Capstone Project:

Source Code:

TestBase.java:

```
package com.qa.sportshoes.base;


import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;


public class TestBase {

public static WebDriver driver;


        public static void openBrowser()

        {


                driver = new ChromeDriver();


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

                driver.manage().deleteAllCookies();

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

        }


        public void closebrowser()

        {

                driver.close();

        }

}
```

HomePage.java:

```
package com.qa.sportshoes.Pages;

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

import com.qa.sportshoes.base.TestBase;

public class HomePage extends TestBase {
    // driver.findElement(locator).methods

        // @FindBy(locatorname="value")
          // WebElement name;


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

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

        // action methods
        public void getURL_page()
        {
            String URL = driver.getCurrentUrl();
            System.out.println(URL);
        }


        public void Click_registerlink()
        {
            registerlink.click();
        }


}
```

HomePageTest.java:

```
package com.qa.sportshoes.Tests;

import org.testng.Assert;
import org.testng.annotations.Test;
import org.testng.asserts.Assertion;
import com.qa.sportshoes.Pages.HomePage;
import com.qa.sportshoes.base.TestBase;

public class HomePageTest  extends TestBase{
HomePage hp;
```

```
@Test(priority='1')
public void start_browser()
{
	openBrowser();
	hp = new HomePage(driver);
}



@Test(priority='2')
public void test_getURL_method()
{
	hp.getURL_page();
}


@Test(priority='2')
public void test_registerlink_method()
{
	hp.Click_registerlink();
	String expectedURL = "http://localhost:9010/register";
	String RegisterPageURL = driver.getCurrentUrl();
	Assert.assertEquals(RegisterPageURL, expectedURL);
}
```

```
}
```

RegisterPage.java:

```
package com.qa.sportshoes.Pages;

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

import com.qa.sportshoes.base.TestBase;



public class RegisterPage extends TestBase {
	@FindBy(xpath="//*[@id='name']")
	WebElement registerName;

	@FindBy(xpath="//input[@id='email']")
	WebElement registerEmail;

	@FindBy(xpath="//input[@id='password']")
	WebElement registerPassword;

	@FindBy(xpath="//*[@type='submit']")
	WebElement registerBtn;
	public RegisterPage(WebDriver driver)
	{
		PageFactory.initElements(driver, this);
	}

	public void register_user()
	{
		registerName.sendKeys("Arya");
		registerEmail.sendKeys("arya@gmail.com");
		registerPassword.sendKeys("arya@123");
		registerBtn.click();
	}

	public void validate_url()
	{
		String expectedURL = "http://localhost:9010/register-user";
		String RegisterPageURL = driver.getCurrentUrl();
		Assert.assertEquals(RegisterPageURL, expectedURL);
	}

}
```

RegisterPageTest.java:

```
package com.qa.sportshoes.Tests;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.Test;
import com.qa.sportshoes.Pages.HomePage;
import com.qa.sportshoes.Pages.RegisterPage;
import com.qa.sportshoes.base.TestBase;

public class RegisterPageTest  extends TestBase{
	HomePage hp;
	RegisterPage rp;



	@BeforeClass
	public void OpenBrowser()
	{
		openBrowser();

		hp = new HomePage(driver);
		rp = new RegisterPage(driver);

	}

	@Test(priority='1')
	public void test_click_registerLink() throws InterruptedException
	{
		Thread.sleep(1500);
		hp.Click_registerlink();
	}
	@Test(priority='2')
	public void test_register_user()
	{
		rp.register_user();
	}

	@Test(priority='3')
	public void test_newUser_url()
	{
		rp.validate_url();
	}

}
```

LoginPage.java:

```
package com.qa.sportshoes.Pages;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;
import org.testng.Assert;
import com.qa.sportshoes.base.TestBase;

public class LoginPage extends TestBase{
	@FindBy(xpath="//*[@id='email']")
	WebElement loginEmail;
```

```
@FindBy(xpath="//*[@id='password']")
WebElement LoginPassword;

@FindBy(xpath="//*[@type='submit']")
WebElement LoginBtn;

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



public void user_login()
{
        loginEmail.sendKeys("arya@gmail.com");
        LoginPassword.sendKeys("arya@123");
        LoginBtn.click();
}

public void validate_loginPage_url()
{
        String expectedURL = "http://localhost:9010/login";
        String RegisterPageURL = driver.getCurrentUrl();
        Assert.assertEquals(RegisterPageURL, expectedURL);
}
```

```
}
```

LoginPageTest.java:

```
package com.qa.sportshoes.Tests;
import org.testng.Assert;
import org.testng.annotations.Test;
import com.qa.sportshoes.Pages.LoginPage;
import com.qa.sportshoes.base.TestBase;

public class LoginPageTest extends TestBase{
LoginPage lp;

        @Test(priority='1')
        public void start_browser()
        {
                openBrowser();
                lp = new LoginPage(driver);
        }

        public void test_user_login() throws InterruptedException
        {
                Thread.sleep(1000);
                lp.user_login();
        }

        public void test_validate_loginPage_url()
```

```
	{
		lp.validate_loginPage_url();

	}

}
```

ProductsPage.java:

```
package com.qa.sportshoes.Pages;
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;

public class ProductsPage {
	@FindBy(xpath="//*[@id='cart101']")
	WebElement addtocartBTN;

	@FindBy(linkText="Home")
	WebElement HomeBTN;



	@FindBy(linkText="Cart")
	WebElement CartBTN;

	@FindBy(xpath="//*[@id='place-order']")
```

```
WebElement placeOrderBTN;

@FindBy(linkText="Orders")
WebElement OrdersBTN;

@FindBy(linkText="Logout")
WebElement logoutBTN;

JavascriptExecutor executor;


public ProductsPage(WebDriver driver)
{
        PageFactory.initElements(driver, this);
        executor = (JavascriptExecutor) driver;
}


public void click_addtoCart()
{
        executor.executeScript("arguments[0].click();", addtocartBTN);
}


public void click_homebtn()
{
        HomeBTN.click();
    }

    public void click_cartbtn()
    {
        CartBTN.click();
    }



    public void click_placeorder()
    {
        executor.executeScript("arguments[0].click();", placeOrderBTN);
    }

    public void click_Ordersbtn()
    {
        OrdersBTN.click();
    }

    public void click_Logoutbtn()
    {
        logoutBTN.click();
    }

}
```

ProductsPageTest.java:

```
package com.qa.sportshoes.Tests;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.Test;
import com.qa.sportshoes.Pages.LoginPage;
import com.qa.sportshoes.Pages.ProductsPage;
import com.qa.sportshoes.base.TestBase;

public class ProductsTest extends TestBase{
    LoginPage lp;
    ProductsPage pp;

        @BeforeClass
        public void start_browser()
        {
            openBrowser();
            lp = new LoginPage(driver);
            pp = new ProductsPage(driver);
        }
        @Test(priority='1')
        public void test_user_login() throws InterruptedException
        {
            Thread.sleep(1000);
            lp.user_login();
        }
        @Test(priority='2')
```

```
public void test_product_addtoCart() throws InterruptedException
{
        Thread.sleep(1000);
        pp.click_addtoCart();

}

@Test(priority='3')
public void test_HomeBTN() throws InterruptedException
{
        Thread.sleep(1000);
        pp.click_homebtn();
}



@Test(priority='4')
public void test_CartBTN() throws InterruptedException
{
        Thread.sleep(1000);
        pp.click_cartbtn();
}

@Test(priority='5')
public void test_placeorderBTN() throws InterruptedException
{
        Thread.sleep(1000);
        pp.click_placeorder();
    }


    @Test(priority='6')
    public void test_orders() throws InterruptedException
    {
        Thread.sleep(1000);
        pp.click_homebtn();
        pp.click_Ordersbtn();
    }


    @Test(priority='7')
    public void test_logout() throws InterruptedException
    {
        Thread.sleep(1000);
        pp.click_Logoutbtn();
    }

}
```

Action	Method	Endpoint

Retrieve the list of all products in the store	GET	http://localhost:9010/get-shoes
Retrieve the list of all registered users	GET	http://localhost:9010/get-users
Add the product	POST	http://localhost:9010/add-shoe?id=101&image=image_url&name=SampleShoe&category=Running&sizes=9&price=1000
Delete the product	DELETE	http://localhost:9010/delete-shoe?id=101
Update the	PUT	http://localhost:9010/update-shoe

product		

Put request params:

```
{
  "id": 101,
  "name": "SketchersShoes",
  "category": "Walking",
  "sizes": "8,9,10",
  "price": 1500,
  "image": "myimage.png"
}
```

Feature file:

Sportyshoe.feature:

```
Feature: APiTesting for sportShoe application

  Scenario: Retrieve the list of all products in the store
    Given User sends a get request to get product details

  Scenario: Retrieve the list of all registered users
    Given User sends get request to list user details

  Scenario: Add the product
    When User gives new product details, add the product

  Scenario: Delete the Product
    When User gives product id, delete the product

  Scenario: Update Exisitng Product
    When User gives product id and update data, update the product
```

Steps:

ApiTesting.java:

```
package steps;

import org.hamcrest.Matchers;

import io.cucumber.java.en.Given;

import io.cucumber.java.en.When;
import io.restassured.RestAssured;


public class ApiTesting {
    @Given("User sends a get request to get product details")
    public void user_sends_a_get_request_to_get_product_details() {


        RestAssured.given()
        .baseUri("http://localhost:9010")
        .basePath("/get-shoes")
        .when().get()
        .then().statusCode(200)
        .log().body();
    }
    @Given("User sends get request to list user details")
    public void user_sends_get_request_to_list_user_details() {
        RestAssured.given()
        .baseUri("http://localhost:9010")
        .basePath("/get-users")
        .when().get()
        .then().statusCode(200)
        .log().body();
```

```
}

@When("User gives new product details, add the product")

public void user_gives_new_product_details_add_the_product() {


        RestAssured.given()

        .baseUri("http://localhost:9010")

        .basePath("/add-shoe")

        .queryParams("id","1003")

        .queryParam("image", "img.png")

        .queryParam("name", "Addidas")

        .queryParam("category", "Running")

        .queryParam("sizes", "9")

        .queryParam("price", "1000")

        .when().post()

        .then().body("shoe", Matchers.hasEntry("id", 1003));


}

@When("User gives product id, delete the product")

public void user_gives_product_id_delete_the_product() {


        RestAssured.given()

        .baseUri("http://localhost:9010")
        .basePath("/delete-shoe")
        .queryParam("id", "1003")
        .when().delete()
        .then().log().all();


    }
    @When("User gives product id and update data, update the product")
    public void
user_gives_product_id_and_update_data_update_the_product() {


        RestAssured.given()
        .baseUri("http://localhost:9010")
        .basePath("/update-shoe")
        .queryParams("id","101")
        .queryParam("image", "img2.png")
        .queryParam("name", "Sketchers")
        .queryParam("category", "Walking")
        .queryParam("sizes", "9")
        .queryParam("price", "5000")
        .when().put()
        .then()
        .body("shoe", Matchers.hasEntry("name", "Sketchers"));
```

```
            }

        }
```