Sporty Shoes Testing Framework Documentation

The Sporty Shoes Testing Framework is designed to provide a comprehensive quality assurance (QA) and testing suite for the Sporty Shoes website. The framework incorporates various testing tools and libraries to ensure the reliability and functionality of the web application.

Project Components

1.apitestRestAssured Package

- ApiTests.java: Contains automated API tests using Rest-Assured.

2. cucumber Package

- apirunner.java: Cucumber test runner class.
- apistepdefinitions.java: Cucumber step definitions for API testing.
- api.feature: Cucumber feature file defining scenarios for API testing.

3. loadtest Package

- Sportyshoes Load Testing In JMeter.jmx: JMeter script for load testing the Sporty Shoes website.

4. postman Package

- ATE Capstone Project.postman_collection.json: Postman collection for API testing.

5. webTestSeleniumTestNg Package

- AddToCartPage.java: Page class for the "Add to Cart" functionality.
- AddtoCartPageTest.java: Test class for the "Add to Cart" functionality.
- HomePage.java: Page class for the Home page.
- HomePageTest.java: Test class for the Home page.
- LoginPage.java: Page class for the Login functionality.
- LoginPageTest.java: Test class for the Login functionality.
- OrderPage.java: Page class for the Order page.
- OrderpageTest.java: Test class for the Order page.
- RegisterPage.java: Page class for the Registration functionality.
- RegisterPageTest.java: Test class for the Registration functionality.
- TestBase.java: Base class for common test setup.

Testing Tools and Libraries

- Selenium WebDriver with TestNG: Used for end-to-end browser-based testing.
- Rest-Assured: Used for API testing.
- Cucumber: Used for behavior-driven development (BDD) and API testing.
- JMeter: Used for load testing.
- Postman: Used for API testing.
- Git and GitHub: Version control and collaboration.
- Eclipse IDE: Integrated Development Environment for Java.
- Maven: Project management and build tool.

Execution Instructions

API Endpoints Tested

In System Port Number 9010 is Already Used So That I Change Port Number 8100

java -jar -Dserver.port=8100 sporty-shoes-v1.jar

1. Retrieve the list of all products in the store

- Method: GET
- Endpoint: http://localhost:8100/get-shoes

2. Retrieve the list of all registered users

- Method: GET
- Endpoint: http://localhost:8100/get-users

3. Add the product

- Method: POST
- Endpoint: http://localhost:8100/add-shoe?id=101&image=image_url&name=SampleShoe&category=Running&sizes=9&price=1000

4. Delete the product

- Method: DELETE
- Endpoint: http://localhost:8100/delete-shoe?id=101

5. Update the product

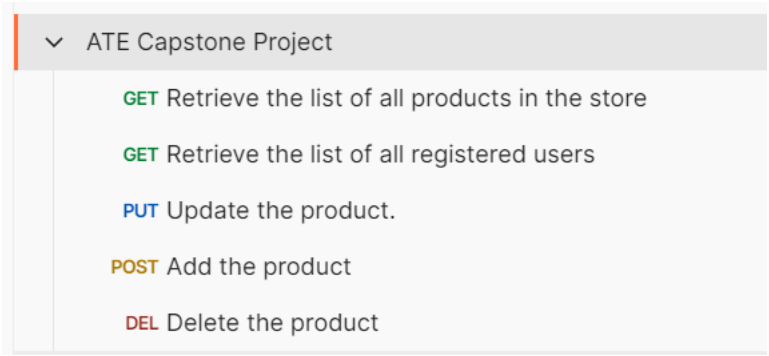
- Method: PUT

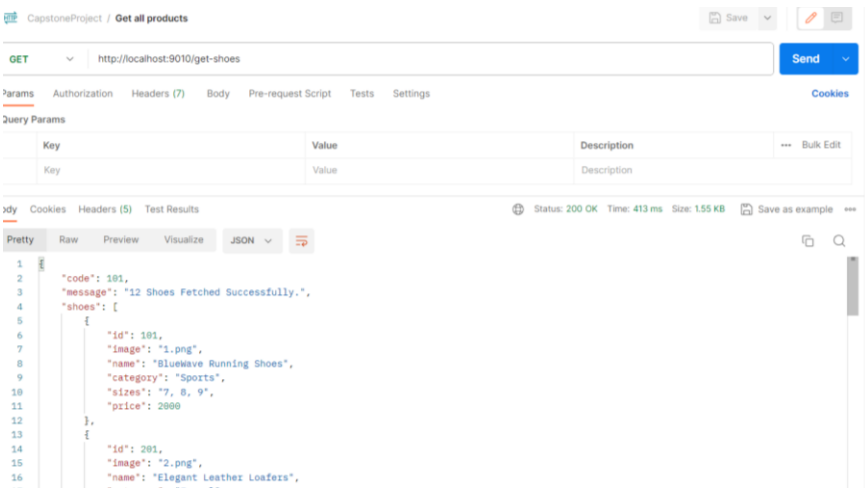
- Endpoint: http://localhost:8100/update-shoe

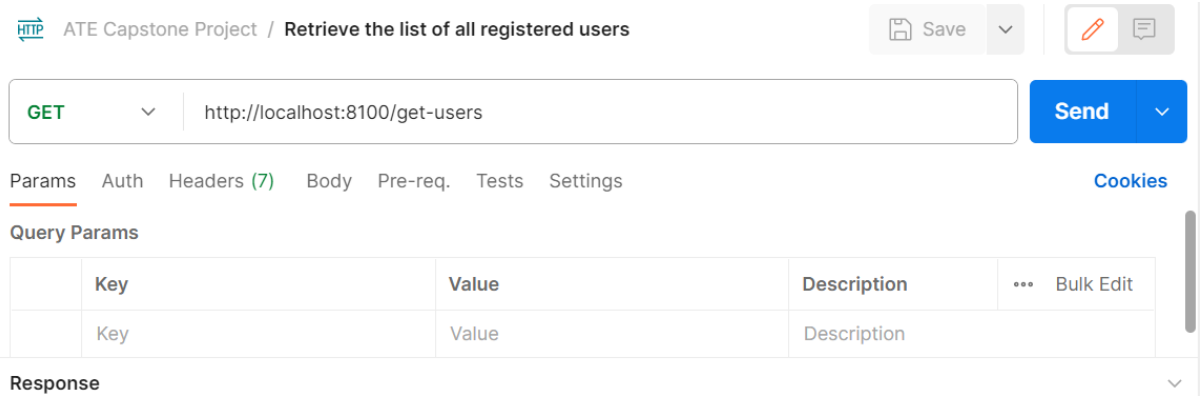
- Request Body:

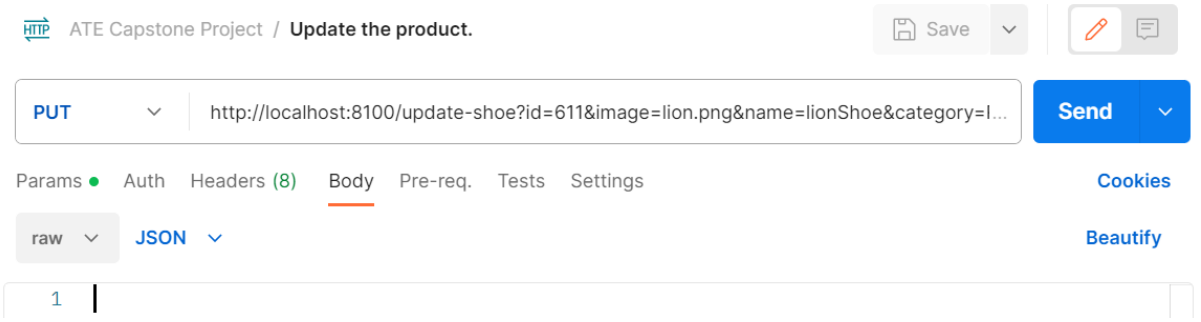
```
{
  "id": 101,
  "name": "Updated Shoe Name",
  "category": "Updated Category",
  "sizes": "8,9,10",
  "price": 1500,
  "image": "updated_image_url"
}
```

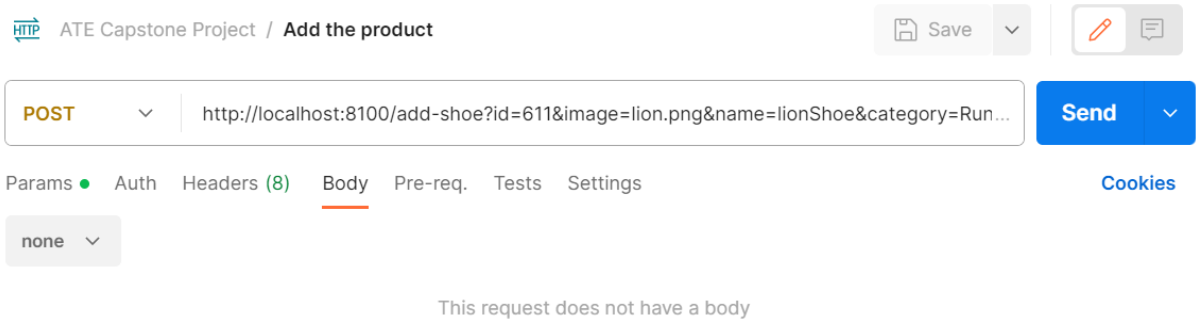
Postman API Testing:

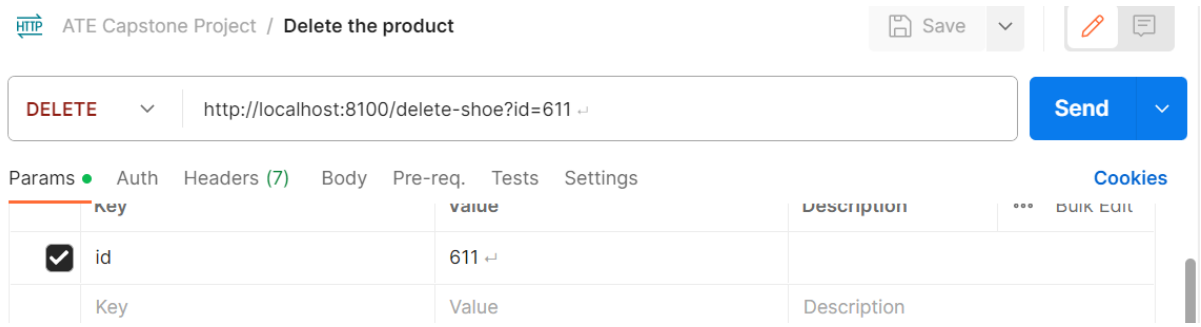




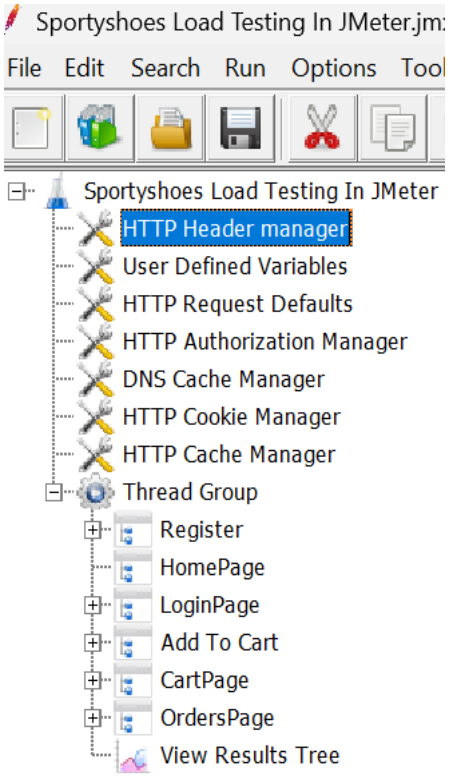

ATE Capstone Project / Retrieve the list of all registered users
Save
GET
http://localhost:8100/get-users
Send
Params Auth Headers (7) Body Pre-req. Tests Settings
Cookies
Query Params
Key
Value
Description
Bulk Edit
Key
Value
Description
Response

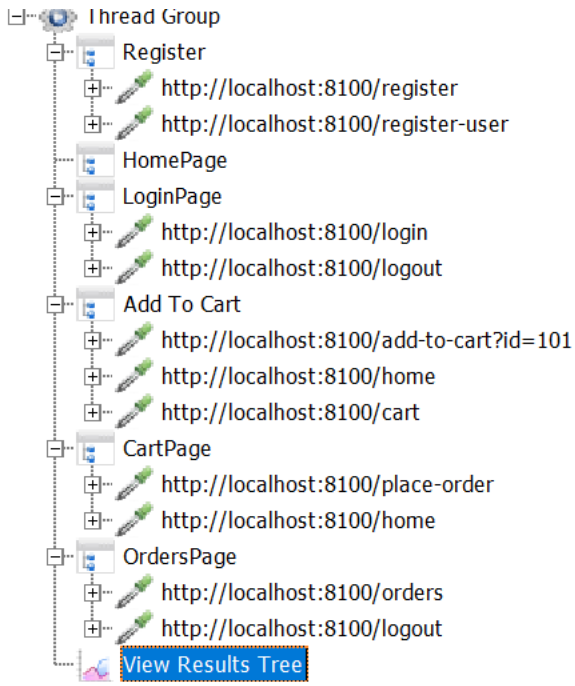

ATE Capstone Project / Update the product.
Save
PUT
http://localhost:8100/update-shoe?id=611&image=lion.png&name=lionShoe&category=I...
Send
Params Auth Headers (8) Body Pre-req. Tests Settings
Cookies
raw
JSON
Beautify
1

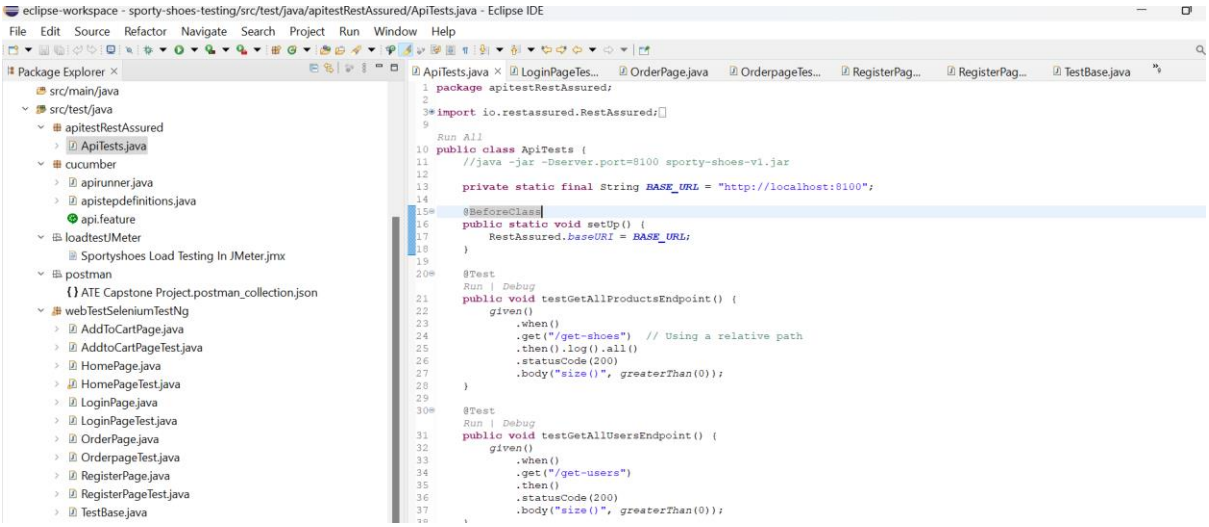

ATE Capstone Project / Add the product
Save
POST
http://localhost:8100/add-shoe?id=611&image=lion.png&name=lionShoe&category=Run...
Send
Params Auth Headers (8) Body Pre-req. Tests Settings
Cookies
none
This request does not have a body


ATE Capstone Project / Delete the product
Save
DELETE
http://localhost:8100/delete-shoe?id=611
Send
Params Auth Headers (7) Body Pre-req. Tests Settings
Cookies
id
611
Key
Value
Description

JMeter Load Testing:







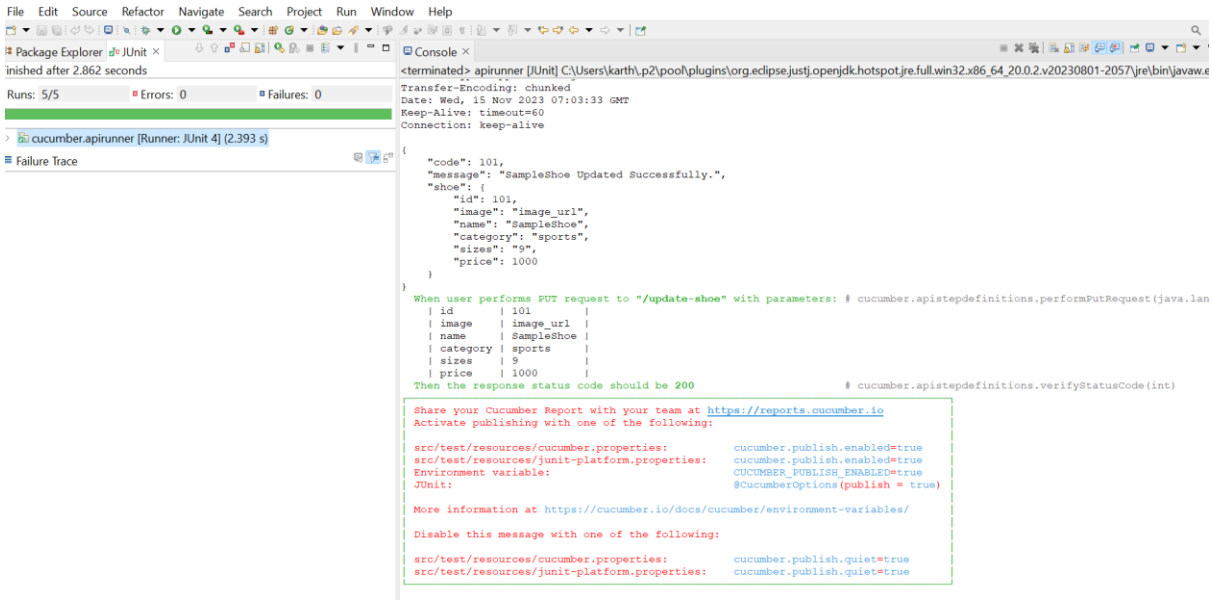
Console × Results of running class ApiTests

<terminated> ApiTests [TestNG] C:\Users\karth\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_20.0.2


```
            "image": "11.png",
            "name": "ZenFlex Sports Sneakers",
            "category": "Sports",
            "sizes": "7, 8, 9",
            "price": 6000
        },
        {
            "id": 311,
            "image": "12.png",
            "name": "TrailBlaze Adventure Shoes",
            "category": "Sports",
            "sizes": "5, 6, 9",
            "price": 7500
        },
        {
            "id": 101,
            "image": "image_url",
            "name": "SampleShoe",
            "category": "Running",
            "sizes": "9",
            "price": 1000
        }
    ]
}
PASSED: apitestRestAssured.ApiTests.testGetAllUsersEndpoint
PASSED: apitestRestAssured.ApiTests.testDeleteProductEndpoint
PASSED: apitestRestAssured.ApiTests.testAddProductEndpoint
PASSED: apitestRestAssured.ApiTests.testGetAllProductsEndpoint
PASSED: apitestRestAssured.ApiTests.testUpdateProductEndpoint

===============================================
    Default test
    Tests run: 5, Failures: 0, Skips: 0
===============================================


===============================================
Default suite
Total tests run: 5, Passes: 5, Failures: 0, Skips: 0
===============================================
```



GitHub repository : https://github.com/Karthick-Office/Project01.git

Sporty Shoes Testing Framework Using Postman, REST Assured, and JMeter, Selenium TestNG Project is present under the “Phase 4 End Project” folder in the My GitHub repository