**Automation Testing Capstone Project**

**Create a Testing Framework for Sporty Shoes Website**

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Github : <https://github.com/arayush841/ATE-CapstoneProject-AyushRaj-ayushra.git>

**Problem Statement and Motivation Real-Time Scenario:**

Sporty Shoes has an e-commerce website that has the following existing features in place: I used <https://neemans.com/> for the task.

• Users can view products; I wrote some functionality for that also.

• For making purchases, user can login and signup for the same.

• Users can add multiple items to their cart and checkout.

• Users have a dashboard that lets them edit their profile, view past purchases, and view their cart

• Once users do a checkout, the items are cleared from their cart and an order is generated which is stored in their order history The above application is already functional.

**What is needed now is to add a testing layer that will ensure that everything is passed through QA.**

**Task:**

The following tasks outline the testing framework creation:

1. Add additional code to the original project to add a REST API module. This module will have two API endpoints:

• Retrieve the list of all products in the store

• Retrieve the list of all registered users

2. Create Selenium scripts to test all the pages in the web app

3. Do unit testing for all the backend classes and methods

4. Create JMeter scripts to do load testing of the homepage and the product detail page

Execute TestNG:

1. Import the project TestNGproject in eclipse IDE
2. Find TestCase001.java
3. Execute TestCase001 using TestNG

Execute Jmeter:

1. Locate jmx file which is stored in loadTesting folder.
2. In Jmeter import the .jmx file.
3. Press ctrl r to run the recording.

**Task 1 Screenshots:**

**For products:**

**A screenshot of a computer

Description automatically generated**

**For users :**

**A screenshot of a computer

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**Task 2 & 3 Screenshots :**

**Folder structure :**

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**LibraryClass:**

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Description automatically generated**

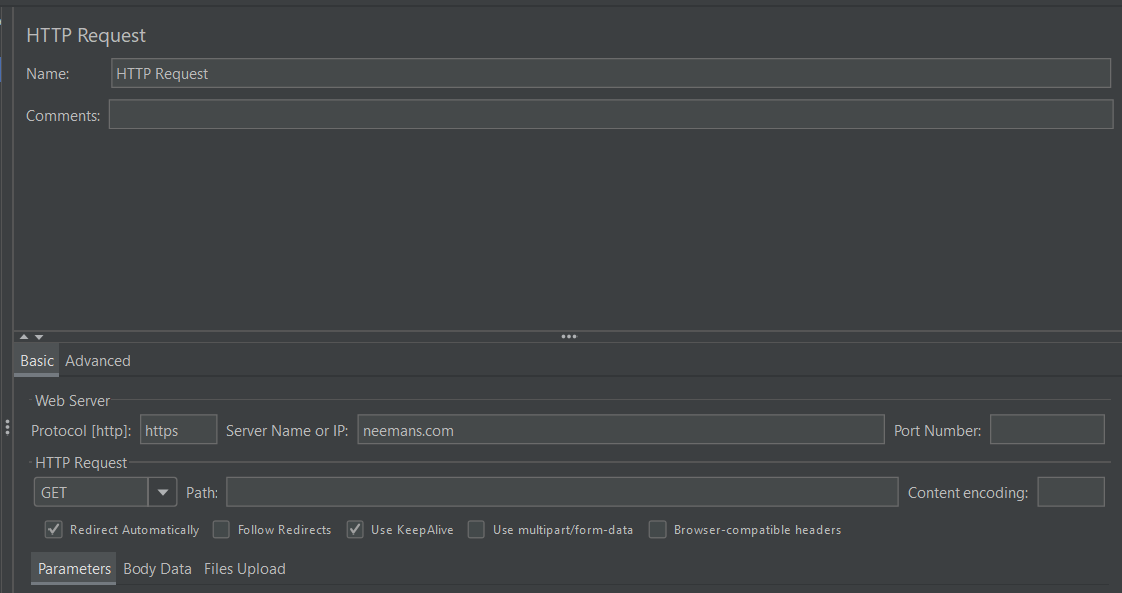
There’s a pop-up in the page due to which the testcase fails and furthermore steps are not carried out. All the tasks are completed login, signup, product view, add to cart.

The popup:

A screenshot of a website

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**Task 4 Screenshots :**



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Result of the load testing .

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