- 1. Automate the below API endpoints using Rest-Assured
 - Retrieve the list of all products in the store.
 - Retrieve the list of all registered users.
 - Add the product.
 - Delete the product.
 - Update the product.

```
package com.sportyshoe.restAssuredScripts;
import org.testng.annotations.Test;
import io.restassured.RestAssured;
public class GetAllShoes {
      @Test (priority='1')
      public void get all shoes()
            RestAssured.given()
            .baseUri("http://localhost:9010")
            .basePath("/get-shoes")
            .when()
            .get()
            .then()
            .statusCode(200)
            .log()
            .all();
      }
      @Test(priority='2')
      public void get all users()
            RestAssured.given()
            .baseUri("http://localhost:9010")
            .basePath("/get-users")
            .when()
            .get()
            .then()
            .statusCode(200)
            .log()
            .all();
      }
}
```

package com.sportyshoe.restAssuredScripts;

import org.testng.annotations.Test;

```
import io.restassured.RestAssured;
public class PostandPutnewshoe {
       @Test(priority='1')
       public void add_new_product()
              RestAssured.given()
              .baseUri("http://localhost:9010")
              .basePath("/add-shoe")
              .queryParam("id","1020")
              .queryParam("image", "www.imge.com")
              .queryParam("name","Nike")
              .queryParam("category", "Running")
              .queryParam("sizes","5,6,7")
              .queryParam("price", "2000")
              .when()
              .post()
              .then()
              .log().all();
}
       @Test(priority='2')
       public void update_a_product()
              RestAssured.given()
              .baseUri("http://localhost:9010")
              .basePath("/update-shoe")
              .queryParam("id","1020")
              .queryParam("image", "www.imge123.com")
              .queryParam("name","Reebok")
              .queryParam("category", "Running")
              .queryParam("sizes","5,6,7")
              .queryParam("price", "2500")
              .when()
              .put()
              .then()
              .log().all();
}
}
package com.sportyshoe.restAssuredScripts;
import org.testng.annotations.Test;
```

import io.restassured.RestAssured;

```
public class Delete {
    @Test(priority='1')
    public void delete_product()
    {
        RestAssured.given()
        .baseUri("http://localhost:9010")
        .basePath("/delete-shoe")
        .queryParam("id", "1010")
        .when().delete()
        .then().log().all();
    }
}
```

- 2. Create Selenium scripts using TestNG to test all the pages in the web app that will automate:
 - Login page
 - Registration Page
 - Add Product to cart page.
 - Place Order Page

```
Home page
package com.sportyshoe selenium;
import org.openqa.selenium.WebDriver;
import org.openga.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;
public class HomePage extends TestBase{
      @FindBy(xpath="//div[@class='container mt-3']/descendant::p[1]")
      WebElement text;
      @FindBy(linkText="New User? Register Here")
      WebElement registerLink;
      public HomePage(WebDriver driver) {
            PageFactory.initElements(driver, this);
      public String getURL page()
            String URLnew = driver.getCurrentUrl();
            return URLnew;
      public String Validate Text On Page()
```

```
String pageText = text.getText();
            System.out.println(pageText);
            return pageText;
      public void click register link()
            registerLink.click();
}
Login page
package com.sportyshoe selenium;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openga.selenium.support.PageFactory;
public class LoginPage {
      @FindBy(xpath="//input[@id='email']")
      WebElement loginEmail;
      @FindBy(xpath="//input[@id='password']")
      WebElement loginpassword;
      @FindBy(xpath="//button[@type='submit']")
      WebElement loginbtn;
      @FindBy(linkText="Cart")
      WebElement clickCart;
      public LoginPage(WebDriver driver) {
            PageFactory.initElements(driver, this);
      public void user_login()
            loginEmail.sendKeys("sonal@gmail.com");
            loginpassword.sendKeys("sonal@123");
            loginbtn.click();
      }
      public void click cart()
            clickCart.click();
}
Register page
package com.sportyshoe selenium;
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 extends TestBase{
      @FindBy(xpath="//input[@id='name']")
      WebElement registername;
      @FindBy(xpath="//input[@id='email']")
      WebElement registeremail;
      @FindBy(xpath="//input[@id='password']")
      WebElement registerpassword;
      @FindBy(xpath="//button[@type='submit']")
      WebElement registerBtn;
      @FindBy(xpath="//div[@class='mt-4 p-5 bg-primary text-white
rounded']/descendant::p[3]")
      WebElement userText;
      public RegisterPage(WebDriver driver) {
            PageFactory.initElements(driver, this);
      public void register_user()
```

```
registername.sendKeys("sonal");
            registeremail.sendKeys("sonal@gmail.com");
            registerpassword.sendKeys("sonal@123");
            registerBtn.click();
      }
      public String validate registration URL()
      {
            String register_url = driver.getCurrentUrl();
            return register url;
      }
      public String validate_registration_Text()
      {
            String user name = userText.getText();
            return user name;
      }
}
Addtocart
package com.sportyshoe selenium;
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 AddtoCartPage {
      @FindBy(xpath="//a[@id=\"shoe101\"]")
      WebElement viewShoeBTN;
      @FindBy(xpath = "//a[@id='cart101']")
      WebElement addtocartBTN;
      @FindBy(xpath="//div[@class='alert alert-success']/descendant::p[1]")
      WebElement successText;
      JavascriptExecutor executor;
      public AddtoCartPage(WebDriver driver) {
            PageFactory.initElements(driver, this);
            executor = (JavascriptExecutor) driver;
      }
      public void add_product_to_cart() throws InterruptedException
      {
            executor.executeScript("arguments[0].click();", addtocartBTN);
      }
```

```
public String validate success message()
      {
            String successtext = successText.getText();
            return successtext;
      }
}
Order page
package com.sportyshoe_selenium;
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(linkText="Orders")
      WebElement orderlink;
      public OrderPage(WebDriver driver) {
            PageFactory.initElements(driver, this);
      }
      public void click_orderPage()
```

```
orderlink.click();
      }
Test scripts
package com.sportyshoe.Tests;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
import com.sportyshoe_selenium.HomePage;
import com.sportyshoe selenium.TestBase;
import static org.testng.Assert.assertEquals;
import org.testng.Assert;
import org.testng.Assert.*;
public class HomePageTest extends TestBase{
HomePage hp;
      @BeforeTest
      public void start browser()
            OpenBrowser("Chrome");
            hp = new HomePage(driver);
      }
      @Test(priority='1')
      public void test getTitle page()
            String expected = "http://localhost:9010/";
            String Actual = hp.getURL page();
            Assert.assertEquals (Actual, expected);
      @Test(priority='2')
      public void Test_Validate_Text_On_Page()
            String expected = "Powered By Simplilearn";
            String actualText = hp.Validate Text On Page();
            Assert.assertEquals(actualText, expected);
      @Test(priority='3')
      public void test click register link() throws InterruptedException
```

```
Thread. sleep (1500);
            hp.click register link();
}
Login page test
package com.sportyshoe.Tests;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
import com.sportyshoe selenium.HomePage;
import com.sportyshoe_selenium.LoginPage;
import com.sportyshoe_selenium.RegisterPage;
import com.sportyshoe selenium.TestBase;
import static org.testng.Assert.assertEquals;
import org.testng.Assert;
import org.testng.Assert.*;
public class LoginPageTest extends TestBase{
      HomePage hp;
      RegisterPage rp;
      LoginPage lp;
      @BeforeTest
      public void start_browser()
            OpenBrowser("Chrome");
            hp = new HomePage(driver);
            rp = new RegisterPage(driver);
            lp = new LoginPage(driver);
      }
      @Test(priority='1')
      public void test login()
            lp.user login();
      @Test(priority='2')
      public void test getTitle page()
            String expected = "http://localhost:9010/login";
            String Actual = hp.getURL page();
            Assert.assertEquals (Actual, expected);
      }
@Test(priority='3')
```

```
public void Test validate registration Text()
            String expected = "Hello sonal !";
            String actualText = rp.validate_registration_Text();
            Assert.assertEquals(actualText, expected);
      }
@Test(priority='4')
public void test click cart()
     lp.click cart();
Register page test
package com.sportyshoe.Tests;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
import com.sportyshoe selenium.HomePage;
import com.sportyshoe selenium.RegisterPage;
import com.sportyshoe_selenium.TestBase;
import static org.testng.Assert.assertEquals;
import org.testng.Assert;
public class RegisterPageTest extends TestBase{
      HomePage hp;
      RegisterPage rp;
      @BeforeTest
```

```
public void start browser()
{
      OpenBrowser("Chrome");
      hp = new HomePage(driver);
      rp = new RegisterPage(driver);
}
@Test(priority='1')
public void test_click_register_link() throws InterruptedException
      Thread.sleep(1500);
      hp.click_register_link();
}
@Test(priority='2')
public void test_getTitle_page()
      String expected = "http://localhost:9010/register";
      String Actual = hp.getURL page();
      Assert.assertEquals(Actual, expected);
}
@Test(priority='3')
public void Test register user()
{
      rp.register_user();
```

```
}
      @Test(priority='4')
      public void Test validate registration URL()
            String expected = "http://localhost:9010/register-user";
            String Actual = rp.validate_registration_URL();
            assertEquals(Actual, expected);
      }
@Test(priority='5')
      public void Test validate registration Text()
      {
            String expected = "Hello sonal !";
            String actualText = rp.validate_registration_Text();
            Assert.assertEquals(actualText, expected);
      }
Add to cart test
package com.sportyshoe.Tests;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
import com.sportyshoe selenium.AddtoCartPage;
```

```
import com.sportyshoe selenium.HomePage;
import com.sportyshoe selenium.LoginPage;
import com.sportyshoe selenium.RegisterPage;
import com.sportyshoe selenium.TestBase;
import static org.testng.Assert.assertEquals;
import org.testng.Assert;
import org.testng.Assert.*;
public class AddtoCartPageTest extends TestBase{
      HomePage hp;
      RegisterPage rp;
      LoginPage lp;
      AddtoCartPage ac;
      @BeforeTest
      public void start browser()
            OpenBrowser("Chrome");
            hp = new HomePage(driver);
            rp = new RegisterPage(driver);
            lp = new LoginPage(driver);
            ac = new AddtoCartPage(driver);
      }
      @Test(priority='1')
      public void test_login()
```

```
lp.user login();
      }
      @Test(priority='2')
      public void test add product to cart() throws InterruptedException
      {
            ac.add_product_to_cart();
      }
      @Test(priority='3')
      public void test validate success message()
            String expected = "Message: Shoe BlueWave Running Shoes Added
Successfully to Cart";
      String actualText=
                              ac.validate success message();
      Assert.assertEquals(actualText, expected);
      }
}
Order page test
package com.sportyshoe.Tests;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
import com.sportyshoe_selenium.HomePage;
import com.sportyshoe selenium.LoginPage;
```

```
import com.sportyshoe selenium.OrderPage;
import com.sportyshoe selenium.RegisterPage;
import com.sportyshoe selenium.TestBase;
import static org.testng.Assert.assertEquals;
import org.testng.Assert;
import org.testng.Assert.*;
public class OrderpageTest extends TestBase {
      HomePage hp;
      RegisterPage rp;
      LoginPage lp;
      OrderPage op;
      @BeforeTest
      public void start browser()
            OpenBrowser("Chrome");
            hp = new HomePage(driver);
            rp = new RegisterPage(driver);
            lp = new LoginPage(driver);
            op = new OrderPage(driver);
      }
      @Test(priority='1')
      public void test_login()
```

```
lp.user login();
      }
      @Test(priority='2')
      public void test click orders()
      {
            op.click orderPage();
      }
      @Test(priority='3')
      public void test getTitle page()
      {
            String expected = "http://localhost:9010/orders";
            String Actual = hp.getURL page();
            Assert.assertEquals(Actual, expected);
      }
}
```

Cucumber

```
Feature: Testing API endpoints on sportyshoe page

Scenario: get the details from sportyshoe page

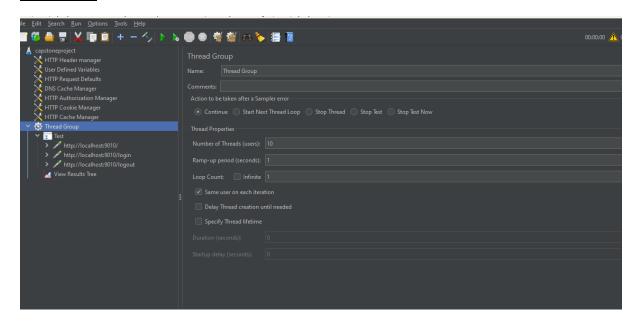
When I get all shoes from sportyshoe page
Then I list the all registered users
Then I Add the product to cart
And I Update the product
Then I Delete the product

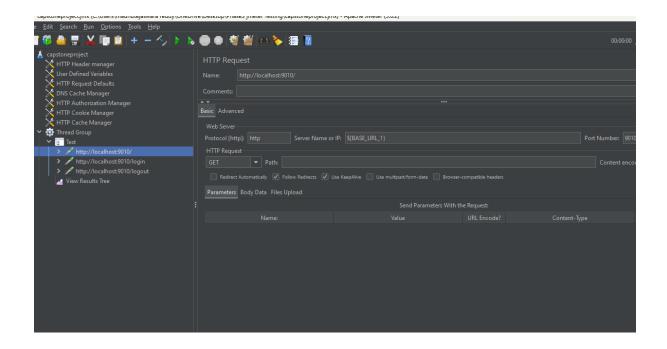
Steps
package steps;
```

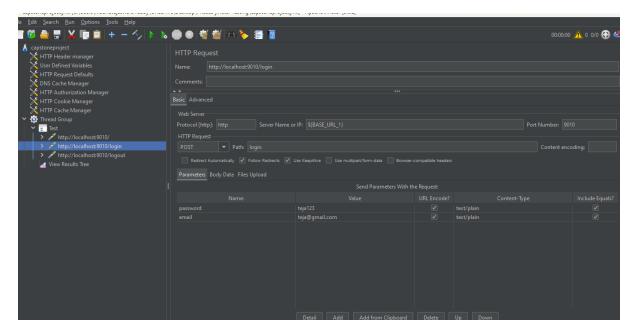
```
import io.cucumber.java.en.Then;
import io.cucumber.java.en.When;
import io.restassured.RestAssured;
public class Loginpage {
      @When("I get all shoes from sportyshoe page")
      public void i get all shoes from sportyshoe page() {
            RestAssured.given()
            .baseUri("http://localhost:9010")
            .basePath("/get-shoes")
            .when()
            .get()
            .then()
            .statusCode(200)
            .log()
            .all();
      }
      @Then("I list the all registered users")
      public void i list the all registered users() {
            RestAssured.given()
            .baseUri("http://localhost:9010")
            .basePath("/get-users")
            .when()
            .get()
            .then()
            .statusCode(200)
            .log()
            .all();
      }
      @Then("I Add the product to cart")
      public void i add the product to cart() {
            RestAssured.given()
            .baseUri("http://localhost:9010")
            .basePath("/add-shoe")
            .queryParam("id","101")
            .queryParam("image", "www.image.com")
            .queryParam("name","Nike")
            .queryParam("category", "Running")
            .queryParam("sizes","9")
            .queryParam("price", "2000")
            .when()
            .post()
            .then()
            .log().all();
      @Then("I Update the product")
      public void i update the product() {
            RestAssured.given()
            .baseUri("http://localhost:9010")
            .basePath("/update-shoe")
            .queryParam("id","101")
            .queryParam("image", "www.imge123.com")
            .queryParam("name", "Reebok")
            .queryParam("category", "walking")
```

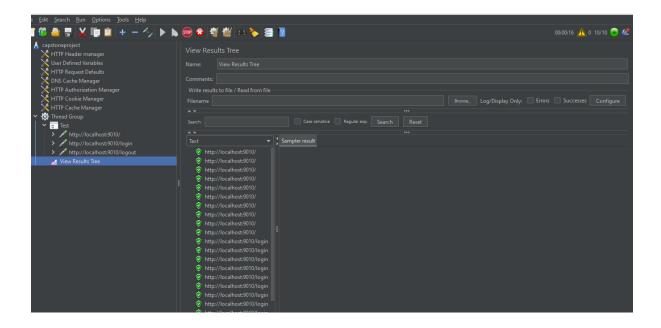
```
.queryParam("sizes","8,9,10")
            .queryParam("price", "1500")
            .when()
            .put()
            .then()
            .log().all()
      @Then("I Delete the product")
      public void i_delete_the_product() {
            RestAssured.given()
            .baseUri("http://localhost:9010")
            .basePath("/delete-shoe")
            .queryParam("id", "101")
            .when().delete()
            .then().log().all();
      }
}
```

Jmeter



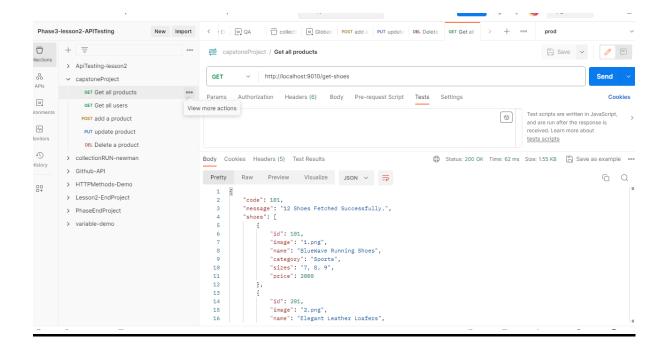




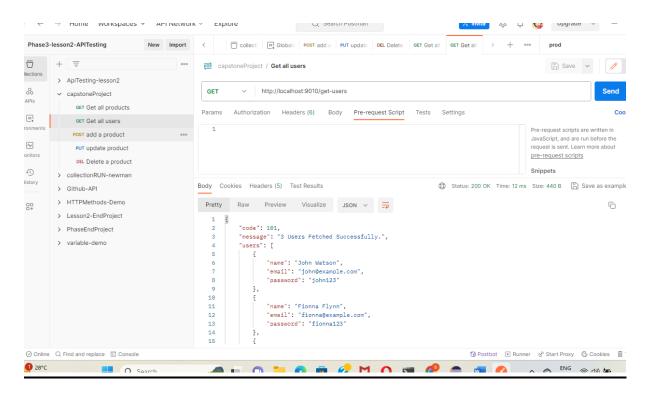


Postman

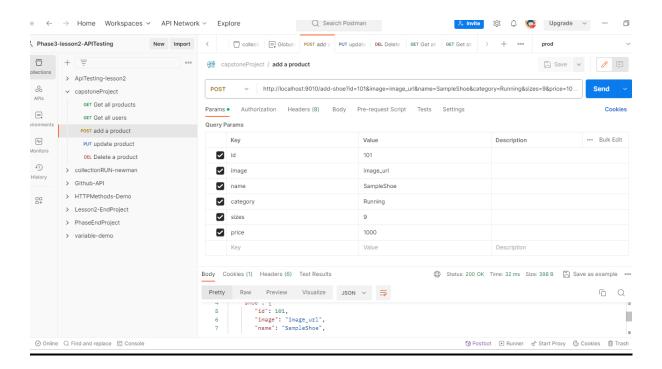
Get all users



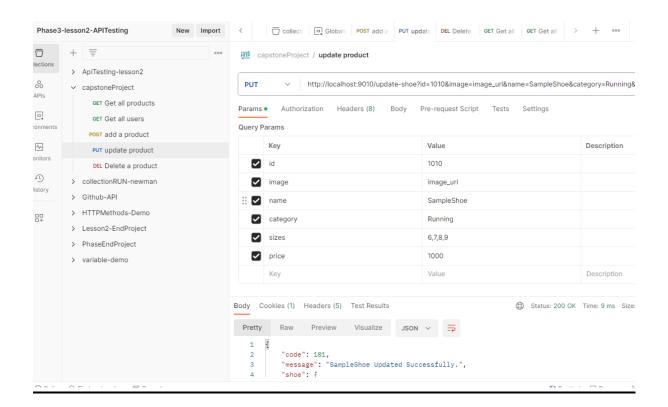
Get



Post



Put



Delete

