationBarHelper.navBarBackButton.navBarButton(in: application.self)!)
           application.tapNavBarButton(.navBarBackButton)
           assertTrueStaticTexts(text: FirstVIewPageHelper.defaultNameEntryResult.rawValue)
           waiting(for: application.staticTexts["3"])
39 }
```

First view test page helper

```
11 enum FirstVIewPageHelper: String {
        case viewTitle = "
                                        First View"
       case showSecondView = "
                                                    Show Second View
       case incrementTotal = "Increment Total"
       case defaultNumber = "0"
       case userName = "Username"
       case defaultNameEntry = "Eric"
       case defaultNameEntryResult = "Your username is: Eric"
       func firstViewStaticTexts(in application: XCUIApplication) -> XCUIElement? {
            return application.staticTexts[self.rawValue]
        func firstViewButton(in application: XCUIApplication) -> XCUIElement? {
            return application.buttons[self.rawValue]
       func firstViewTextField(in application: XCUIApplication) -> XCUIElement? {
            return application.secureTextFields[self.rawValue]
31 }
   extension XCUIApplication {
        func tapfirstViewStaticTexts(_ firstViewStaticTexts: FirstVIewPageHelper) {
            guard let element = firstViewStaticTexts.firstViewStaticTexts(in: self) else {
                XCTFail("failed to tap static text in Sign In screen")
               return
            element.tap()
        func tapfirstViewButton(_ firstViewButton: FirstVIewPageHelper) {
           guard let element = firstViewButton.firstViewButton(in: self) else {
                XCTFail("failed to tap button in Sign In screen")
                return
            element.tap()
       func tapfirstViewTextField(_ firstViewTextField: FirstVIewPageHelper) {
            guard let element = firstViewTextField.firstViewTextField(in: self) else {
                XCTFail("failed to tap text field in Sign In screen")
                return
           element.tap()
57 }
```

Navigate to second view test



NavBar Helper

```
1 //
       NavigationBarHelper.swift
       SampleUiTest
       Created by Eric Martinez on 1/18/20.
       Copyright @ 2020 emobile. All rights reserved.
   import Foundation
  import XCTest
   enum NavigationBarHelper: String {
       case navBarBackButton = "Back"
       func navBarButton(in application: XCUIApplication) -> XCUIElement? {
           return application.buttons[self.rawValue]
   }
   extension XCUIApplication {
22
       func tapNavBarButton(_ navBarButton: NavigationBarHelper) {
           guard let element = navBarButton.navBarButton(in: self) else {
               XCTFail("failed to tap Navigation bar button")
               return
           element.tap()
29
30 }
```

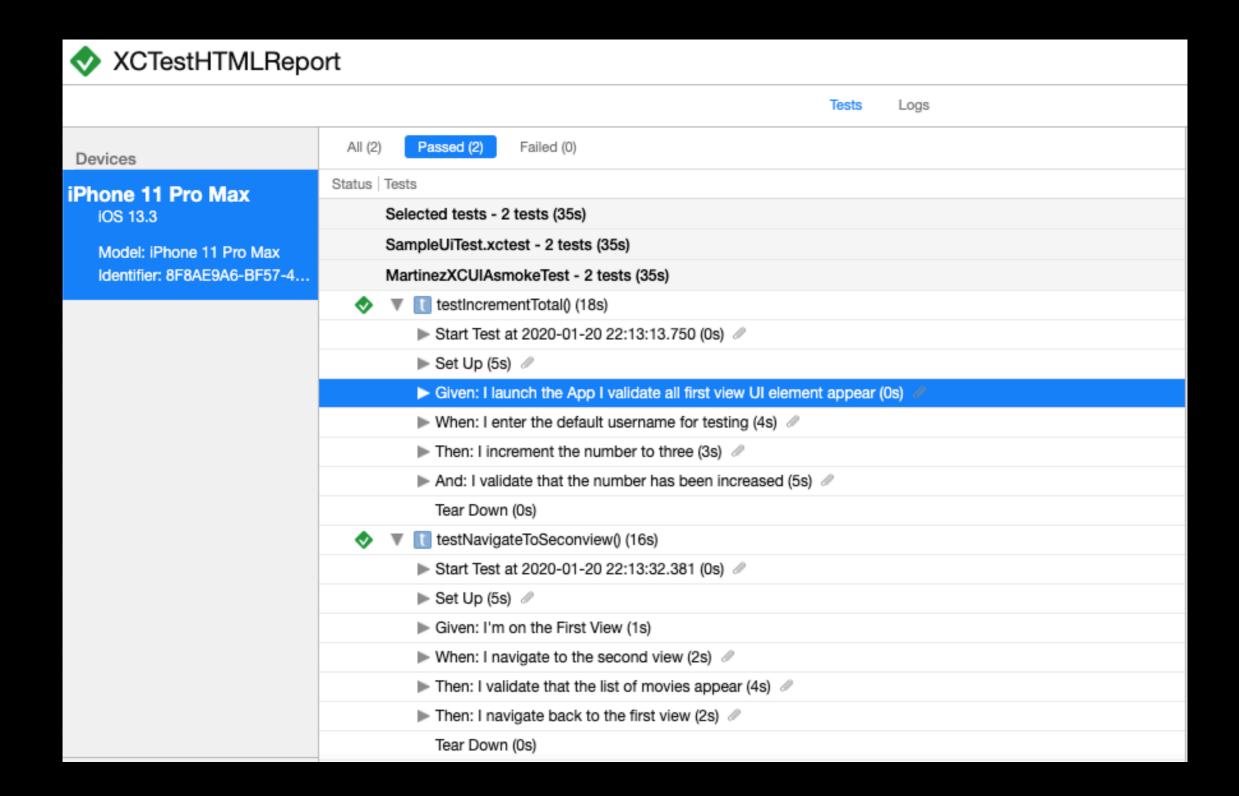
Second view testpage helper

```
12 enum SecondViewPageHelper: String {
       case secondViewTitle = "This is the second view"
       case propertyJoker = "Joker"
       case propertyJokerRelease = "2019"
       func secondViewStaticText(in application: XCUIApplication) -> XCUIElement? {
           return application.staticTexts[self.rawValue]
       }
       func secondViewTableStaticText(in application: XCUIApplication) -> XCUIElement? {
           return application.tables.staticTexts[self.rawValue]
   extension XCUIApplication {
       func tapSecondViewStaticText(_ secondViewStaticText: SecondViewPageHelper) {
           guard let element = secondViewStaticText.secondViewStaticText(in: self) else {
               XCTFail("failed to tap Static text")
               return
           element.tap()
       }
       func findSecondViewTableStaticText(_ secondViewTableStaticText: SecondViewPageHelper) {
           guard let element = secondViewTableStaticText.secondViewTableStaticText(in: self) else {
               XCTFail("failed to find Table Static text")
               return
           }
           element.tap()
       }
43 }
   func assertTrueTablesStaticText(_ movieInTable: String) {
       XCTAssertTrue(application.tables.staticTexts[movieInTable].exists)
47 }
   func movieListInTable() {
       let moviesList = ["Joker", "Pulp Fiction", " The Godfather ", "The Dark Knight ",
                         "Fight Club", " Inception", "The Matrix ", "The Shawshank Redemption "]
       print(moviesList)
       for movie in moviesList {
           assertTrueTablesStaticText(movie)
56 }
```

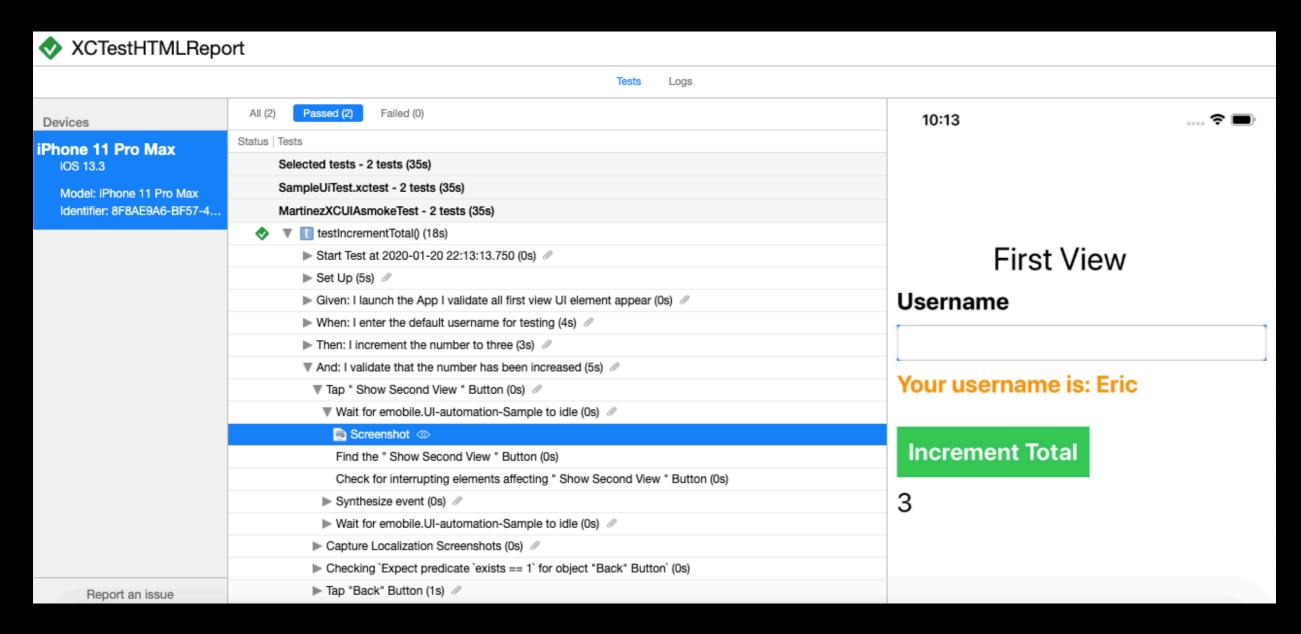
Second view test step definitions

```
Created by Eric Martinez on 1/18/20.
       Copyright @ 2020 emobile. All rights reserved.
   import Foundation
   import XCTest
   extension XCTestCase {
       func firstViewValidation() {
           self.waitForElementToAppear(FirstVIewPageHelper.showSecondView.firstViewButton(in: application.self)!)
       }
       func navigateToSecondView() {
           application.tapfirstViewButton(.showSecondView)
           self.waitForElementToAppear(NavigationBarHelper.navBarBackButton.navBarButton(in: application.self)!)
           assertTrueStaticTexts(text: SecondViewPageHelper.secondViewTitle.rawValue)
       }
       func validateMoviesInTableView() {
           movieListInTable()
           application.findSecondViewTableStaticText(.propertyJoker)
           application.findSecondViewTableStaticText(.propertyJokerRelease)
       }
       func navigateBackToFirstView() {
           application.tapNavBarButton(.navBarBackButton)
           self.waitForElementToAppear(FirstVIewPageHelper.showSecondView.firstViewButton(in: application.self)!)
       }
34 }
```

HTML Report



HTML report test journey screenshots



In the CI we can generate xcpretty reports with graphs for displaying on dashboard

Makefile terminal commands

```
94
      test-ui:
          rm -rf TestResults
 95
          $(XCODEBUILDCMD) test -scheme "SampleUiTest" \
 96
           -sdk iphonesimulator \
 97
           -destination '${SIMULATOR_UITEST}' \
98
           -resultBundlePath TestResults
 99
100
101
      ui-test-report:
102
          xcrun simctl shutdown all
          xchtmlreport -r TestResults
103
           echo "Your Test Report test report is launching on our default browser"
104
           open index.html
105
106
```