Handling the Test Data and Executing It in Multiple Environments for Bus Ticket Booking Application.

Description

Create a TestNG framework that helps to test the bus ticket booking application in multiple environments.

Background of the problem statement:

As a part of developing TestNG and POM framework, the admin requires a resource like multiple virtual machines to execute it in different environments.

You must use the following:

- Eclipse IDE
- Java Development Kit (Version 8)
- Selenium standalone server (Version 3.141.59)

Source code:-

Pom.xml:-

```
<!-- pom.xml -->
project xmlns="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.redbus
  <artifactId>redbus-testing</artifactId>
  <version>1.0-SNAPSHOT
  <dependencies>
     <!-- TestNG -->
   <dependency>
       <groupId>org.testng
       <artifactId>testng</artifactId>
       <version>7.4.0
       <scope>test</scope>
   </dependency>
   <!-- Selenium -->
   <dependency>
       <groupId>org.seleniumhq.selenium
       <artifactId>selenium-java</artifactId>
       <version>3.141.59
   </dependency>
   <!-- WebDriverManager -->
   <dependency>
```

```
<groupId>io.github.bonigarcia
        <artifactId>webdrivermanager</artifactId>
        <version>4.4.3
    </dependency>
   </dependencies>
</project>
TestSuite:-
<suite name="RedbusTestSuite">
    <parameter name="environment" value="qa" />
    <test name="RegressionTest">
        <classes>
            <class name="com.RedBuss.test.tests.LoginTest" />
            <!-- Add more test classes as needed -->
        </classes>
    </test>
</suite>
Basetest:-
package com.RedBus.Test.Base;
import org.openqa.selenium.WebDriver;
import org.openga.selenium.chrome.ChromeDriver;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.Parameters;
import io.github.bonigarcia.wdm.WebDriverManager;
public class BaseTest {
      protected WebDriver driver;
         @BeforeMethod
         @Parameters("environment")
         public void setUp(String environment) {
             System.out.println("Setting up environment: " +
environment);
             // Add logic to configure WebDriver based on the
environment
             if (environment.equalsIgnoreCase("ga")) {
                 WebDriverManager.chromedriver().setup();
                 driver = new ChromeDriver();
             } else if (environment.equalsIgnoreCase("prod")) {
                 WebDriverManager.edgedriver().setup();;
             driver.manage().window().maximize();
         }
```

```
@AfterMethod
         public void tearDown() {
              if (driver != null) {
                  driver.quit();
              }
          }
}
LoginPage:-
package com.RedBuss.test.pages;
import org.openga.selenium.By;
import org.openqa.selenium.WebDriver;
public class LoginPage {
     private WebDriver driver;
    public LoginPage(WebDriver driver) {
        this.driver = driver;
    }
    public void login(String username, String password) {
        driver.findElement(By.id("username")).sendKeys(username);
        driver.findElement(By.id("password")).sendKeys(password);
        driver.findElement(By.id("loginButton")).click();
}
LoginTest:-
package com.RedBuss.test.tests;
import org.testng.annotations.Test;
import com.RedBus.Test.Base.BaseTest;
import com.RedBuss.test.pages.LoginPage;
public class LoginTest extends BaseTest {
     @Test
    public void testLogin() {
        driver.get("https://www.redbus.in");
        // Perform login
        LoginPage loginPage = new LoginPage(driver);
        loginPage.login("9793477123", "Gaurav27");
```

```
// Add assertions or verifications as needed
}

Github Link:
```

https://github.com/sunitha-hub/ass projects lesson1.git