Project Implementation steps:

1. install jenkins on local machine (via docker)

2. setup jenkins ( maven ,java)

3. start emulators

4. Create your project in eclipse = testsng +appium +.....

5. write some test cases (3)for AUT ( application under test)

6. push your code in github

7. from jenkins download your code (via git)

8. run you project from jenkins

**GITHUB Link:** https://github.com/BhumikaDureja/Phase4Project\_MobileAutomation.git

**Screenshots of Project**

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application

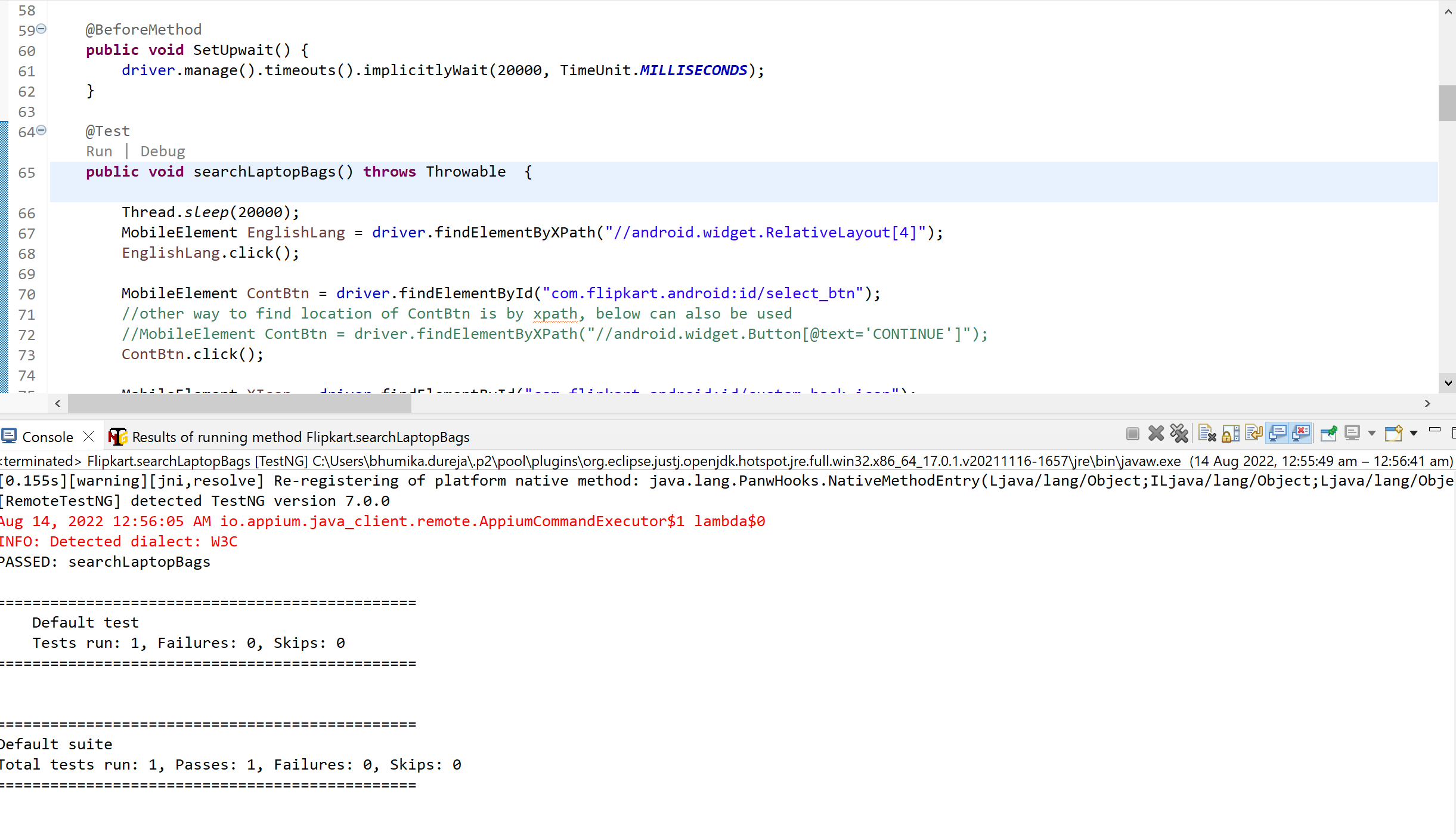
Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

**Flipkart App Results**

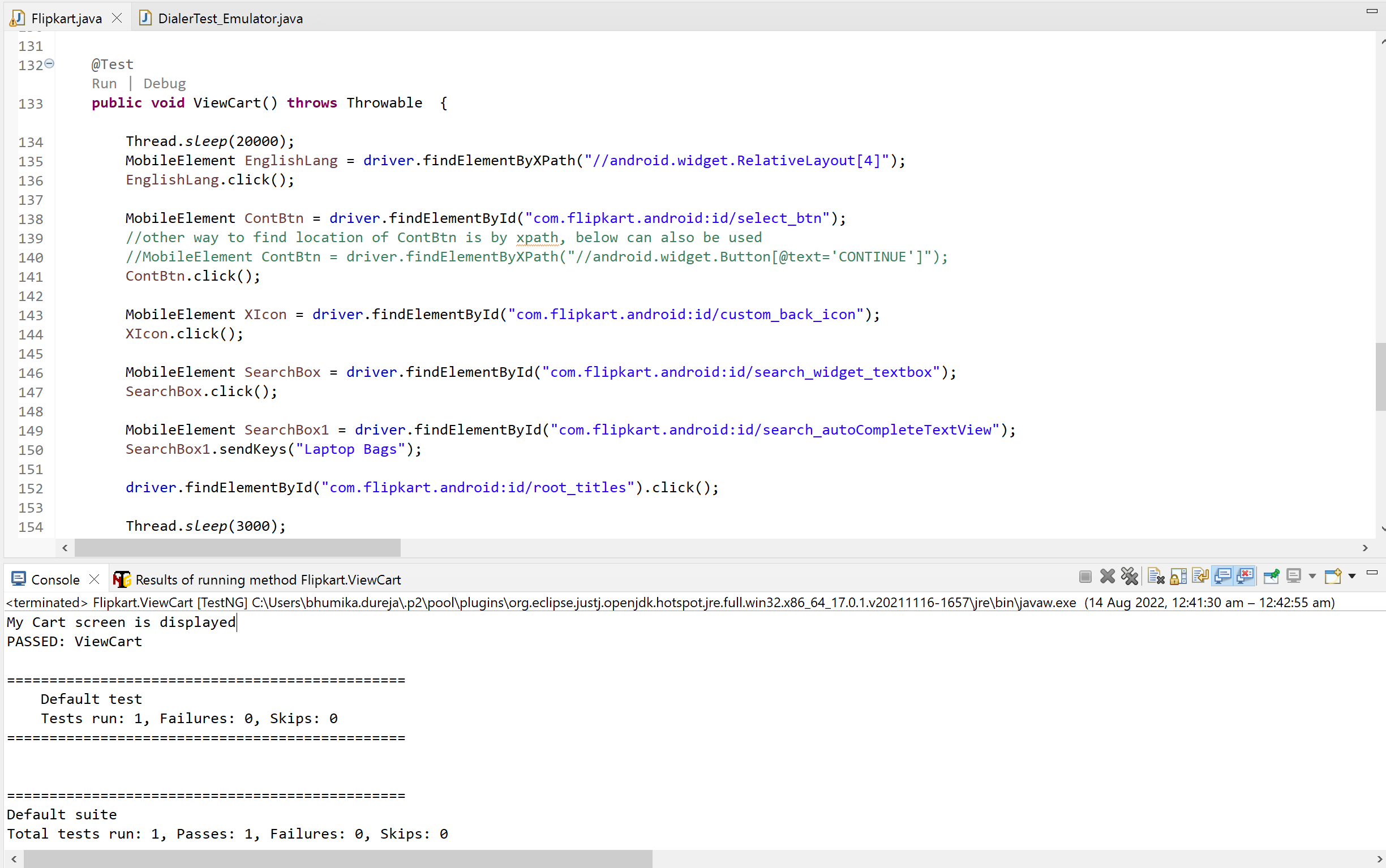
Test 1 – Search for Laptop Bags



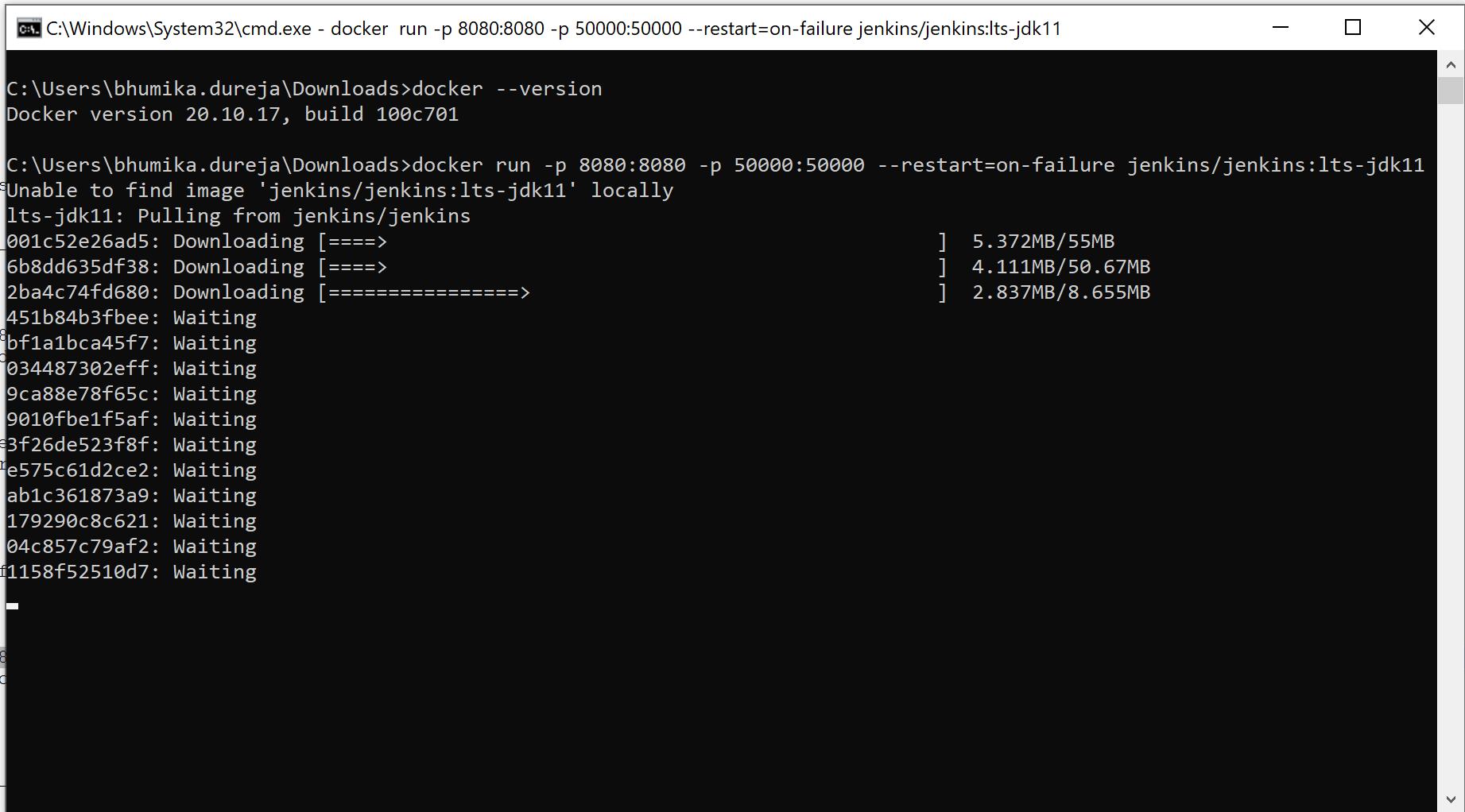
Test 2 – Add Laptop Bag to Cart

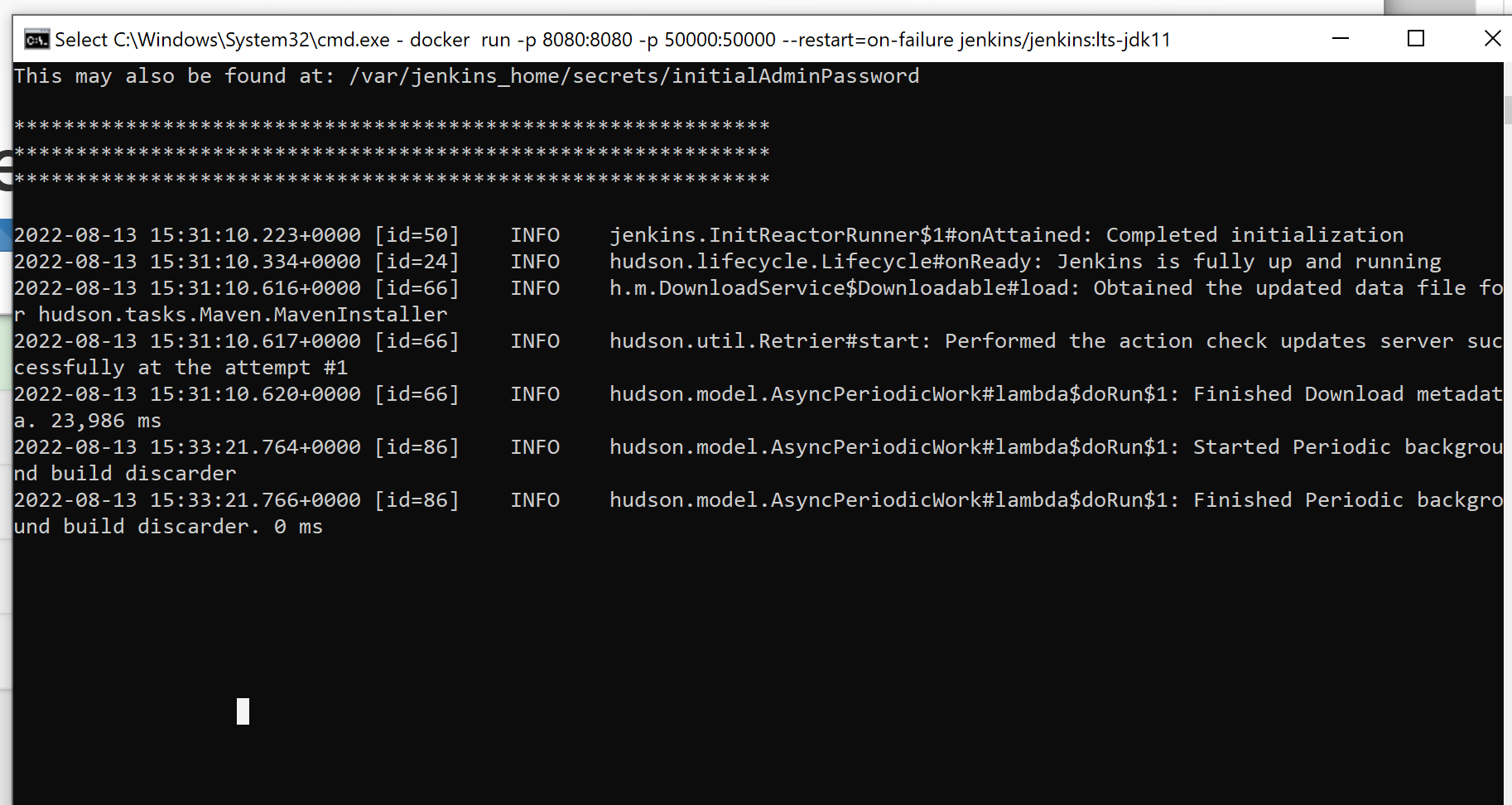


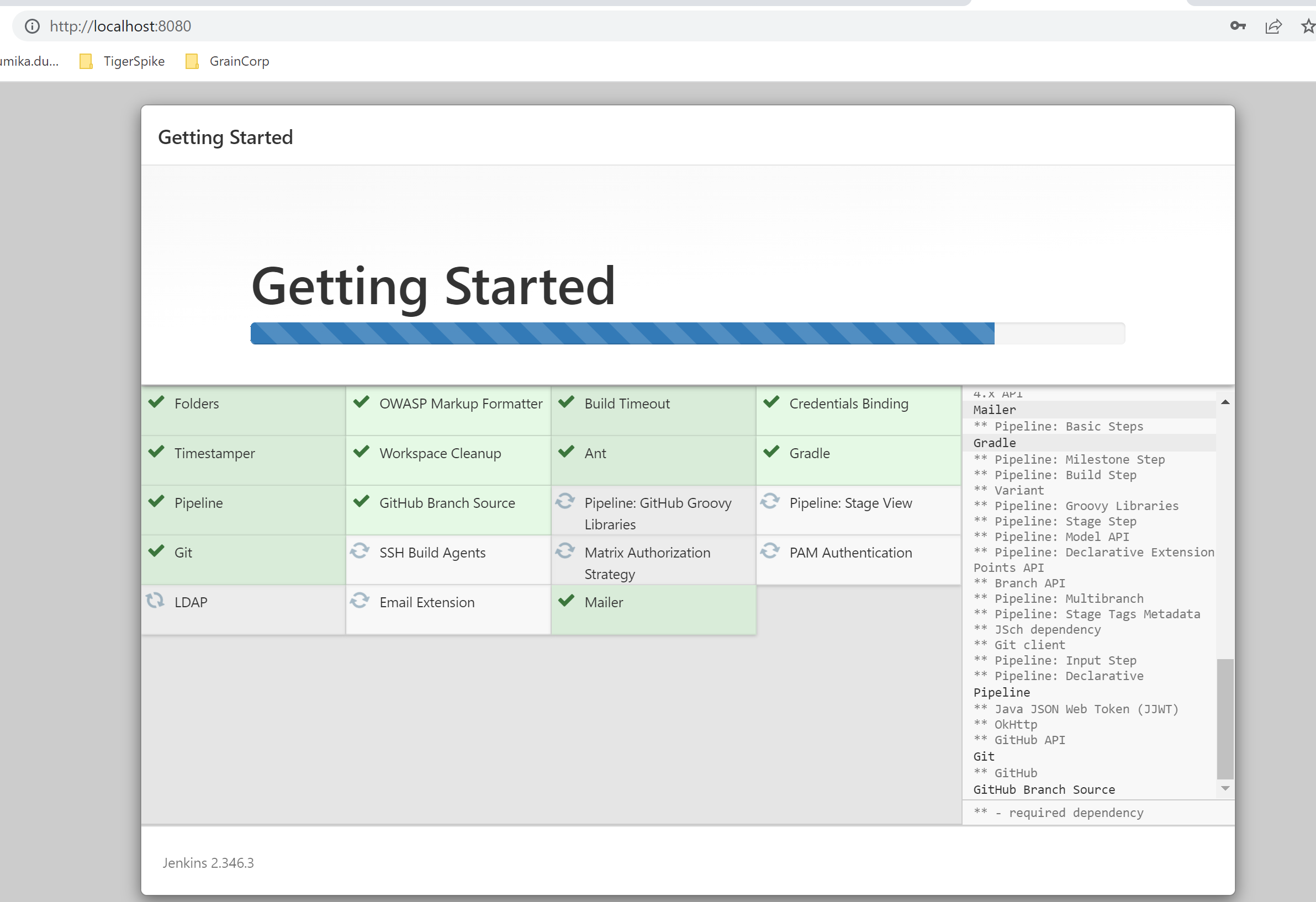
Test 3 – View Cart



**Installing Jenkins on local machine (via docker)**







Graphical user interface, application

Description automatically generated

**Running job on jenkins**

Graphical user interface, text, application, email

Description automatically generated

**SOURCE CODE**

package com.simplilearn.Phase4Project;

import io.appium.java\_client.MobileElement;

import io.appium.java\_client.TouchAction;

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

import io.appium.java\_client.TouchAction;

import io.appium.java\_client.touch.offset.PointOption;

import java.awt.Frame;

import java.net.MalformedURLException;

import java.net.URL;

import java.util.List;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.Alert;

import org.openqa.selenium.By;

import org.openqa.selenium.Keys;

import org.openqa.selenium.Point;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.interactions.Actions;

import org.openqa.selenium.remote.DesiredCapabilities;

import org.testng.Assert;

import org.testng.annotations.AfterMethod;

import org.testng.annotations.AfterTest;

import org.testng.annotations.BeforeMethod;

import org.testng.annotations.BeforeTest;

import org.testng.annotations.Test;

public class Flipkart {

private AndroidDriver<MobileElement> driver;

TouchAction touchAction;

@BeforeTest

public void setUp() throws MalformedURLException {

DesiredCapabilities desiredCapabilities = new DesiredCapabilities();

desiredCapabilities.setCapability("platformName", "Android");

desiredCapabilities.setCapability("appium:platformVersion", "7.1.1");

desiredCapabilities.setCapability("appium:deviceName", "Android SDK built for x86");

desiredCapabilities.setCapability("appium:app", "C:\\Users\\bhumika.dureja\\Downloads\\Flipkart-7.18(1).apk");

desiredCapabilities.setCapability("appium:ensureWebviewsHavePages", true);

desiredCapabilities.setCapability("appium:nativeWebScreenshot", true);

desiredCapabilities.setCapability("appium:newCommandTimeout", 3600);

desiredCapabilities.setCapability("appium:connectHardwareKeyboard", true);

URL remoteUrl = new URL("http://localhost:4723/wd/hub");

driver = new AndroidDriver<MobileElement>(remoteUrl, desiredCapabilities);

touchAction = new TouchAction(driver);

// System.out.println(driver.getSessionId());

}

@Test

public void searchLaptopBags() throws Throwable {

Thread.sleep(20000);

MobileElement EnglishLang = driver.findElementByXPath("//android.widget.RelativeLayout[4]");

EnglishLang.click();

MobileElement ContBtn = driver.findElementById("com.flipkart.android:id/select\_btn");

//other way to find location of ContBtn is by xpath, below can also be used

//MobileElement ContBtn = driver.findElementByXPath("//android.widget.Button[@text='CONTINUE']");

ContBtn.click();

MobileElement XIcon = driver.findElementById("com.flipkart.android:id/custom\_back\_icon");

XIcon.click();

MobileElement SearchBox = driver.findElementById("com.flipkart.android:id/search\_widget\_textbox");

SearchBox.click();

MobileElement SearchBox1 = driver.findElementById("com.flipkart.android:id/search\_autoCompleteTextView");

SearchBox1.sendKeys("Laptop Bags");

driver.findElementById("com.flipkart.android:id/root\_titles").click();

// Actions action=new Actions(driver);

// action.sendKeys(Keys.ENTER).build().perform();

Thread.sleep(3000);

}

@Test

public void AddBagToCart() throws Throwable {

Thread.sleep(20000);

MobileElement EnglishLang = driver.findElementByXPath("//android.widget.RelativeLayout[4]");

EnglishLang.click();

MobileElement ContBtn = driver.findElementById("com.flipkart.android:id/select\_btn");

//other way to find location of ContBtn is by xpath, below can also be used

//MobileElement ContBtn = driver.findElementByXPath("//android.widget.Button[@text='CONTINUE']");

ContBtn.click();

MobileElement XIcon = driver.findElementById("com.flipkart.android:id/custom\_back\_icon");

XIcon.click();

MobileElement SearchBox = driver.findElementById("com.flipkart.android:id/search\_widget\_textbox");

SearchBox.click();

MobileElement SearchBox1 = driver.findElementById("com.flipkart.android:id/search\_autoCompleteTextView");

SearchBox1.sendKeys("Laptop Bags");

driver.findElementById("com.flipkart.android:id/root\_titles").click();

Thread.sleep(3000);

// driver.switchTo().frame(0);

driver.findElementById("com.flipkart.android:id/not\_now\_button").click();

Thread.sleep(3000);

touchAction.tap(PointOption.point(128, 338)).perform();

Thread.sleep(2000);

// String BagName = driver.findElementByXPath("//android.widget.TextView[@text = 'DUTY FREE']").getText();

// System.out.println("BagName : " + BagName);

MobileElement AddToCartBtn = driver.findElementByXPath("//android.widget.TextView[@text='ADD TO CART']");

AddToCartBtn.click();

Thread.sleep(2000);

}

@Test

public void ViewCart() throws Throwable {

Thread.sleep(20000);

MobileElement EnglishLang = driver.findElementByXPath("//android.widget.RelativeLayout[4]");

EnglishLang.click();

MobileElement ContBtn = driver.findElementById("com.flipkart.android:id/select\_btn");

//other way to find location of ContBtn is by xpath, below can also be used

//MobileElement ContBtn = driver.findElementByXPath("//android.widget.Button[@text='CONTINUE']");

ContBtn.click();

MobileElement XIcon = driver.findElementById("com.flipkart.android:id/custom\_back\_icon");

XIcon.click();

MobileElement SearchBox = driver.findElementById("com.flipkart.android:id/search\_widget\_textbox");

SearchBox.click();

MobileElement SearchBox1 = driver.findElementById("com.flipkart.android:id/search\_autoCompleteTextView");

SearchBox1.sendKeys("Laptop Bags");

driver.findElementById("com.flipkart.android:id/root\_titles").click();

Thread.sleep(3000);

driver.findElementById("com.flipkart.android:id/not\_now\_button").click();

Thread.sleep(3000);

touchAction.tap(PointOption.point(128, 338)).perform();

Thread.sleep(2000);

// String BagName = driver.findElementByXPath("//android.widget.TextView[@text = 'DUTY FREE']").getText();

// String BagName = driver.findElementByXPath("/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/androidx.drawerlayout.widget.DrawerLayout/android.view.ViewGroup/android.widget.FrameLayout/android.widget.FrameLayout/android.widget.FrameLayout[1]/android.view.ViewGroup/android.view.ViewGroup[1]/android.widget.ScrollView/android.view.ViewGroup/android.view.ViewGroup/android.view.ViewGroup[1]/android.view.ViewGroup/android.view.ViewGroup[1]/android.view.ViewGroup[1]/android.widget.TextView[1]").getText();

// System.out.println("BagName : " + BagName);

MobileElement AddToCartBtn = driver.findElementByXPath("//android.widget.TextView[@text='ADD TO CART']");

AddToCartBtn.click();

Thread.sleep(2000);

MobileElement GoToCartBtn = driver.findElementByXPath("//android.widget.TextView[@text='GO TO CART']");

GoToCartBtn.click();

String CartScreen = driver.findElementByXPath("//android.widget.TextView[@text='My Cart']").getText();

Assert.assertEquals("My Cart", CartScreen);

System.out.println("My Cart screen is displayed");

// String BagNameOnMyCart = driver.findElementByXPath("//android.widget.TextView[@text='DUTY FREE 032-Laptop Backpack 40 L Laptop Backpack'").getText();

// String BagNameOnMyCart = driver.findElementByXPath("/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/androidx.drawerlayout.widget.DrawerLayout/android.view.ViewGroup/android.widget.FrameLayout/android.widget.FrameLayout/android.widget.FrameLayout[2]/android.view.ViewGroup/android.view.ViewGroup[1]/android.widget.ScrollView/android.view.ViewGroup/android.view.ViewGroup/android.view.ViewGroup[2]/android.view.ViewGroup/android.view.ViewGroup[3]/android.widget.TextView[1]").getText();

// System.out.println("BagName on My Cart screen : " + BagNameOnMyCart);

// Assert.assertEquals(BagNameOnMyCart.contains(BagName), true);

}

@AfterTest

public void tearDown() {

driver.quit();

}

}