**1.Instagram - Registration, Login**

package testautomation;

import io.appium.java\_client.MobileElement;

import io.appium.java\_client.android.AndroidDriver;

import io.appium.java\_client.remote.MobileCapabilityType;

import org.openqa.selenium.remote.DesiredCapabilities;

import org.testng.Assert;

import org.testng.Reporter;

import org.testng.annotations.\*;

import java.net.MalformedURLException;

import java.net.URL;

import java.util.concurrent.TimeUnit;

public class InstagramTests {

AndroidDriver<MobileElement> driver;

@BeforeClass

public void setup() throws MalformedURLException {

DesiredCapabilities caps = new DesiredCapabilities();

caps.setCapability(MobileCapabilityType.PLATFORM\_NAME, "Android");

caps.setCapability(MobileCapabilityType.DEVICE\_NAME, "emulator-5554");

caps.setCapability(MobileCapabilityType.APP, "path\_to\_instagram\_apk");

caps.setCapability(MobileCapabilityType.AUTOMATION\_NAME, "UiAutomator2");

driver = new AndroidDriver<>(new URL("http://localhost:4723/wd/hub"), caps);

driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);

}

@Test(priority = 1)

public void registerInstagram() {

driver.findElementById("com.instagram.android:id/sign\_up").click();

driver.findElementById("com.instagram.android:id/email\_or\_phone").sendKeys("testuser@gmail.com");

driver.findElementById("com.instagram.android:id/full\_name").sendKeys("Test User");

driver.findElementById("com.instagram.android:id/username").sendKeys("testuser123");

driver.findElementById("com.instagram.android:id/password").sendKeys("Test@12345");

driver.findElementById("com.instagram.android:id/signup\_button").click();

// Validate registration success

try {

Thread.sleep(5000);

MobileElement homeIcon = driver.findElementById("com.instagram.android:id/home\_tab");

Assert.assertTrue(homeIcon.isDisplayed(), "Registration Failed");

Reporter.log("Registration Successful");

} catch (Exception e) {

Reporter.log("Registration Failed");

}

}

@Test(priority = 2)

public void loginInstagram() {

driver.findElementById("com.instagram.android:id/login\_button").click();

driver.findElementById("com.instagram.android:id/username").sendKeys("testuser123");

driver.findElementById("com.instagram.android:id/password").sendKeys("Test@12345");

driver.findElementById("com.instagram.android:id/login\_submit").click();

// Validate login success

try {

Thread.sleep(5000);

MobileElement profileIcon = driver.findElementById("com.instagram.android:id/profile\_tab");

Assert.assertTrue(profileIcon.isDisplayed(), "Login Failed");

Reporter.log("Login Successful");

} catch (Exception e) {

Reporter.log("Login Failed");

}

}

@AfterClass

public void teardown() {

driver.quit();

}

}

**2. Amazon - Login, Add to Cart, Search**

package testautomation;

import io.appium.java\_client.MobileElement;

import io.appium.java\_client.android.AndroidDriver;

import io.appium.java\_client.remote.MobileCapabilityType;

import org.openqa.selenium.remote.DesiredCapabilities;

import org.testng.Assert;

import org.testng.Reporter;

import org.testng.annotations.\*;

import java.net.MalformedURLException;

import java.net.URL;

import java.util.concurrent.TimeUnit;

public class MobileTests {

AndroidDriver<MobileElement> driver;

@BeforeClass

public void setup() throws MalformedURLException {

DesiredCapabilities caps = new DesiredCapabilities();

caps.setCapability(MobileCapabilityType.PLATFORM\_NAME, "Android");

caps.setCapability(MobileCapabilityType.DEVICE\_NAME, "emulator-5554");

caps.setCapability(MobileCapabilityType.APP, "path\_to\_apk");

caps.setCapability(MobileCapabilityType.AUTOMATION\_NAME, "UiAutomator2");

driver = new AndroidDriver<>(new URL("http://localhost:4723/wd/hub"), caps);

driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);

}

@Test(priority = 1)

public void loginAmazon() {

driver.findElementById("com.amazon.mShop.android.shopping:id/sign\_in\_button").click();

driver.findElementById("ap\_email").sendKeys("testuser@gmail.com");

driver.findElementById("continue").click();

driver.findElementById("ap\_password").sendKeys("Test@12345");

driver.findElementById("signInSubmit").click();

// Validate login

try {

Thread.sleep(5000);

MobileElement accountName = driver.findElementById("com.amazon.mShop.android.shopping:id/chrome\_action\_bar\_burger\_icon");

Assert.assertTrue(accountName.isDisplayed(), "Login Failed");

Reporter.log("Login Successful");

} catch (Exception e) {

Reporter.log("Login Failed");

}

}

@Test(priority = 2)

public void addToCart() {

driver.findElementById("com.amazon.mShop.android.shopping:id/rs\_search\_src\_text").sendKeys("Laptop");

driver.findElementById("com.amazon.mShop.android.shopping:id/rs\_search\_src\_text").submit();

driver.findElementsByClassName("android.widget.TextView").get(1).click();

driver.findElementById("add-to-cart-button").click();

// Validate add to cart

try {

Thread.sleep(5000);

MobileElement cartCount = driver.findElementById("com.amazon.mShop.android.shopping:id/action\_bar\_cart\_count");

Assert.assertTrue(Integer.parseInt(cartCount.getText()) > 0, "Add to Cart Failed");

Reporter.log("Item Added to Cart Successfully");

} catch (Exception e) {

Reporter.log("Add to Cart Failed");

}

}

@AfterClass

public void teardown() {

driver.quit();

}

}

**3.TopsCareerCenter - Login, Download Assignments, Upload Reviews**

package testautomation;

import io.appium.java\_client.MobileElement;

import io.appium.java\_client.android.AndroidDriver;

import io.appium.java\_client.remote.MobileCapabilityType;

import org.openqa.selenium.remote.DesiredCapabilities;

import org.testng.Assert;

import org.testng.Reporter;

import org.testng.annotations.\*;

import java.net.MalformedURLException;

import java.net.URL;

import java.util.concurrent.TimeUnit;

public class TopsCareerCenterTests {

AndroidDriver<MobileElement> driver;

@BeforeClass

public void setup() throws MalformedURLException {

DesiredCapabilities caps = new DesiredCapabilities();

caps.setCapability(MobileCapabilityType.PLATFORM\_NAME, "Android");

caps.setCapability(MobileCapabilityType.DEVICE\_NAME, "emulator-5554");

caps.setCapability(MobileCapabilityType.APP, "path\_to\_tops\_career\_center\_apk");

caps.setCapability(MobileCapabilityType.AUTOMATION\_NAME, "UiAutomator2");

driver = new AndroidDriver<>(new URL("http://localhost:4723/wd/hub"), caps);

driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);

}

@Test(priority = 1)

public void loginTopsCareerCenter() {

driver.findElementById("com.topscareercenter:id/login\_button").click();

driver.findElementById("com.topscareercenter:id/username").sendKeys("testuser");

driver.findElementById("com.topscareercenter:id/password").sendKeys("Test@12345");

driver.findElementById("com.topscareercenter:id/login\_submit").click();

// Validate login

try {

Thread.sleep(5000);

MobileElement dashboard = driver.findElementById("com.topscareercenter:id/dashboard");

Assert.assertTrue(dashboard.isDisplayed(), "Login Failed");

Reporter.log("Login Successful");

} catch (Exception e) {

Reporter.log("Login Failed");

}

}

@Test(priority = 2)

public void downloadAssignment() {

driver.findElementById("com.topscareercenter:id/assignments\_tab").click();

driver.findElementById("com.topscareercenter:id/download\_assignment").click();

driver.findElementById("com.topscareercenter:id/download\_project").click();

Reporter.log("Assignment and Project Downloaded Successfully");

}

@Test(priority = 3)

public void uploadReviewImage() {

driver.findElementById("com.topscareercenter:id/reviews\_tab").click();

MobileElement uploadElement = driver.findElementById("com.topscareercenter:id/upload\_review\_image");

uploadElement.sendKeys("/storage/emulated/0/Download/review\_image.jpg");

driver.findElementById("com.topscareercenter:id/submit\_review").click();

Reporter.log("Review Image Uploaded Successfully");

}

@AfterClass

public void teardown() {

driver.quit();

}

}