Automate an E-Commerce Web Application

SOURCE CODE:

Pom.xml :

```xml
<?xml version="1.0" encoding="UTF-8"?>

<projectxmlns="http://maven.apache.org/POM/4.0.0"xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">
<modelVersion>4.0.0</modelVersion>

<groupId>com</groupId>
<artifactId>AutomateE-CommerceProject</artifactId>
<version>0.0.1-SNAPSHOT</version>
<packaging>war</packaging>

<name>AutomateE-CommerceProject Maven Webapp</name>
<!-- FIXME change it to the project's website -->
<url>http://www.example.com</url>

<properties>
<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
<maven.compiler.source>1.7</maven.compiler.source>
<maven.compiler.target>1.7</maven.compiler.target>
</properties>

<dependencies>
<dependency>
<groupId>junit</groupId>
<artifactId>junit</artifactId>
<version>4.11</version>
<scope>test</scope>
</dependency>
<dependency>
<groupId>org.seleniumhq.selenium</groupId>
<artifactId>selenium-server</artifactId>
<version>3.141.59</version>
</dependency>
<dependency>
<groupId>junit</groupId>
<artifactId>junit</artifactId>
<version>4.12</version>
<scope>test</scope>
</dependency>

<dependency>
      <groupId>io.github.bonigarcia</groupId>
      <artifactId>webdrivermanager</artifactId>
      <version>5.4.0</version>
      </dependency>

</dependencies>

<build>
<finalName>AutomateE-CommerceProject</finalName>
```

```xml
<pluginManagement><!-- lock down plugins versions to avoid using Maven
defaults (may be moved to parent pom) -->
<plugins>
<plugin>
<artifactId>maven-clean-plugin</artifactId>
<version>3.1.0</version>
</plugin>
<!-- see http://maven.apache.org/ref/current/maven-core/default-
bindings.html#Plugin_bindings_for_war_packaging -->
<plugin>
<artifactId>maven-resources-plugin</artifactId>
<version>3.0.2</version>
</plugin>
<plugin>
<artifactId>maven-compiler-plugin</artifactId>
<version>3.8.0</version>
</plugin>
<plugin>
<artifactId>maven-surefire-plugin</artifactId>
<version>2.22.1</version>
</plugin>
<plugin>
<artifactId>maven-war-plugin</artifactId>
<version>3.2.2</version>
</plugin>
<plugin>
<artifactId>maven-install-plugin</artifactId>
<version>2.5.2</version>
</plugin>
<plugin>
<artifactId>maven-deploy-plugin</artifactId>
<version>2.8.2</version>
</plugin>
</plugins>
</pluginManagement>
</build>
</project>
```

Testing.xml :

```xml
<?xmlversion="1.0"encoding="UTF-8"?>
<!DOCTYPEsuiteSYSTEM"https://testng.org/testng-1.0.dtd">
<suitename="Suite">
<testthread-count="5"name="Test">
<classes>
<classname="com.example.NewTest"/>
</classes>
</test><!-- Test -->
</suite><!-- Suite -->
```

NewTest.java:

```java
package com.example;


import static org.junit.Assert.assertNotNull;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;

import io.github.bonigarcia.wdm.WebDriverManager;


public class NewTest {
     WebDriver wd=null;
    @BeforeTest
    public void init() {
        WebDriverManager.chromedriver().setup();
    wd=new ChromeDriver();
    wd.manage().window().maximize();
    wd.get("https://www.flipkart.com/");
    }
@Test(priority = 1)


public void searchthePagewithelement() throws InterruptedException {
    JavascriptExecutor js=(JavascriptExecutor)wd;


    wd.manage().timeouts().pageLoadTimeout(5000,TimeUnit.MILLISECONDS);
    wd.findElement(By.xpath("/html/body/div[2]/div/div/button")).click();
    Thread.sleep(2000);
    wd.findElement(By.name("q")).sendKeys("iPhone 13");
    wd.manage().timeouts().implicitlyWait(1000, TimeUnit.MILLISECONDS);
    wd.findElement(By.name("q")).submit();
    wd.manage().timeouts().implicitlyWait(1000, TimeUnit.MILLISECONDS);
    WebElement we=wd.findElement(By.linkText("YouTube"));
js.executeScript("arguments[0].scrollIntoView()"+we);
assertNotNull(we);
System.out.println("got the element"+we);


  }
}
```