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This document captures key debugging scenarios encountered while configuring and running performance tests for an eCommerce web application using Apache JMeter.

### 1. CSRF Token Debugging (403 Forbidden Issue)

#### **Problem Faced:**

The Login API returned a 403 Forbidden response during JMeter execution.

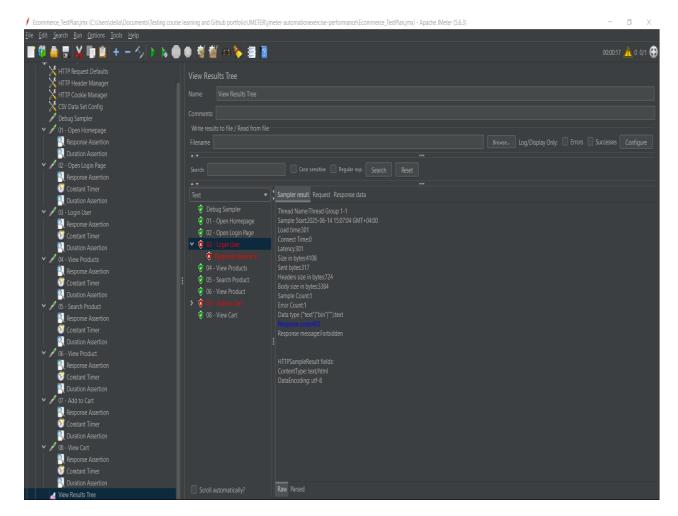
# **Debugging Approach:**

- Opened the browser's Developer Tools and switched to the Network tab.
- Observed the login request payload to see what was actually being sent.
- Found that the request included three fields:
  - o email
  - password
  - o csrfmiddlewaretoken
  - Resolution:
    - ✓ Added a Regular Expression Extractor in JMeter to capture the csrfmiddlewaretoken token from the login page's HTML response.
    - ✓ Passed the extracted token in the login POST request using \${ csrfmiddlewaretoken}.

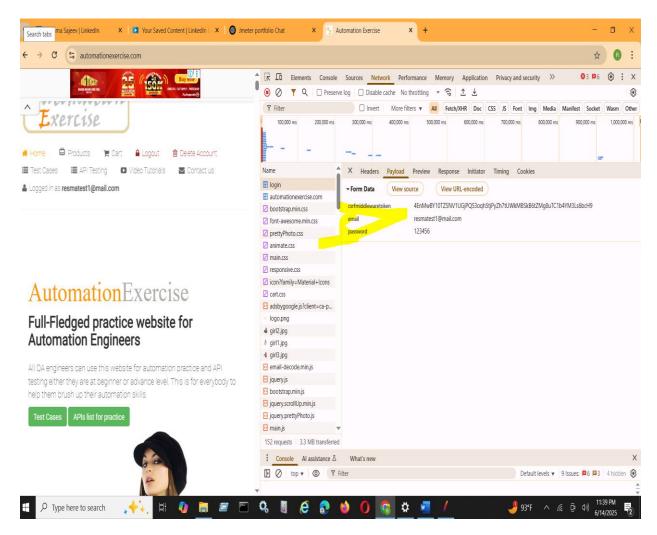
#### Outcome:

Login succeeded. All subsequent steps also passed successfully.

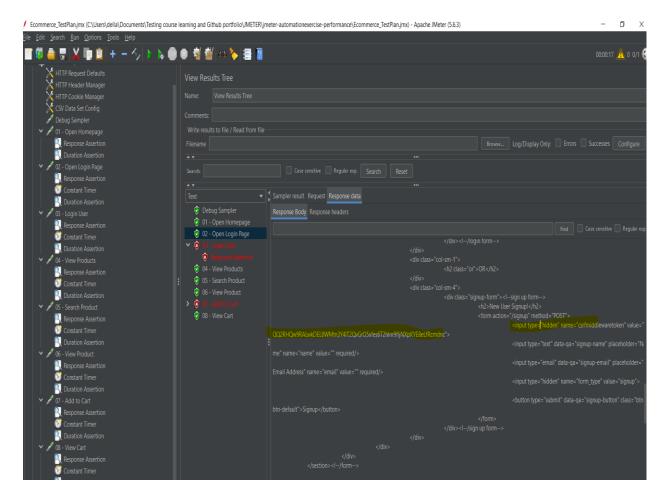
Screenshot\_1->403 error



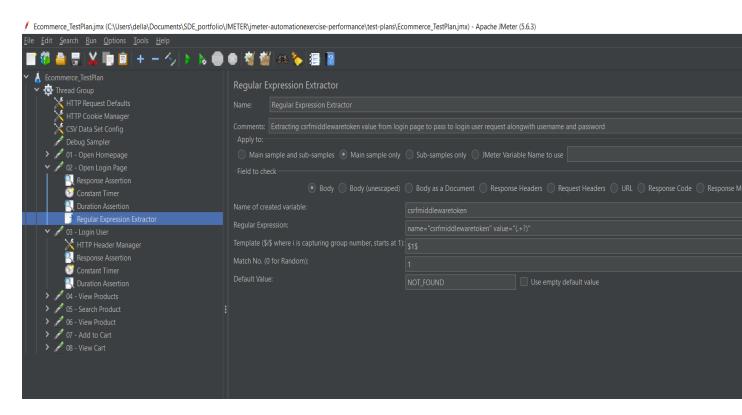
Screenshot 2->debugging using devlopertools in browser



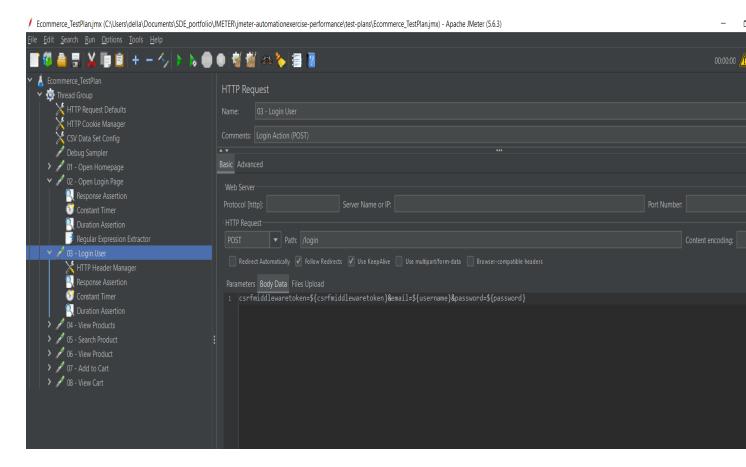
Screenshot 3->analyzing the csfrmiddlewaretoken from Response data of login page



Screenshot\_4 -> Added Regular Expression Extractor under Open Login page request to store the token value in variable csfrmiddlewaretoken



Screenshot 5- In Login user POST request provided request body with body data including csfrmiddlewaretoken along with username and password.



# 2) Add to Cart - 403 Forbidden Error

#### Issue:

The JMeter request to the **/add\_to\_cart** endpoint failed as well as the request method given was POST which is wrong.

### **Debugging Approach:**

- Opened **Developer Tools** in the browser and triggered a product add-to-cart action manually.
- Monitored the network requests to inspect the correct URL path, query parameters, and request method.
- Realized the original JMeter request was missing required query parameters and was having POST method instead of GET method.

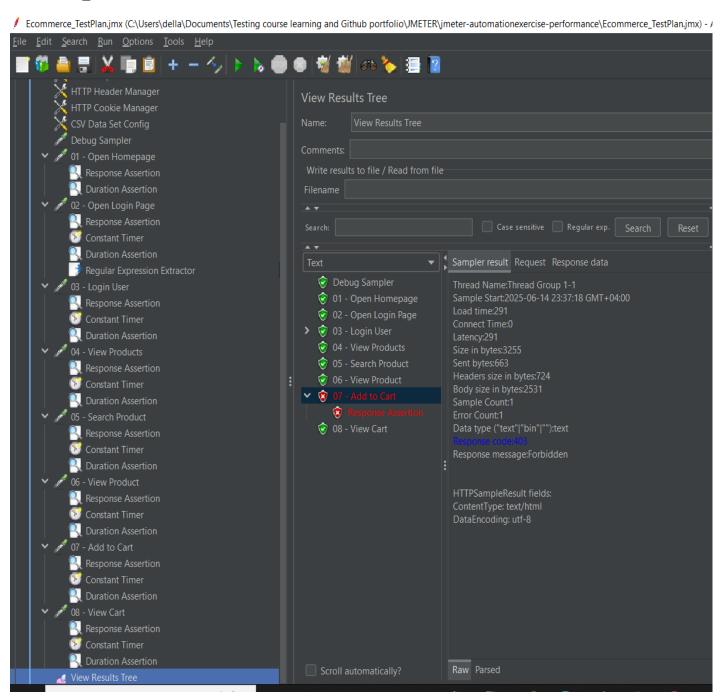
### **Fix Implemented:**

- ✓ Corrected the URL path in JMeter to include the required query string:
- ✓ Ensured the request method matched what was observed in the browser (GET).

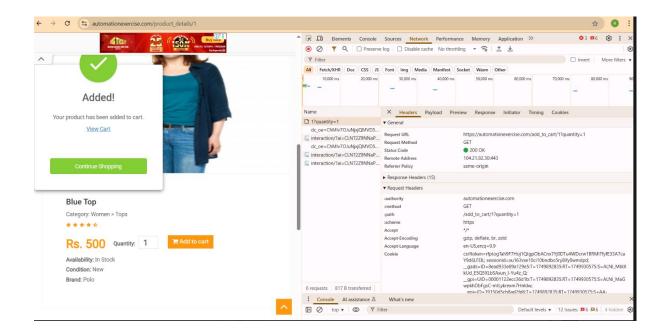
#### **Outcome:**

✓ The request successfully added the product to the cart, resolving the 404 error.

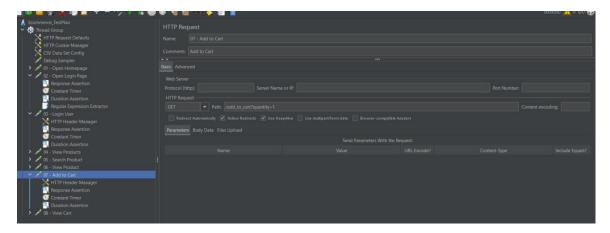
#### Screenshot 1-403 error



Screenshot 2- Analyzed the path and request method through developertools



# Screenshot\_3-Update correct path and request method



### 3) Assertion Failed – Incorrect Response Check

- Issue: Assertion failed because I used an incorrect text pattern.
- Details: The assertion was looking for "Added to Cart" in the response body.
- **Fix:** Checked the actual response data in the View Results Tree and updated the assertion to match the correct response text.
  - After this fix, the assertion passed.

