

# GUI Test Automation with Appium

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# Agenda

What is Test Automation?

Tools

Appium

Code

Extras



# What is Test Automation?

GUI Testing

API Driven Testing



# GUI Automation Testing

## UI Elements:

- Access
- Identify
- Manipulate



# iOS Automation Tools

UIAutomation - Xcode 7

XCUITest - Xcode 8

Swift/ Objective-C

<http://www.mokacoding.com/blog/xcode-7-ui-testing/>



# Android Automation Tools

Single App UI Test -> Espresso

Multiple Apps UI Test -> UIAutomator

UIAutomator useful links:

- <https://stuff.mit.edu/afs/sipb/project/android/docs/tools/help/uiautomator/UiScrollable.html>
- <https://stuff.mit.edu/afs/sipb/project/android/docs/tools/help/uiautomator/UiSelector.html>

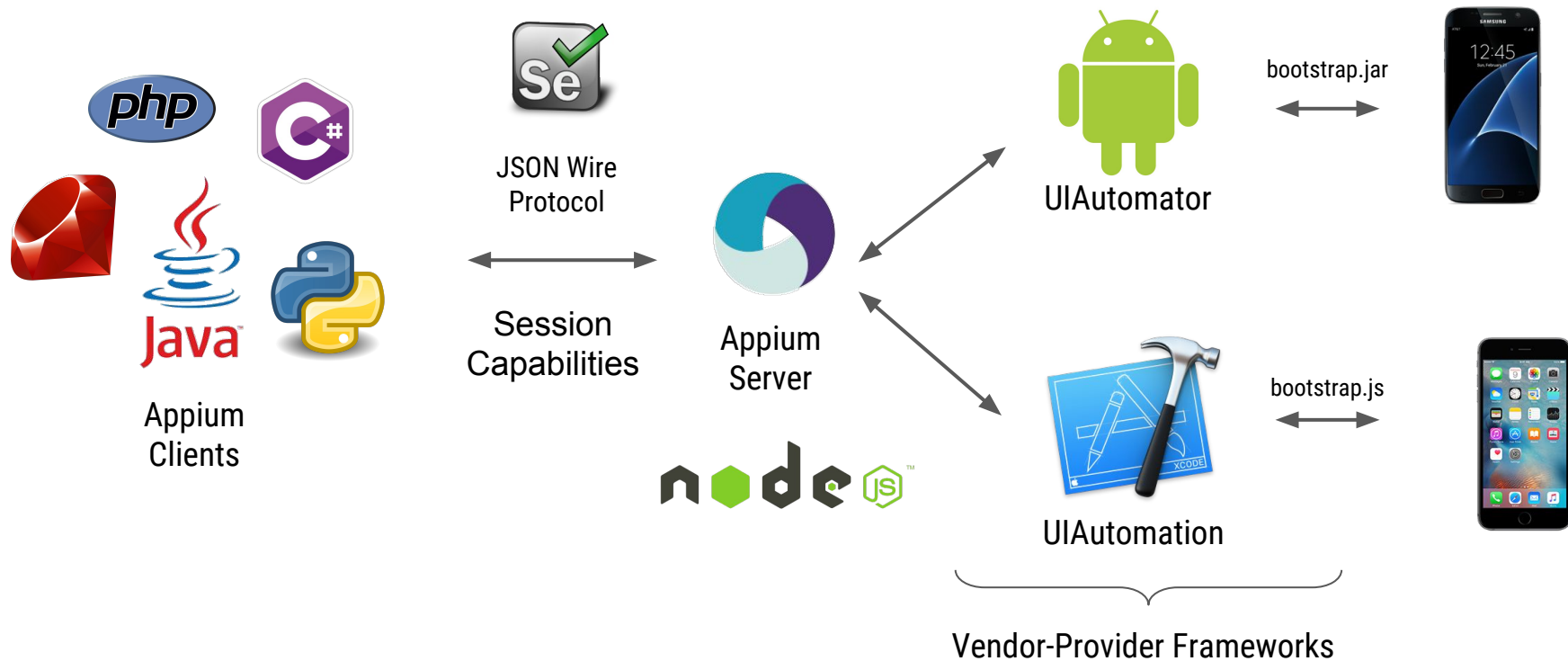


# Appium

<http://appium.io/>



# How does it work?





# Requirements

To create and compile tests:

- IntelliJ or Eclipse
- Maven
- Appium
  - Standalone(Windows - MacOS)
  - Node.js version (All OS)

<http://appium.io/slate/en/master/?ruby#setting-up-appium>

For iOS:

- XCode
- Apple Developer tools

For Android:

- [Android SDK](#)

Talk is cheap

Show me the

**CODE**

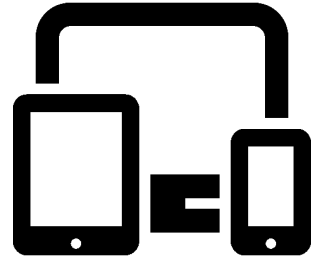
# Extras



# Jenkins



appium




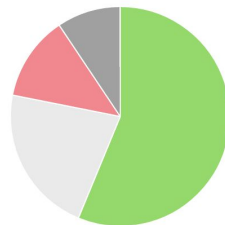
# TestRail integration

@TestRailID(ids = {310305})

@Test

```
public void testReservationDetails() throws Exception {  
    environmentPrecondition.selectedEnvironment(Environment.STAGE);  
    MobileUser loggedInUser = userPrecondition.loggedInUser(VALID_USER);  
    Reservation reservation = loggedInUser.getReservation(VALID_RESERVATION);  
    ....  
}
```

 This test run is completed. You can no longer modify this test run or add new test results.



**18 Passed**  
56% set to Passed

**0 Blocked**  
0% set to Blocked

**0 Retest**  
0% set to Retest

**4 Failed**  
13% set to Failed

**3 N/A**  
9% set to N/A

**0 Pass with Warning**  
0% set to Pass with Warning

**56%  
passed**

7 / 32 untested (22%).

Sort: Section | Filter: None

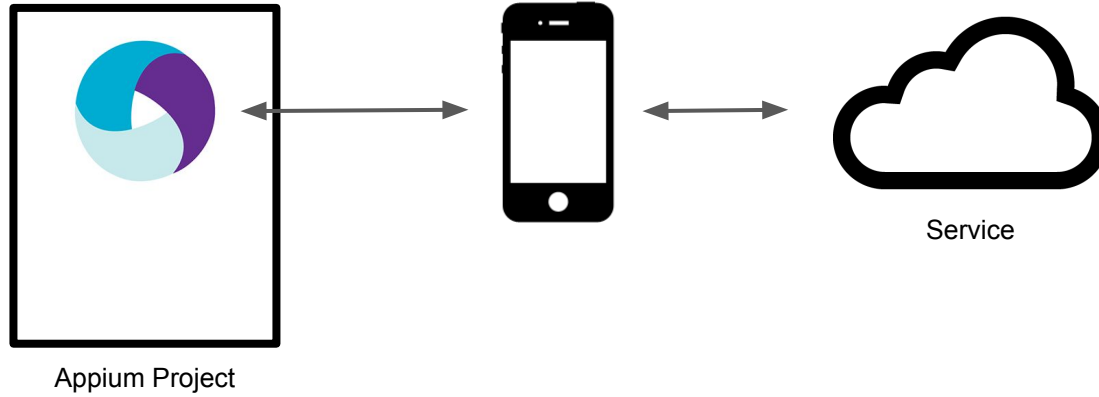
Columns

MyResort\_eServices (32)

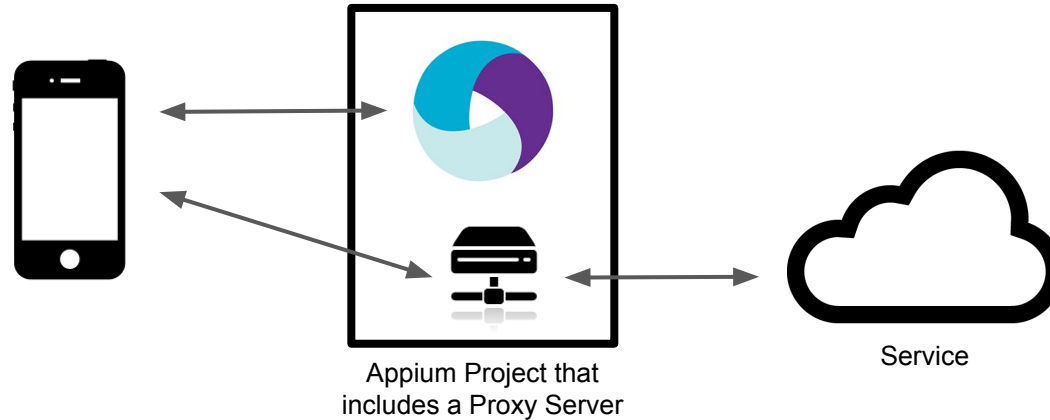
ID	Title	Assigned To	Status	
T1345117	Verify Guest can log in the sample app		Passed	
T1345130	Verify Guest cannot sign in using invalid credentials		Passed	
T1345118	Verify Guest party section on the reservation page		Passed	
T1345126	Verify that Magic Band CTA shows only for future reservations and redirects to wdw link in de...		Passed	
T1345121	Verify that guests can use accessibility for my reservation page		N/A	
T1345120	Verify analytics information for the my reservation details page		N/A	
T1345119	Guest should see an error message in the reservation details screen, when there is some pro...		Passed	
T1345122	Verify that guests can see reservation details displayed on My Resort Screen		Failed	
T1345123	Guest should be able to tap on Find on Map button, and see a map and a pin with hotel locati...		Failed	
T1345124	Verify that Guest should can tap the Get directions CTA and go to the resort lobby		Untested	
T1345125	Verify that Guest can tap on "call" CTA on my reservation page and be able to place a call to ...		N/A	
T1345127	Guest should be able to see reservation details on My Resort Screen (Multiple Rooms Booked)		Passed	
T1345128	Guest should be able to call to the DRC number by tapping Call CTA		Untested	

# Hermetic Servers

Normal Approach



New Approach



<https://github.com/franvis/AppiumTechTalk>

Questions?

