**Capstone Project:**

**Testing Framework for Sporty Shoes Website**

**Source Code:**

**1)REST Assured:**

**TestBase.java**

**package** in.sportyshoes.SportyShoesRestAssured;

**import** org.apache.log4j.Level;

**import** org.apache.log4j.Logger;

**import** org.apache.log4j.PropertyConfigurator;

**import** org.testng.annotations.BeforeClass;

**import** io.restassured.response.Response;

**import** io.restassured.specification.RequestSpecification;

**public** **class** TestBase {

**public** **static** RequestSpecification *httpRequest*;

**public** **static** Response *response*;

**public** Logger logger;

@BeforeClass

**public** **void** setUp() {

logger = Logger.*getLogger*("LogDemo");

PropertyConfigurator.*configure*("log4j.properties");

logger.setLevel(Level.***DEBUG***);

}

}

**Log4j.properties**

log4j.rootLogger=ERROR,stdout

log4j.logger.com.endeca=INFO

log4j.logger.LogDemo=DEBUG, dest1

# Logger for crawl metrics

log4j.logger.com.endeca.itl.web.metrics=INFO

log4j.appender.stdout=org.apache.log4j.ConsoleAppender

log4j.appender.stdout.layout=org.apache.log4j.PatternLayout

log4j.appender.stdout.layout.ConversionPattern=%p\t%d{ISO8601}\t%r\t%c\t[%t]\t%m%n

**GetAllProducts.java**

**package** in.sportyshoes.SportyShoesRestAssured;

**import** org.testng.annotations.Test;

**import** io.restassured.RestAssured;

**public** **class** GetAllProducts **extends** TestBase{

@Test

**public** **void** getAllProducts() {

RestAssured

.*when*()

.get("http://localhost:9010/get-shoes")

.then()

.assertThat()

.statusCode(200)

.log().all();

logger.info("All Products Are Displayed");

}

}

**GetAllUsers.java**

**package** in.sportyshoes.SportyShoesRestAssured;

**import** org.testng.annotations.Test;

**import** io.restassured.RestAssured;

**public** **class** GetAllUsers **extends** TestBase {

@Test

**public** **void** getAllUsers() {

RestAssured

.*when*()

.get("http://localhost:9010/get-users")

.then()

.assertThat()

.statusCode(200)

.log().all();

logger.info("All Users Are Displayed");

}

}

**PostNewProduct.java**

**package** in.sportyshoes.SportyShoesRestAssured;

**import** org.testng.annotations.Test;

**import** io.restassured.RestAssured;

**public** **class** PostNewProduct **extends** TestBase {

@Test

**public** **void** postNewProduct() {

RestAssured

.*when*()

.post("http://localhost:9010/add-shoe?id=102&image=image\_url&name=SampleShoe&category=Running&sizes=9&price=1000")

.then()

.assertThat()

.statusCode(200)

.log().all();

logger.info("New Products is Added");

}

}

**2)Selenium:**

**BaseTest.java**

**package** in.sportyshoes.testscripts;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.chrome.ChromeDriver;

**import** org.testng.annotations.AfterTest;

**import** org.testng.annotations.BeforeTest;

**public** **class** BaseTest {

WebDriver driver;

@BeforeTest

**public** **void** launchApplication() {

driver = **new** ChromeDriver();

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

driver.get("http://localhost:9010");

}

@AfterTest

**public** **void** closeBrowser() {

driver.quit();

}

}

**placeOrder.java**

**package** in.sportyshoes.testscripts;

**import** org.testng.Assert;

**import** org.testng.annotations.Test;

**import** in.sportyshoes.pages.AddProductToCartPage;

**import** in.sportyshoes.pages.CartPage;

**import** in.sportyshoes.pages.OrderPage;

**import** in.sportyshoes.pages.RegisterPage;

**import** in.sportyshoes.pages.RegisterUserPage;

**import** in.sportyshoes.pages.loginPage;

**public** **class** placeOrder **extends** BaseTest{

@Test

**public** **void** PlaceOrder() **throws** InterruptedException {

loginPage loginpage = **new** loginPage(driver);

loginpage.clickRegisterHere();

RegisterPage registerPage = **new** RegisterPage(driver);

registerPage.EnterName("batman1234");

registerPage.EnterEmail("batman1234@gmail.com");

registerPage.EnterPassword("batman123");

registerPage.clickOnRegisterBtn();

RegisterUserPage registerUserPage = **new** RegisterUserPage(driver);

registerUserPage.clickOnLogoutBtn();

loginpage.enterEmail("batman1234@gmail.com");

loginpage.enterPassword("batman123");

loginpage.clickLoginBtn();

AddProductToCartPage addProductToCartPage = **new** AddProductToCartPage(driver);

addProductToCartPage.clickOnAddToCartBtn();

addProductToCartPage.clickOnHomeBtn();

addProductToCartPage.clickOnCartBtn();

CartPage cartPage = **new** CartPage(driver);

cartPage.clickOnPlaceOrderBtn();

OrderPage orderPage = **new** OrderPage(driver);

String expectedText = "Success!";

String actualText = orderPage.getTextMessage();

Assert.*assertEquals*(actualText, expectedText);

}

}

**AddProductToCartPage.java**

**package** in.sportyshoes.pages;

**import** java.time.Duration;

**import** org.openqa.selenium.JavascriptExecutor;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.support.FindBy;

**import** org.openqa.selenium.support.PageFactory;

**import** org.openqa.selenium.support.ui.ExpectedConditions;

**import** org.openqa.selenium.support.ui.WebDriverWait;

**public** **class** AddProductToCartPage {

**private** WebDriverWait wait;

**private** JavascriptExecutor jse;

@FindBy(xpath = "(//a[contains(@class, 'btn btn-primary')])[1]")

**private** WebElement addtocartBtn;

@FindBy(linkText = "Home")

**private** WebElement homeBtn;

@FindBy(linkText = "Cart")

**private** WebElement cartBtn;

**public** AddProductToCartPage(WebDriver driver) {

PageFactory.*initElements*(driver, **this**);

wait = **new** WebDriverWait(driver, Duration.*ofSeconds*(90));

jse = (JavascriptExecutor)driver;

}

**public** **void** clickOnAddToCartBtn() **throws** InterruptedException {

Thread.*sleep*(3000);

wait.until(ExpectedConditions.*elementToBeClickable*(addtocartBtn));

jse.executeScript("arguments[0].scrollIntoView()", addtocartBtn);

jse.executeScript("arguments[0].click()", addtocartBtn);

}

**public** **void** clickOnHomeBtn() **throws** InterruptedException {

Thread.*sleep*(2000);

wait.until(ExpectedConditions.*elementToBeClickable*(homeBtn));

homeBtn.click();

}

**public** **void** clickOnCartBtn() **throws** InterruptedException {

Thread.*sleep*(2000);

wait.until(ExpectedConditions.*elementToBeClickable*(cartBtn));

cartBtn.click();

}

}

**CartPage.java**

**package** in.sportyshoes.pages;

**import** java.time.Duration;

**import** org.openqa.selenium.JavascriptExecutor;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.support.FindBy;

**import** org.openqa.selenium.support.PageFactory;

**import** org.openqa.selenium.support.ui.ExpectedConditions;

**import** org.openqa.selenium.support.ui.WebDriverWait;

**public** **class** CartPage {

**private** WebDriverWait wait;

**private** JavascriptExecutor jse;

@FindBy(linkText = "Place Order")

**private** WebElement placeOrderBtn;

**public** CartPage(WebDriver driver) {

PageFactory.*initElements*(driver, **this**);

wait = **new** WebDriverWait(driver, Duration.*ofSeconds*(90));

jse = (JavascriptExecutor)driver;

}

**public** **void** clickOnPlaceOrderBtn() **throws** InterruptedException {

Thread.*sleep*(3000);

wait.until(ExpectedConditions.*elementToBeClickable*(placeOrderBtn));

jse.executeScript("arguments[0].scrollIntoView()", placeOrderBtn);

jse.executeScript("arguments[0].click()", placeOrderBtn);

}

}

**loginPage.java**

**package** in.sportyshoes.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** loginPage {

@FindBy(linkText = "New User? Register Here")

**private** WebElement registerBtn;

@FindBy(id = "email")

**private** WebElement emailBox;

@FindBy(id = "password")

**private** WebElement passwordBox;

@FindBy(xpath = "//button")

**private** WebElement loginButton;

**public** loginPage(WebDriver driver) {

PageFactory.*initElements*(driver, **this**);

}

**public** **void** clickRegisterHere() **throws** InterruptedException {

Thread.*sleep*(3000);

registerBtn.click();

}

**public** **void** enterEmail(String string) **throws** InterruptedException {

Thread.*sleep*(3000);

emailBox.sendKeys(string);

}

**public** **void** enterPassword(String string) {

passwordBox.sendKeys(string);

}

**public** **void** clickLoginBtn() {

loginButton.click();

}

}

**OrderPage.java**

**package** in.sportyshoes.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** OrderPage {

@FindBy(xpath = "//strong")

**private** WebElement text;

**public** OrderPage(WebDriver driver) {

PageFactory.*initElements*(driver, **this**);

}

**public** String getTextMessage() {

String message = text.getText();

**return** message;

}

}

**RegisterPage.java**

**package** in.sportyshoes.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** RegisterPage {

@FindBy(id = "name")

**private** WebElement nameBox;

@FindBy(id = "email")

**private** WebElement emailBox;

@FindBy(id = "password")

**private** WebElement passwordBox;

@FindBy(xpath = "//button")

**private** WebElement registerButton;

**public** RegisterPage(WebDriver driver) {

PageFactory.*initElements*(driver, **this**);

}

**public** **void** EnterName(String string) **throws** InterruptedException {

Thread.*sleep*(3000);

nameBox.sendKeys(string);

}

**public** **void** EnterEmail(String string) {

emailBox.sendKeys(string);

}

**public** **void** EnterPassword(String string) {

passwordBox.sendKeys(string);

}

**public** **void** clickOnRegisterBtn() {

registerButton.click();

}

}

**RegisterUserPage.java**

**package** in.sportyshoes.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** RegisterUserPage {

@FindBy(linkText = "Logout")

**private** WebElement logoutBtn;

**public** RegisterUserPage(WebDriver driver) {

PageFactory.*initElements*(driver, **this**);

}

**public** **void** clickOnLogoutBtn() **throws** InterruptedException {

Thread.*sleep*(3000);

logoutBtn.click();

}

}

**3)JMeter:**

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**4)Postman:**

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**Github Link:**

[**https://github.com/RoghInico715/CapstoneProject**](https://github.com/RoghInico715/CapstoneProject)