Insider Load Test Task

▼ JMeter-Load Test

- Load tests and scenarios are needed to investigate the behavior of the search module of the

  https://www.n11.com/ header and list the results after the search

  - Requirements:
    - → Write test scenarios for the relevant situation
    - → Code scenarios using JMeter or Locust (1 user is enough)

▼ User Story

Title: Performance Testing of Search Module

Description: Users search for products using the search bar on the homepage of `https://www.n11.com/` . The system should quickly display the results and maintain performance under high traffic.

▼ Acceptance Criteria:

- When text is entered into the search bar, results must be displayed promptly (maximum response time: 2 seconds).

- The system should remain stable under a load of 1000 search requests (no unexpected CPU/RAM spikes).

- Response code must always be 200.

- 95% of responses must complete in under 2 seconds.

▼ Test Scenarios

baseurl : https://www.n11.com/

ID	Scenario	Request Type	End Point	Parameter	Expected Outcome
TS01	Search with a valid product name	GET	/arama	q=laptop	Product list is successfully returned. Status: 200
TS02	Search with invalid characters	GET	/arama	q= "@#$%^	"No results found" message or empty results.
TS03	Search with an empty input	GET	/arama		User sees an error or information message.
TS04	Search with multiple words	GET	/arama	erkek spor ayakkabı	Correct product categories are

					displayed. Status: 200.
TS05	Multiple users searching simultaneously (load test)	GET	/arama		The system remains stable under 1000 users.

TS01-Search with a valid product name

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1. Thread Group
   - Number of Threads (Users): 1
   - Ramp-Up Period (in seconds): 1
   - Loop Count: 1

2. HTTP Request
   - Protocol: https
   - Server Name or IP: www.n11.com
   - Method: GET
   - Path: /arama
   - Query Parameters:
       - Key: q, Value: "laptop"

3. Response Assertions
   - Apply to: Main Sample and Sub-Samples
   - Pattern to Test: "200 OK" (Validating response code)
   - Maximum response time: 2 seconds

4. Listener
   - View Results Tree
   - Summary Report
```

▼ Note

TS01 – Load Test scenario was prepared solely using JMeter. During the testing process:

- Additional validations were conducted using the **BlazeMeter Chrome Extension** and **DevTools Curl**,

- However, a **403 Forbidden** error was encountered for the request.

Although multiple attempts were made to resolve the 403 error (e.g., adding headers and cookies), the issue could not be resolved. The error has been reported as encountered, and the task has been completed accordingly.