Certification Project

Problem Statement

edureka!

Business challenge/requirement

Atlas corp. is a test automation company who have got two new projects to test out new Cure.fit and Myntra Mobile applications on android. Atlas uses Appium to test all their mobile testing related projects.

Cure.fit application is built on react native technology, which helps its Web-view architecture look and work like a Native application. The company requires a testing platform, which can test their application regardless of what technology the application uses behind the interface.

Myntra is a hybrid e-commerce application, which has different views to test. The company needs a single testing platform, which can test both the Native and Web-view aspects of the application. Testing will require frequent changes in the context views, performing different touch gestures, interacting with various android as well as web-view elements, and so on.

Objective

Appium can test all the required aspects of both the applications. At a time, it can test on multiple platforms as well as multiple devices. Using Appium along with a framework like TestNG will help both the organisations to test their projects. This project requires testing Cure.fit and Myntra applications on the android platform.

Use Cases

This project should cover following Appium features

- How to identify mobile elements?
- How to use synchronisation in automation?
- How to use TestNG annotations and parallel execution?
- How to perform different kinds of Actions/gestures, key events and app interaction?
- How to manage network configuration using Appium?
- How to handle native and web view screen?

Application to Test

- Cure.fit app
- Myntra app

Challenges

Myntra app:

- Challenge 1: Write an Appium Script using TestNG - Collect the performance data at 3 random points (cpu, memory, network traffic, and battery) while performing below steps
  - Search for "Nike Shoes"
  - Add the first displayed product to the bag
  - Reach the payment screen
- Challenge 2: Write an Appium Script to search an item by uploading a photo to Myntra app

- Challenge 3: Write an Appium Script "Search for "Nike Shoes" and add first displayed product to the bag and navigate to payment screen" in the mobile chrome browser

Cure.fit app:

- Challenge 4: Write an Appium Script "Perform application management task such as send the app to background and bring back and kill the app"
- Challenge 5: Verify that downloaded Cult fit at home video is starting when the internet is off
- Challenge 6: Write an Appium test script to verify the Total Payable amount at checkout screen for single food order on multiple devices

Note: Since both the applications are production versions of the applications, we cannot test switching contexts within the application. Hence Challenge#3 consists of demo on chrome browser which requires testing the web app.

Steps for executing the solution:

Challenge 1:

- Login to app
- Click on Search lens
- Type Nike Shoes and search
- Long press on the first displayed product
- Select first displayed item
- Swipe for two times
- Tap on displayed image
- Zoom In and out displayed image and press X
- Tap on Wishlist
- Assert Wishlist changed the button text
- Tap on Wish listed button
- Tap on Move to Bag
- Select first size and press done
- Assert added item count on the bag icon
- Tap on Bag

Challenge 2:

- Launch the app
- Login to app
- Copy an image to the device
- Tap on Search Lens
- Select Camera Icon
- Select the uploaded image and verify Search result
- Terminate the app

Challenge 3:

- Launch site in mobile browser
- Login to site

- Search for Nike Shoes
- Select the first product
- Tap on Add to Bag
- Select the size and tap on the Confirm button
- Tap on Go to Bag
- Tap on Place order
- Check added address
- Tap on Continue button
- Tap on NetBanking
- Tap on Axis Bank

Challenge 4:

- Launch app
- Login to the app
- Send app to the background and bring it back
- Check the app state
- Now terminate the app

Challenge 5:

- Launch app
- Login to app
- Tap to Cult button
- Tap to At Home tab
- Scroll down to "Workout from Home" section
- Tap on downloaded workout
- Off all network
- Tap on First Start button
- Verify that video is started or not
- Terminate the app

Challenge 6:

- Launch app
- Login to app
- Navigate to Cult
- Tap on Unlimited Pack widget
- Select Center and Start Date
- Click on Get Pack
- Assert amount displayed in pink color