IT314: Software Engineering

Non-Functional Testing

Group: 15 Conference Management System

IDs	Member Name
202001117	PARVA BHARATKUMAR DHAMI
202001122	MONPARA SUMIT RAJESHBHAI
202001128	MEGHABEN RATHWA
202001132	SONAGARA SARTHAK MOHANBHAI
202001154	METKEL HARSHKUMAR ANANDBHAI
202001162	PADHIYAR KARAN HARESHBHAI
202001172	PATEL VEDANT HARSHADBHAI
202001176	MANGUKIYA JENISH MAHESHBHAI
202001177	PRAJAPATI PARTH SURESHBHAI

1) Security

Authentication: Our Conference management system(CMS) has a secure authentication process to ensure only authorized users can register in conferences.

Encryption: All the sensitive data such as user's password is encrypted while storing into MongoDB Database using the inbuilt encryption library of javascript called 'bcrypt'.

2) Reliability

Upto 100 authorized users our website ensures that more than 99% users can access our system without any failure.However, the website's ability to handle traffic and maintain high availability may depend on various factors, including the website's infrastructure, server capacity, network load, and the users' internet connectivity etc.

3) Availability

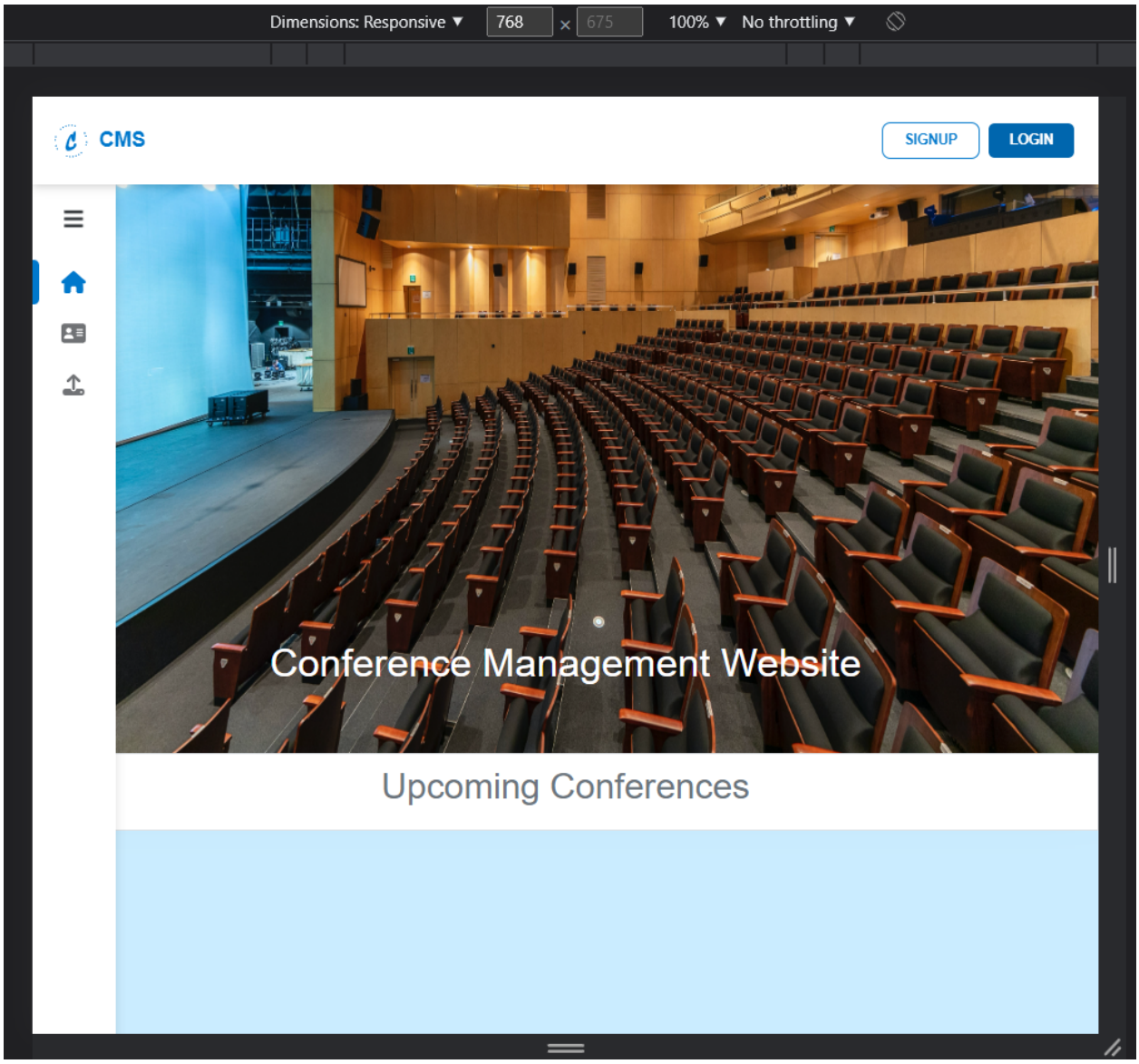
Our system is 24x7 available for any user from anywhere. Our server serves any request in less than 5 seconds in idle case.

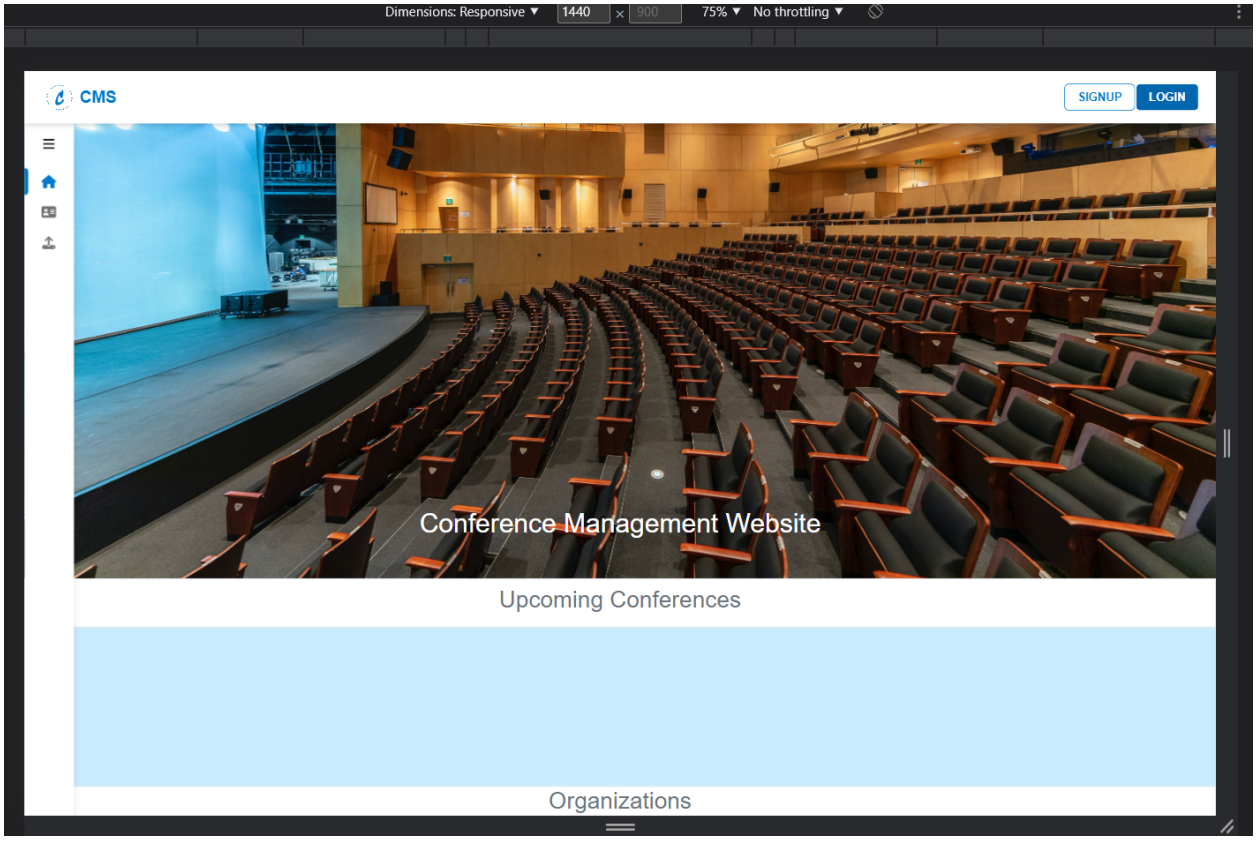
4) Flexibility

Our system is able to accommodate any future changes as per requirement of organizations and users of our websites.CMS is flexible and easy to use for any user or organization

5) Responsiveness

We try to make our system as responsive as we can., Such that any users can interact with the system easily using any device.



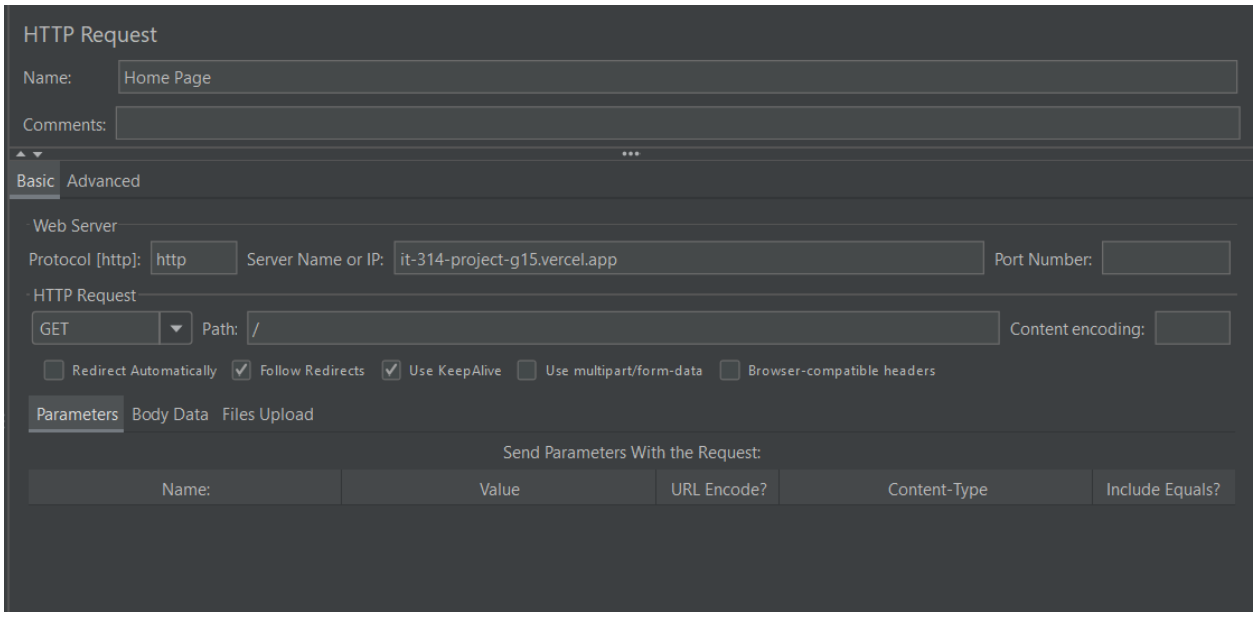

Dimensions: Responsive
1440
900
75%
No throttling
CMS
SIGNUP
LOGIN
Conference Management Website
Upcoming Conferences
Organizations

6) Performance Testing (Load Testing)

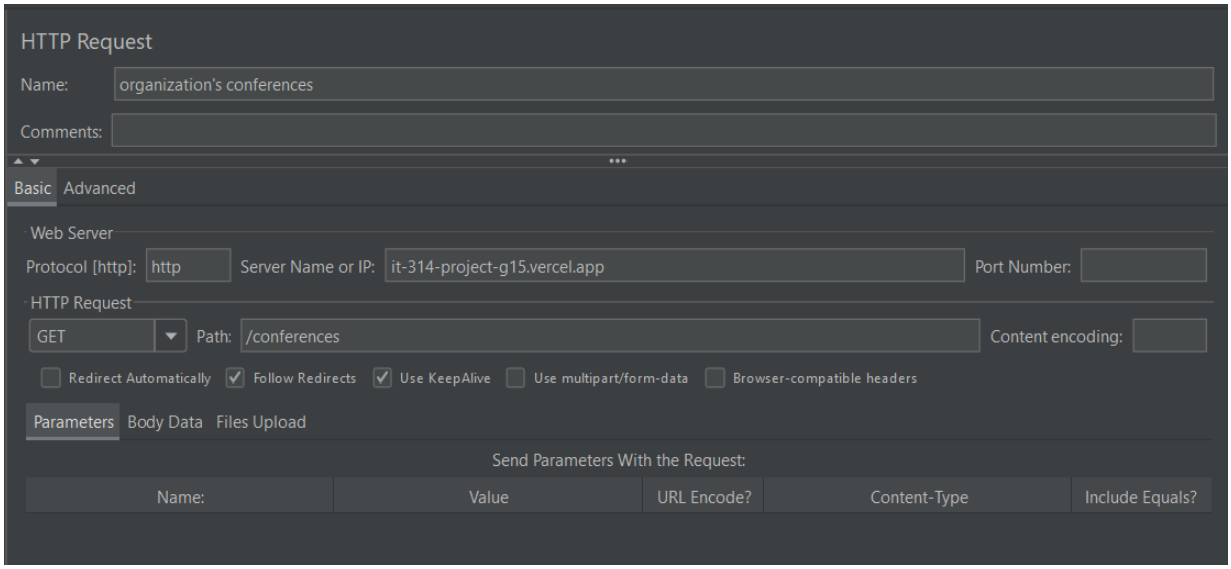
Tool used for load testing : ***Apache Jmeter***

Running Tests on (web pages) our ***deployed*** website

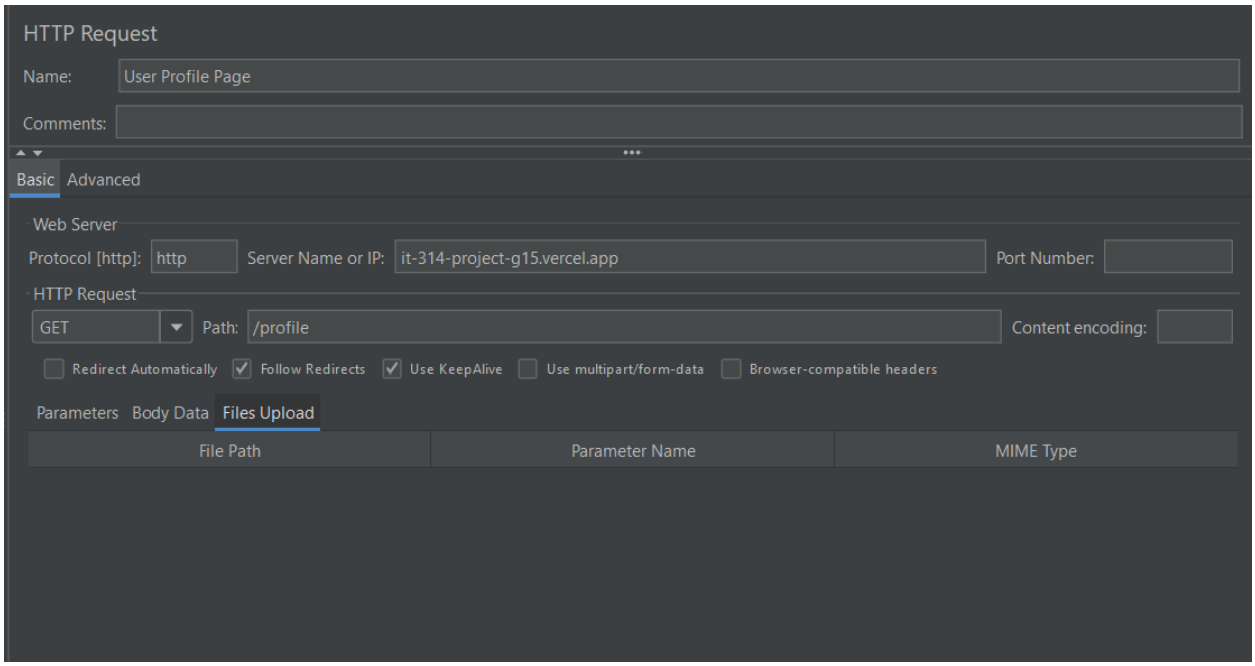
1) Home Page



2) Organization's conferences

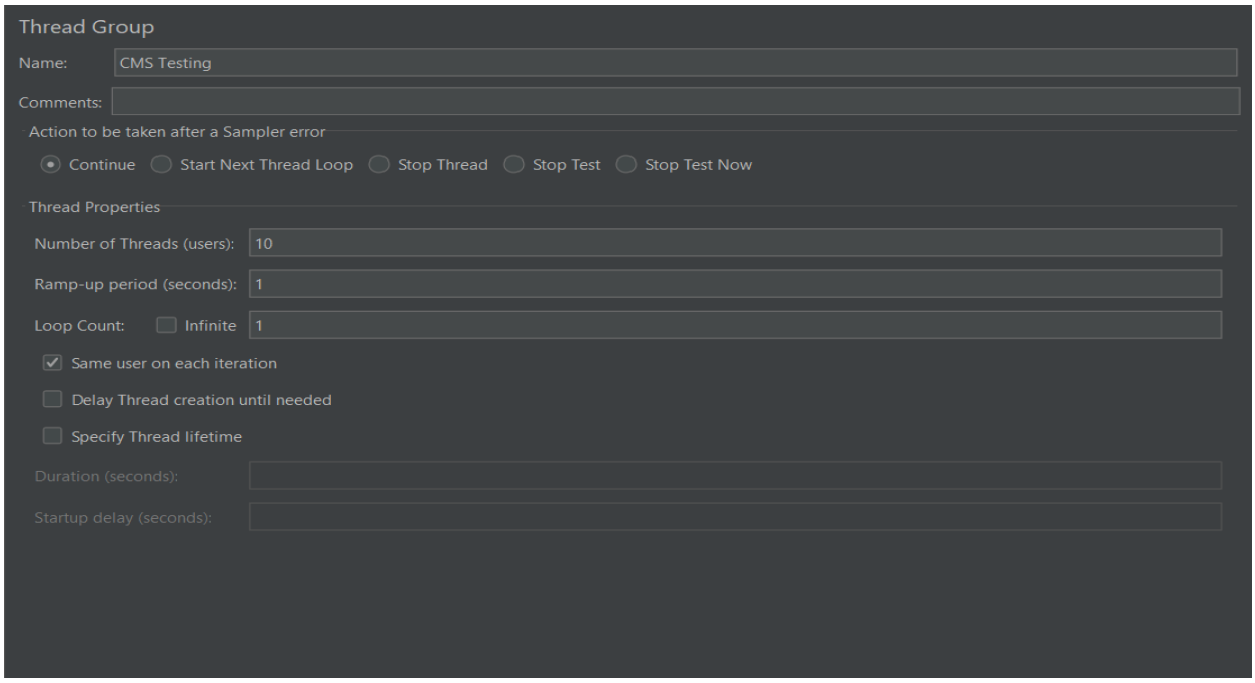


3) User Profile Page

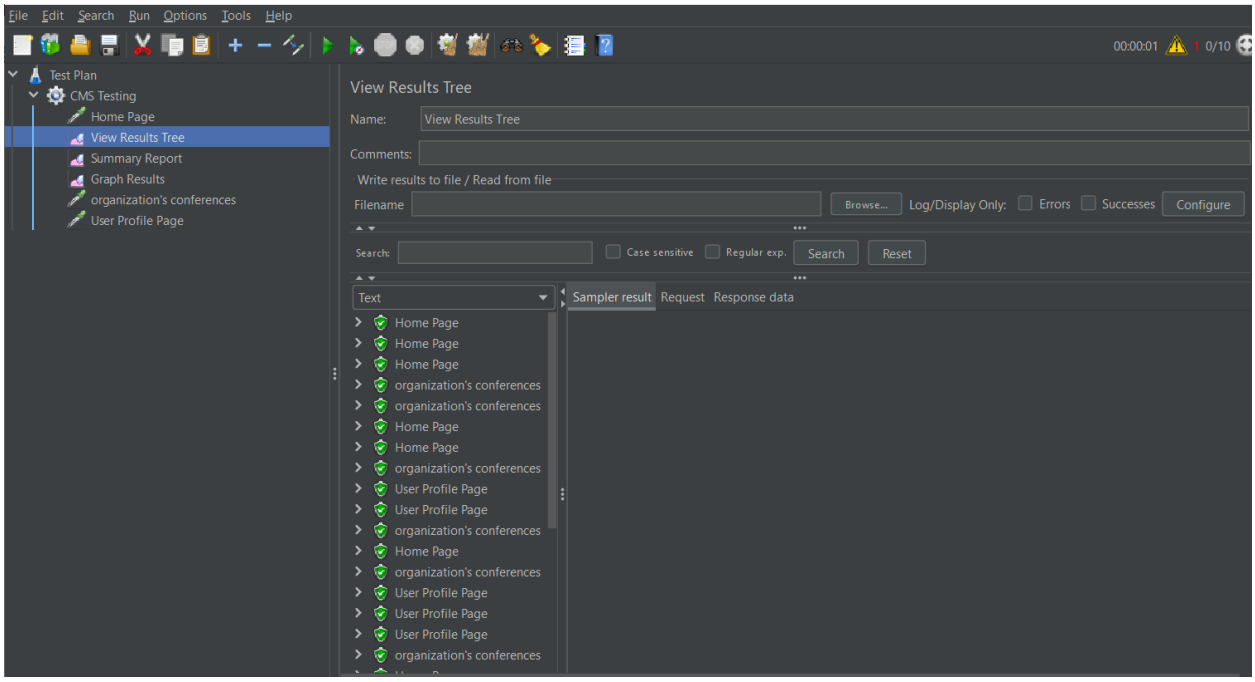


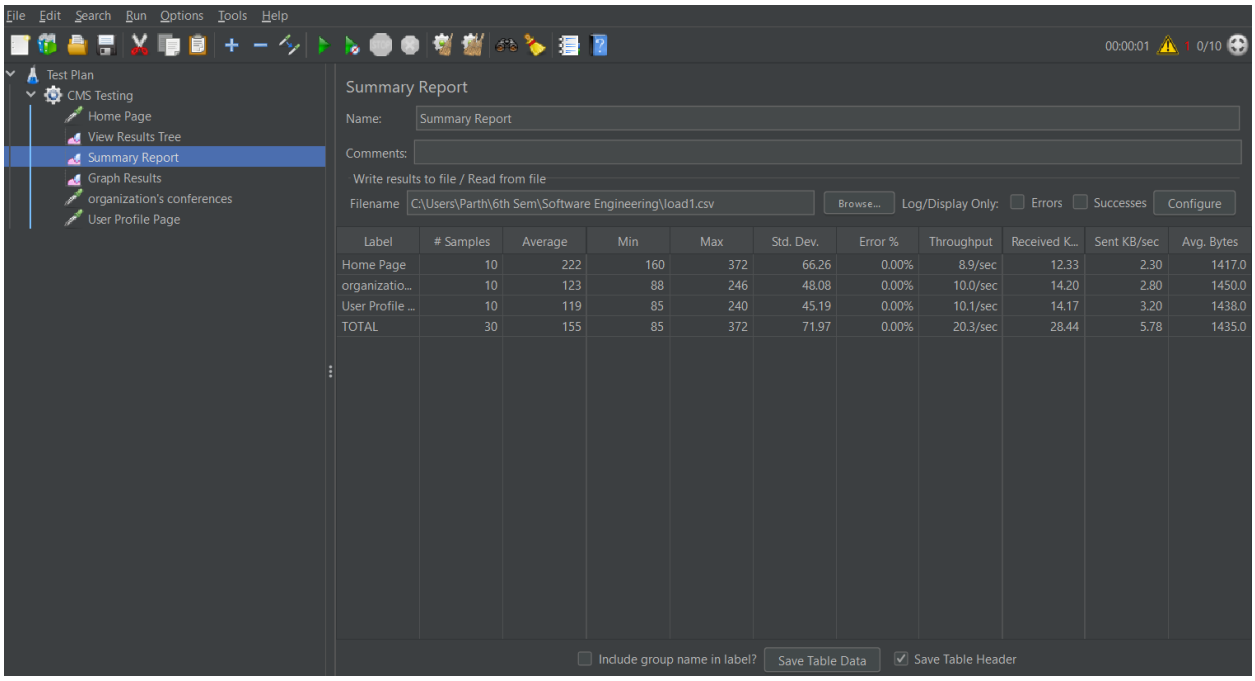
Test 1

- Test Parameter



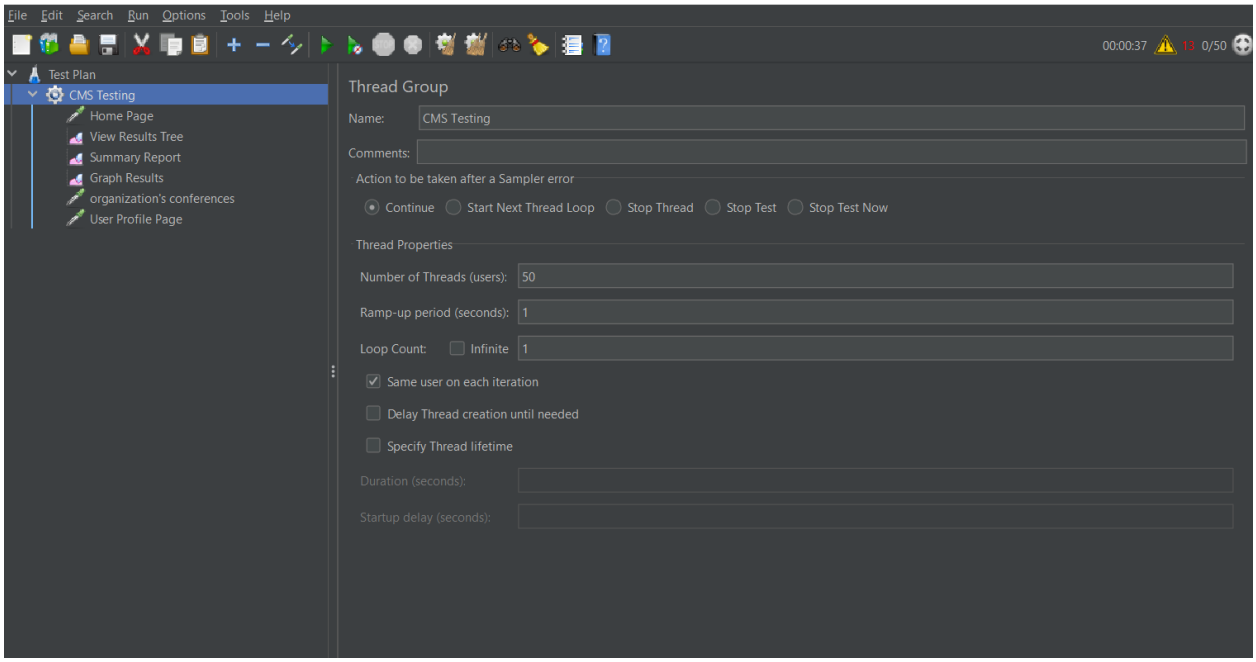
- Result Obtained



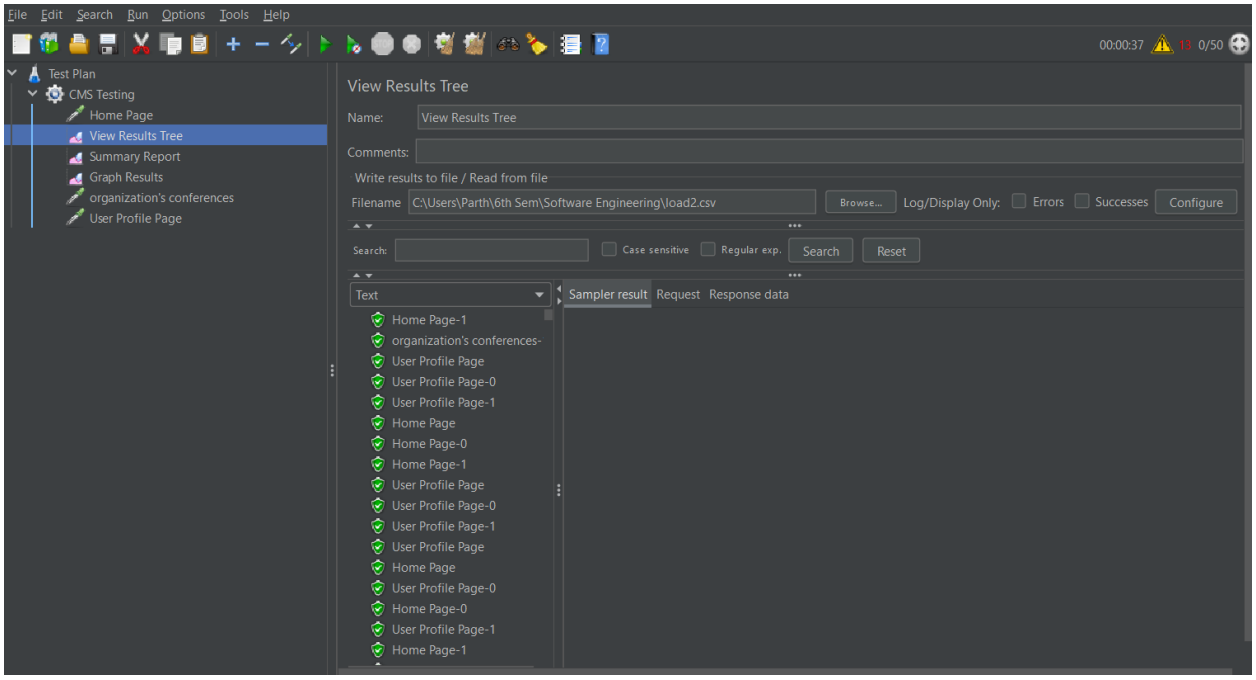


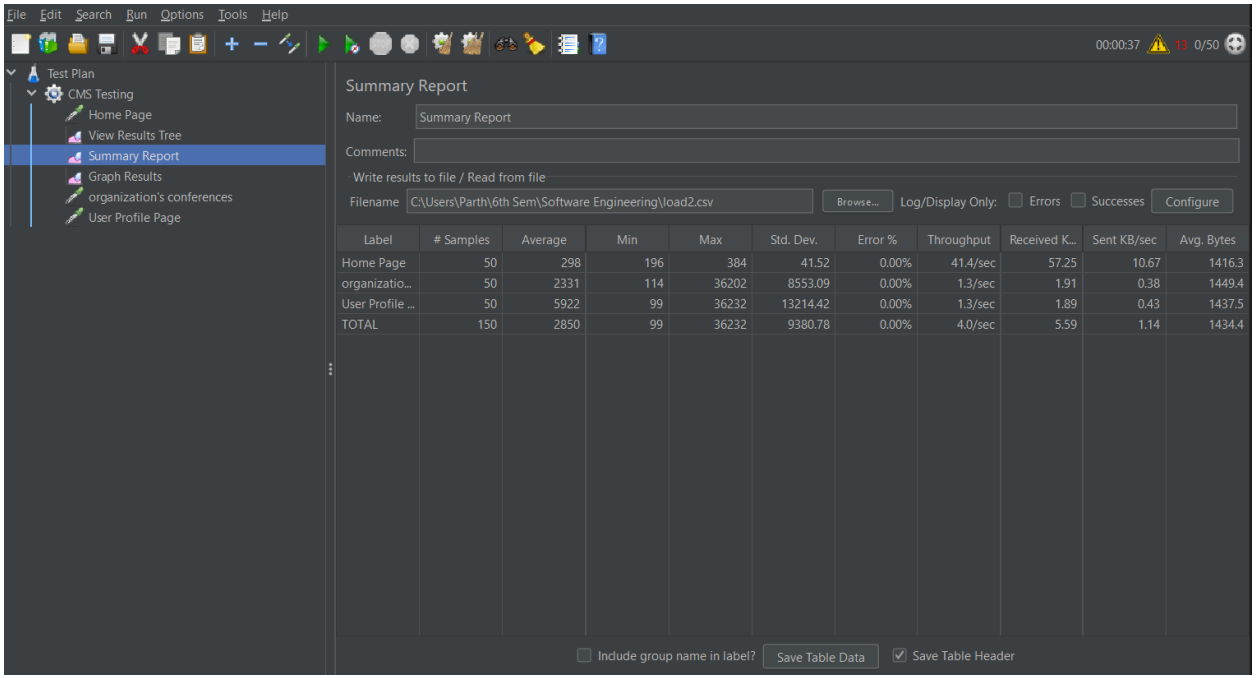
Test 2

- Test Parameter



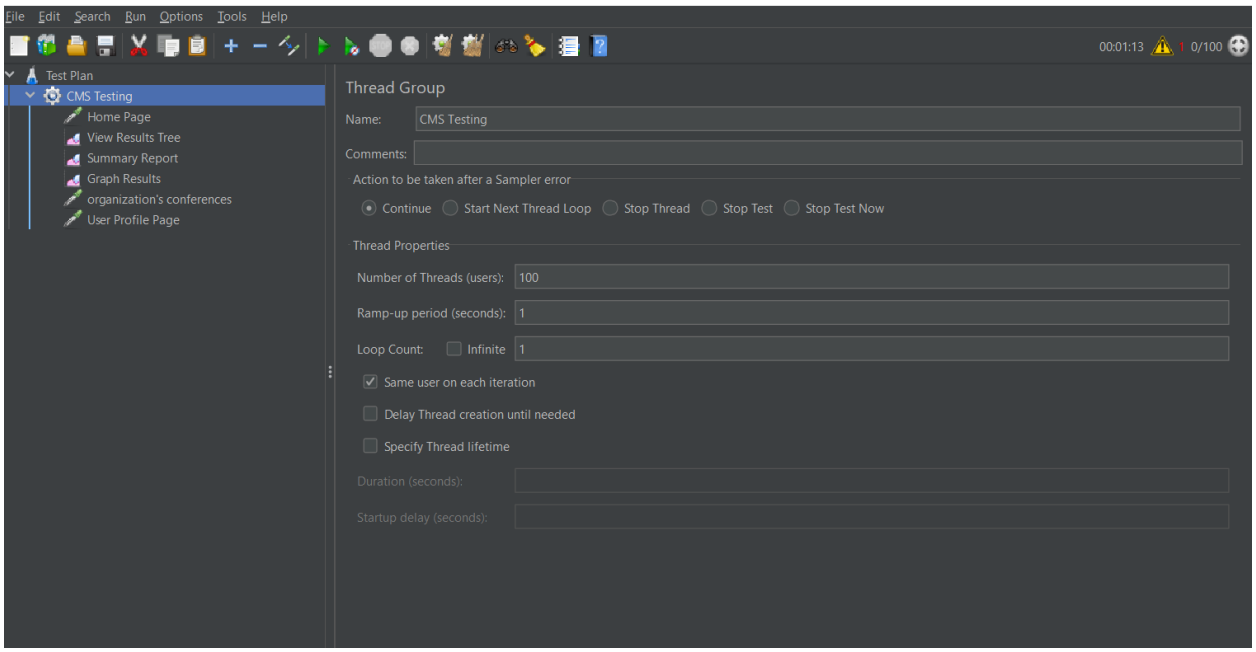
- Result Obtained



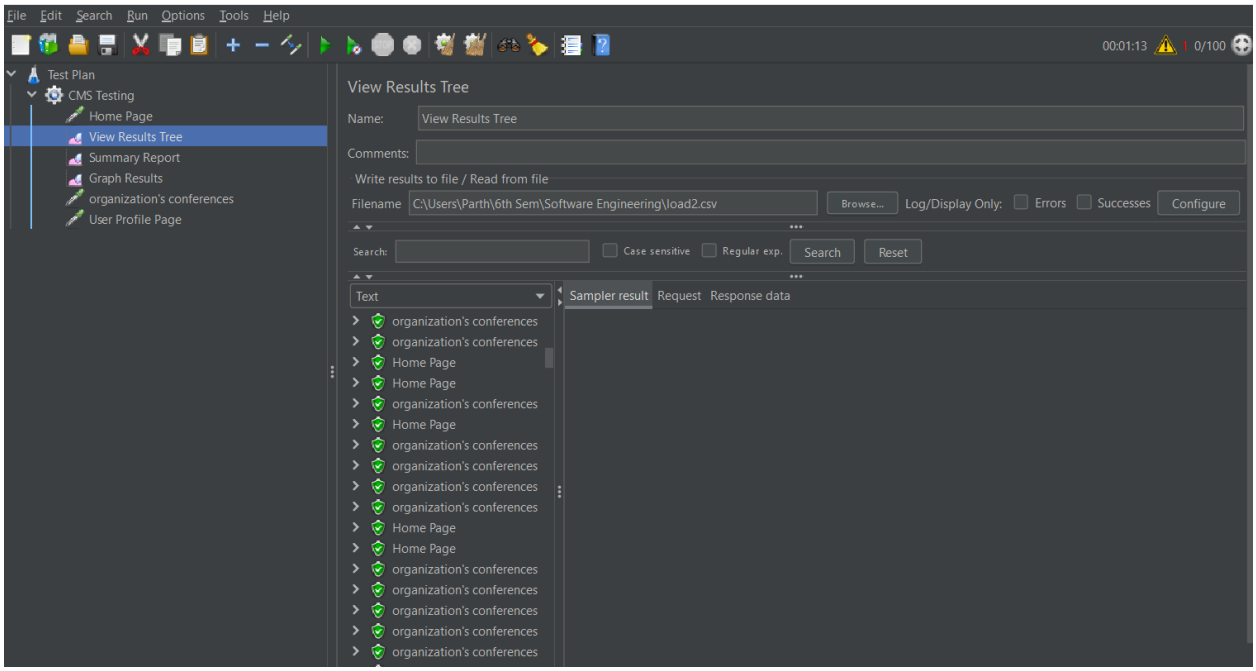


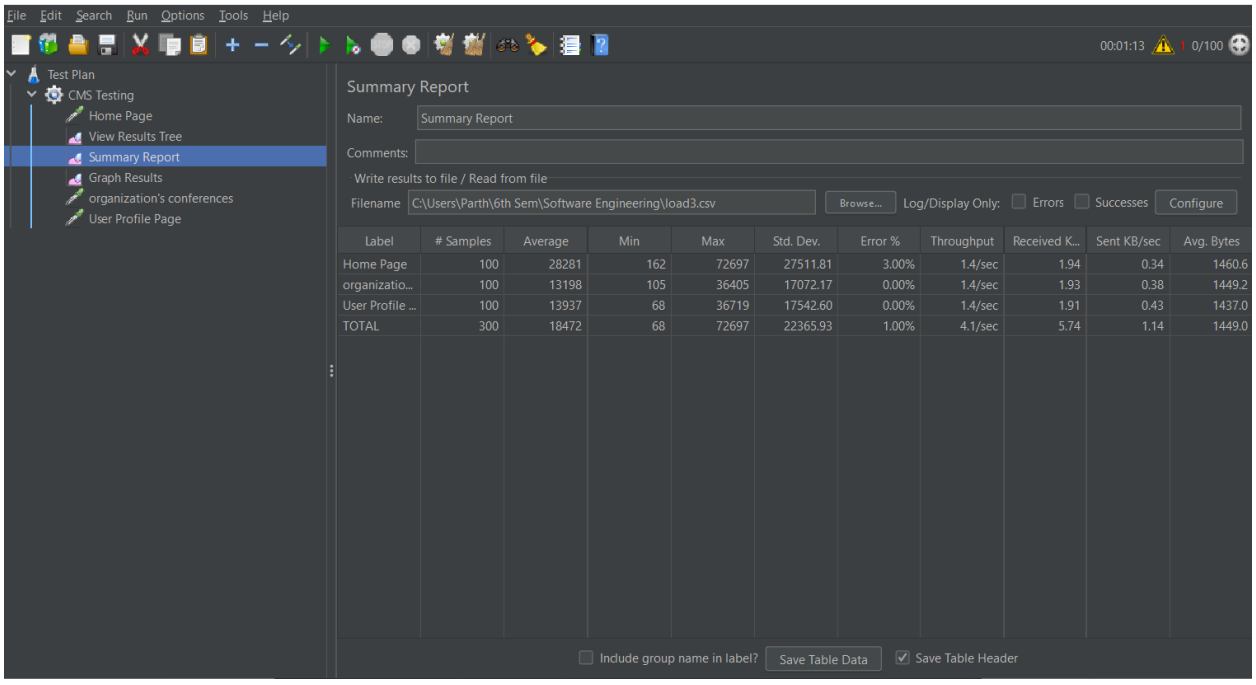
Test 3

- Test Parameter



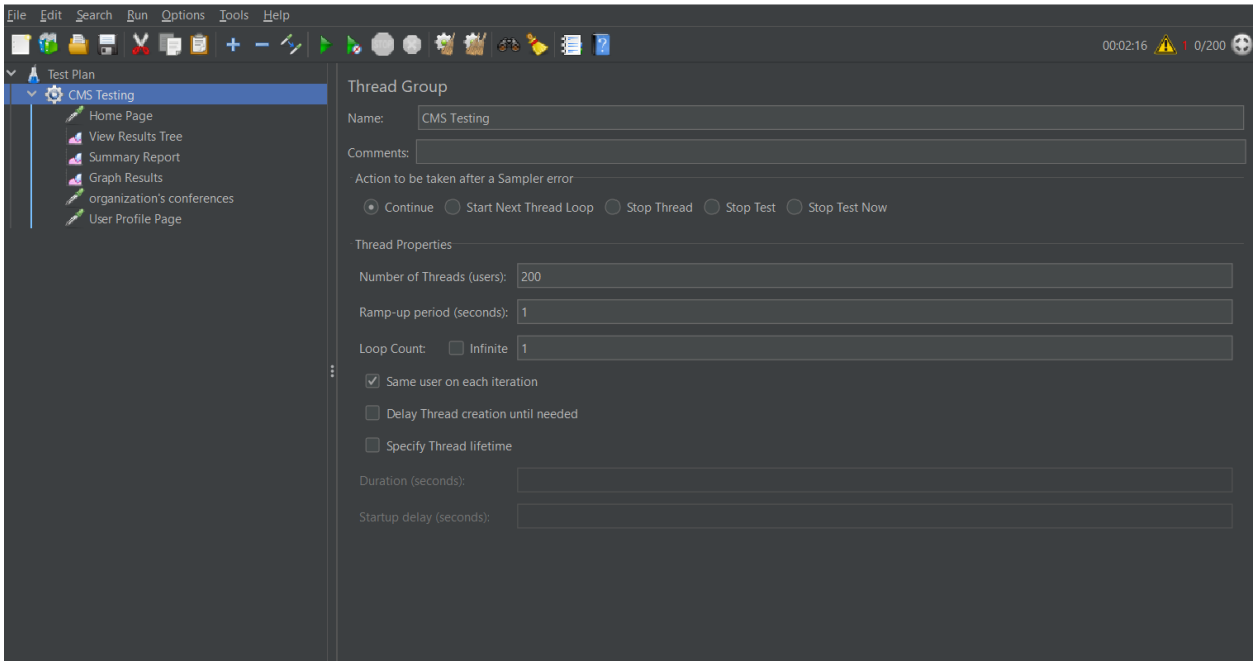
- Result Obtained



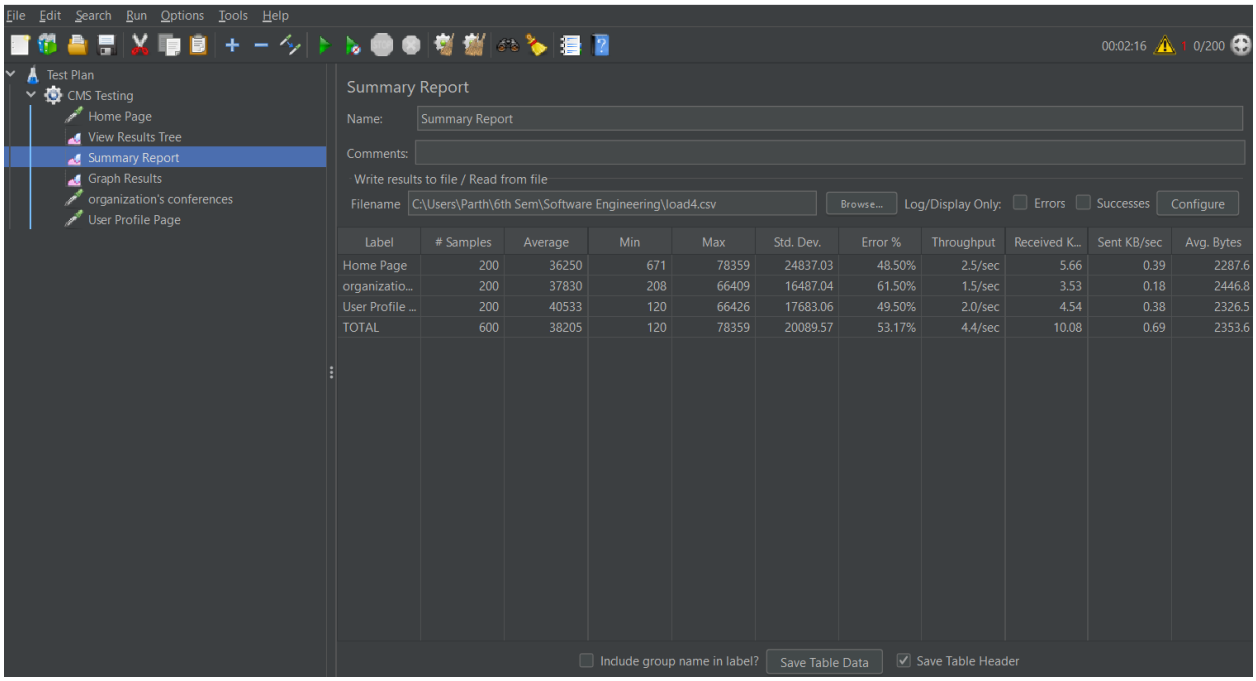


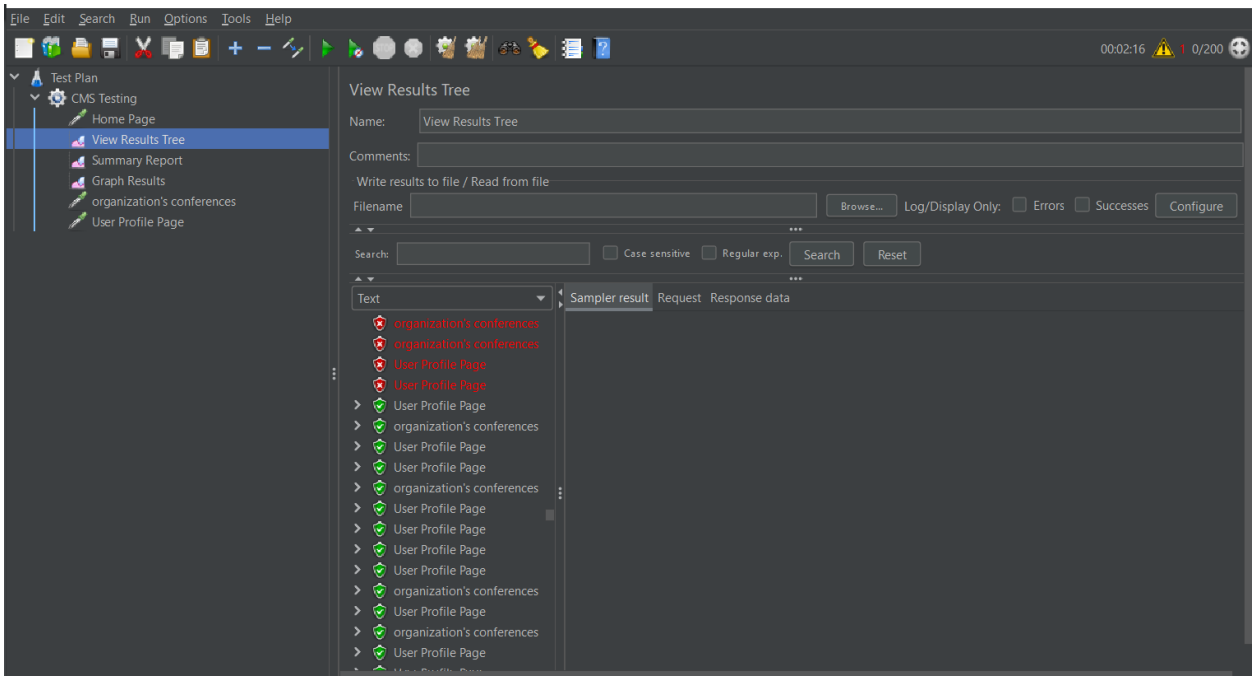
Test 4

- Test Parameter



- Result Obtained




File Edit Search Run Options Tools Help
00:02:16 1 0/200
Test Plan
CMS Testing
Home Page
View Results Tree
Summary Report
Graph Results
organization's conferences
User Profile Page
View Results Tree
Name: View Results Tree
Comments:
Write results to file / Read from file
Filename
Browse...
Log/Display Only: Errors Successes
Configure
Search:
Case sensitive
Regular exp.
Search
Reset
Text
Sampler result
Request
Response data
organization's conferences
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