

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

SOURCE CODE

TestBase:

```
package redbusProject.Base;

import java.awt.Desktop;
import java.io.File;
import java.io.IOException;
import java.lang.reflect.Method;
import java.time.Duration;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.ITestContext;
import org.testng.ITestResult;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.AfterSuite;
import org.testng.annotations.BeforeSuite;
import org.testng.annotations.BeforeTest;

import com.aventstack.extentreports.ExtentReports;
import com.aventstack.extentreports.ExtentTest;
import com.aventstack.extentreports.reporter.ExtentSparkReporter;

public class TestBase {

    //Base class indicates the driver session and Application
    details

    public static WebDriver driver;
    public static ExtentReports extentreports;
    public static ExtentTest extentTest;

    public static void openBrowser(String browser) {

        driver = new ChromeDriver();

        driver.manage().window().maximize();
```

```

driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(5
));
        driver.get("https://www.redbus.in/");
    }

    @BeforeTest
    public void getNameMethod(ITestContext context) {

        extentTest =
extentreports.createTest(context.getName());
    }

    @BeforeSuite // this method will be excuted before suite
begins its execution
    public void InitalizeExtentReport() {
        ExtentSparkReporter sparkreporter = new
ExtentSparkReporter("register_user_report1.html");
        extentreports = new ExtentReports();
        extentreports.attachReporter(sparkreporter);
        // on the report display more information about OS,
browser, java etc
        extentreports.setSystemInfo("OS",
System.getProperty("os.name"));
        extentreports.setSystemInfo("JAVA",
System.getProperty("java.version"));

    }

    @AfterSuite
    public void generateReports() throws IOException {
        extentreports.flush();
        Desktop.getDesktop().browse(new
File("register_user_report1.html").toURI());
    }

    @AfterMethod
    public void generateTestStatus(Method m, ITestResult
result) {
        if (result.getStatus() == ITestResult.FAILURE) {
            System.out.println("Capture Screenshot");
            extentTest.fail(result.getThrowable());
        } else if (result.getStatus() ==
ITestResult.SUCCESS) {
            extentTest.pass(m.getName() + " is passed");
        }
    }
}

```

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Home page:

```
package redbusProject.pages;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;

public class Homepage {

    //WebDriver driver;

    //create pagefactory
    @FindBy(xpath = "//span[text()='Account']")
    WebElement myaccount;

    @FindBy(xpath = "//span[text()='Login/ Sign Up']")
    WebElement signup;

    @FindBy(id="cab_rental_vertical")
    WebElement cabRental;

    @FindBy(id="rail_tickets_vertical")
    WebElement TrainTickets;

    public Homepage(WebDriver driver) {

        PageFactory.initElements(driver, this);

    }
    //Actions

    public void clickOnMyAccount() {

        myaccount.click();

    }

    public void clickOnSignup() {
        signup.click();
    }

    public void clickOnCabRental() {
        cabRental.click();
    }
}
```

```

        public void clickOntrainTicket() {
            TrainTickets.click();
        }
    }
}
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```

SearchBusPage:

```

package redbusProject.pages;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;

public class SearchBusPage {
    @FindBy(id = "src")
    private WebElement fromLocation;
    @FindBy(id = "dest")
    private WebElement toLocation;
    @FindBy(className = "dateText")
    private WebElement date;
    @FindBy(xpath = "(//span[normalize-space()='26'])")
    private WebElement selectDate;
    @FindBy(id = "search_button")
    private WebElement clickSearch;

    public SearchBusPage(WebDriver driver) {
        PageFactory.initElements(driver, this);
    }

    public void clickFrom(String from) {
        fromLocation.sendKeys(from);
    }

    public void clickTo(String to) {
        toLocation.sendKeys(to);
    }

    public void clickDate() {
        date.click();
    }

    public void selectDateFromCalendar() {
        selectDate.click();
    }

    public void searchBuses() {
        clickSearch.click();
    }
}

```

```

    }
}
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```

NavigateTest:

```

package redbusProject.Testpages;

import org.testng.annotations.AfterClass;
import org.testng.annotations.BeforeClass;

import org.testng.annotations.Test;

import redbusProject.Base.TestBase;
import redbusProject.pages.Homepage;

public class NavigateTest extends TestBase {

    Homepage hp;

    @BeforeClass
    public void OpenApp() {

        openBrowser("Chrome");
        hp = new Homepage(driver);
    }

    @Test(priority = '1')

    public void clickOnAccount() throws InterruptedException
    {

        Thread.sleep(2000);
        hp.clickOnMyAccount();
        Thread.sleep(2000);

    }

    @Test(priority = '2')

    public void clickOnCabrental() throws
InterruptedException {

        hp.clickOnCabRental();
        Thread.sleep(3000);

    }

    @AfterClass
    public void CloseApp() {

```

```

        driver.quit();
    }

}

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```

AccountPageTest:

```

package redbusProject.Testpages;

import org.testng.annotations.AfterClass;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.Test;

import redbusProject.Base.TestBase;
import redbusProject.pages.Homepage;

public class AccountPageTest extends TestBase {

    Homepage hp;

    @BeforeClass
    public void OpenApp() {

        openBrowser("Chrome");
        hp = new Homepage(driver);
    }

    @Test

    public void clickOnSignUpPage() throws
    InterruptedException {

        Thread.sleep(2000);
        hp.clickOnMyAccount();
        Thread.sleep(5000);
        hp.clickOnSignup();
        Thread.sleep(5000);

    }

    @AfterClass
    public void CloseApp() {

        driver.quit();
    }
}

```

```

    }

}
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```

BookBusTicketTest:

```

package redbusProject.Testpages;

```

```

import org.testng.annotations.AfterClass;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.Test;

```

```

import redbusProject.Base.TestBase;
import redbusProject.pages.SearchBusPage;

```

```

public class BookBusTicketTest extends TestBase {
    SearchBusPage Sp;
    @BeforeClass
    public void OpenApp() {
        openBrowser("Chrome");
        Sp = new SearchBusPage(driver);
    }
    @Test

    public void SearchBus() throws InterruptedException {
        String from = "Mumbai";
        String to = "Pune";

        Sp.clickFrom(from);
        Sp.clickTo(to);
        Sp.clickDate();
        Sp.selectDateFromCalendar();
        Sp.searchBuses();
        Thread.sleep(5000);

    }

    @AfterClass
    public void CloseApp() {

        driver.quit();
    }
}

```

```

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```

TestNGRunner.xml

```
<suite name="test1" verbose="1">

    <test name="POMFramework">
        <classes>

            <class
name="redbusProject.Testpages.NavigateTest"></class>
            <class
name="redbusProject.Testpages.AccountPageTest"></class>
            <class
name="redbusProject.Testpages.BookBusTicketTest"></class>

        </classes>
    </test>

</suite>
```