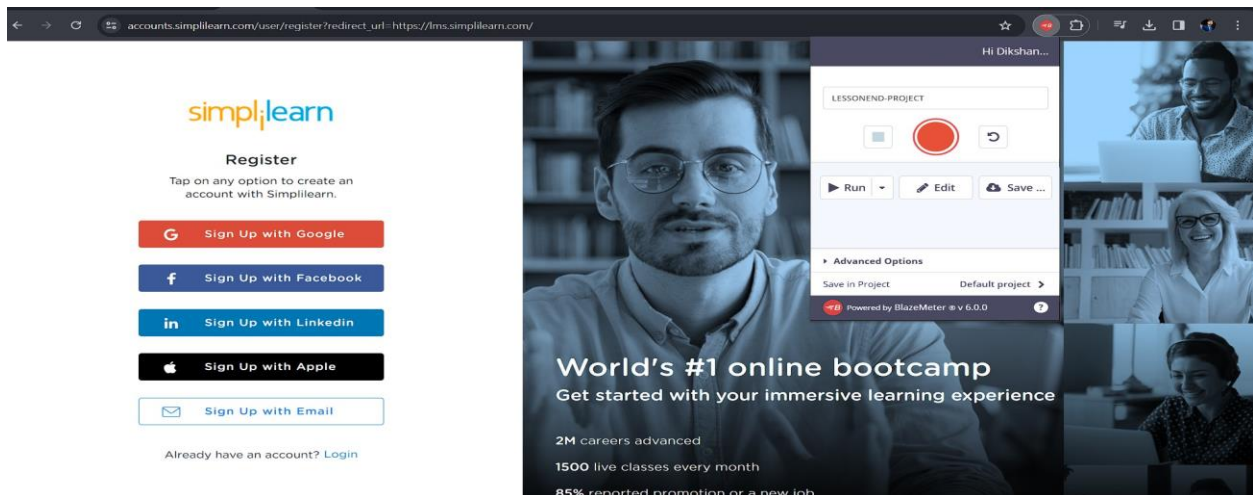


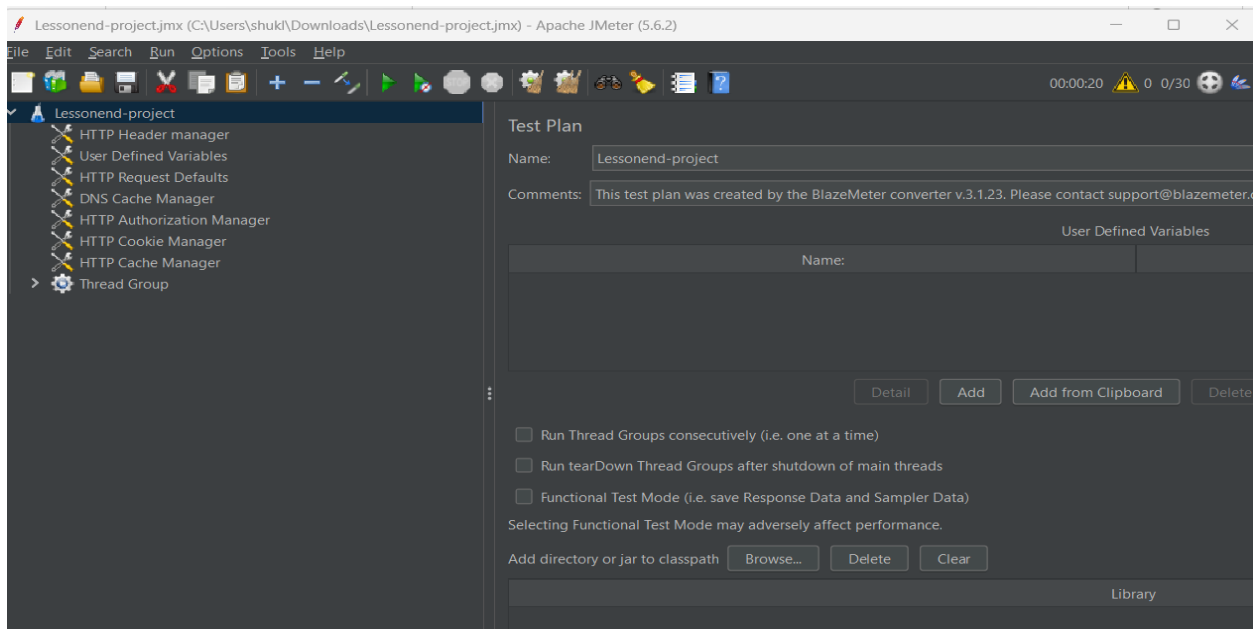
Lesson-end Project : Evaluate the Performance of an E-learning Application Using Jmeter.

(Writeup/Source Code):

In the first step we are recording the simplilearn script using Blaze Meter tool, However there is a basic step to record script through Jmeter where steps are Test Plan -> Add -> Non-Test Element -> HTTP(S) Test Script Recorder through which we can record but due to security features it is not allowing proxy server to reach. So, we are using Blaze Meter to record script as shown below:

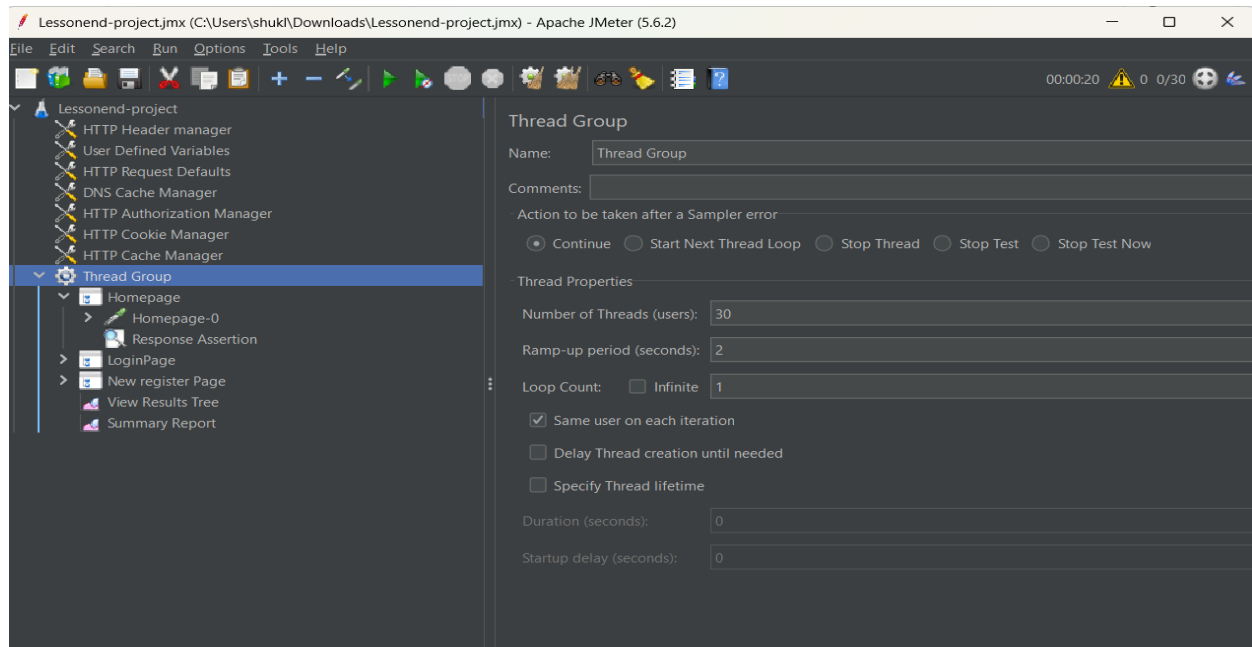


After recording the script we need to save the .jmx file and then open that file in Jmeter as shown below:

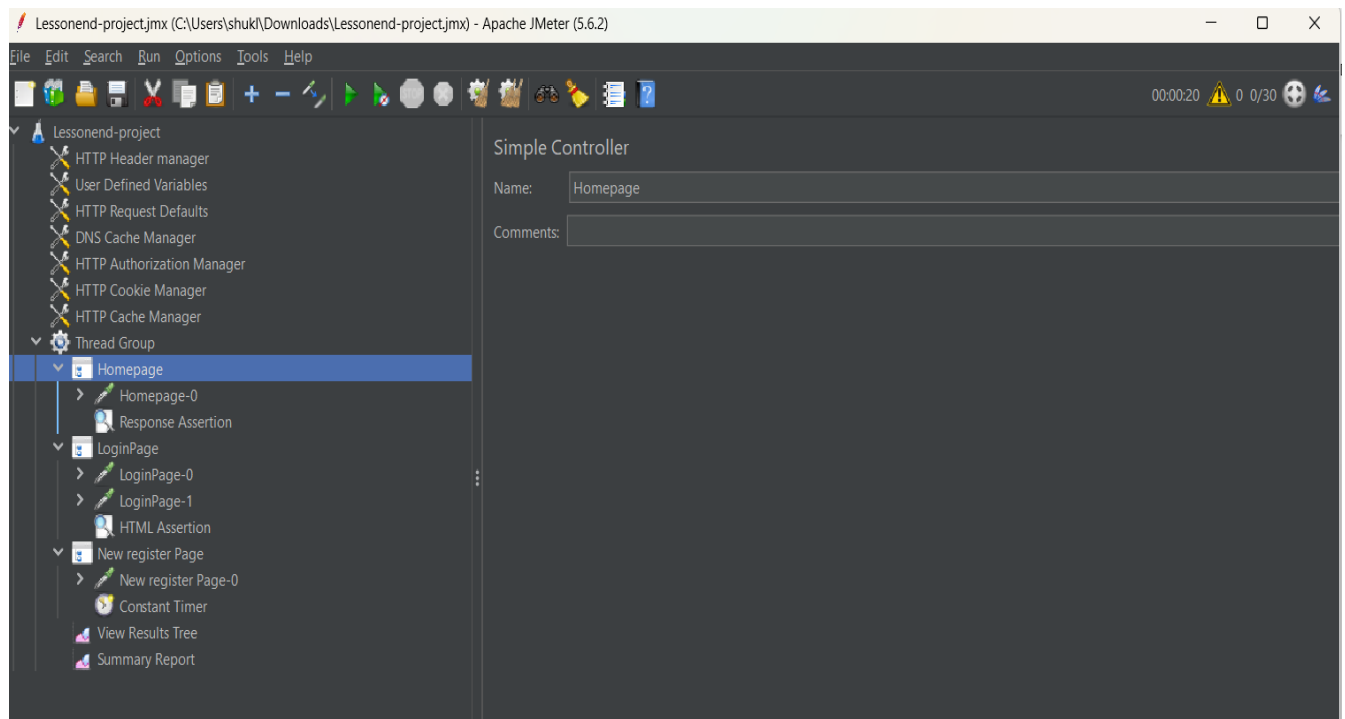


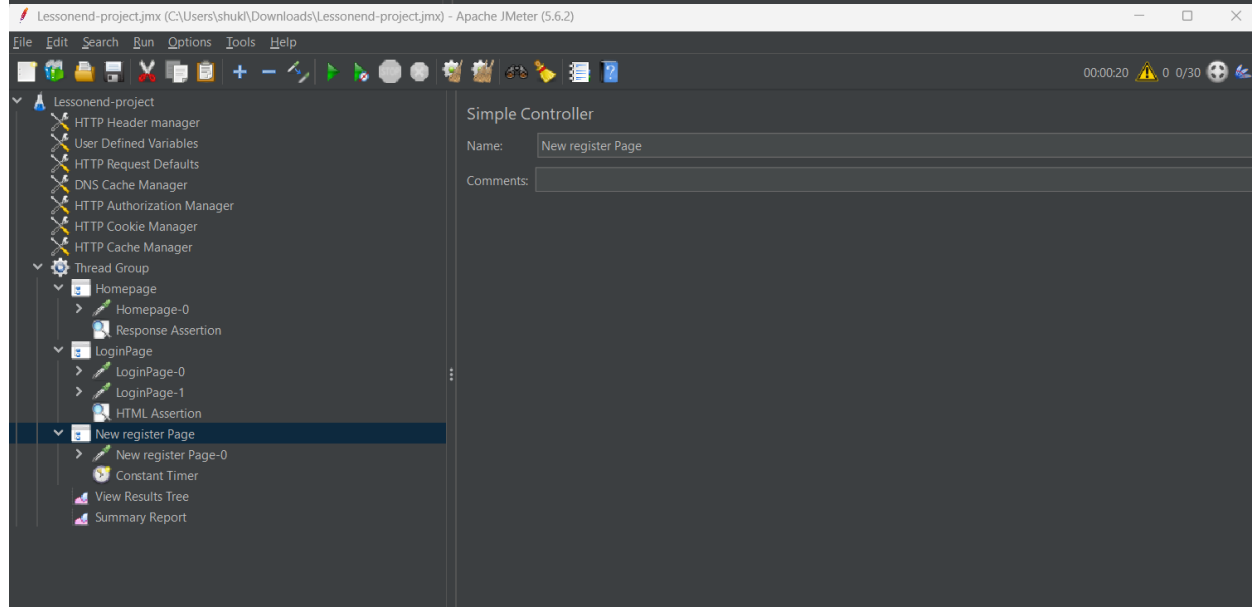
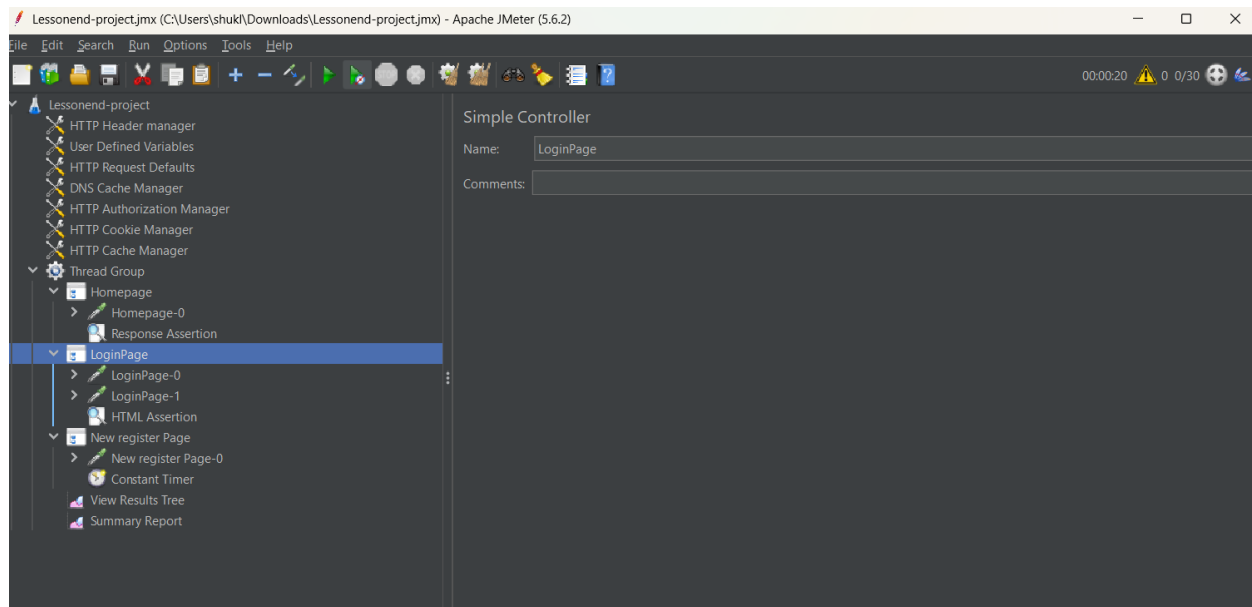
In the first step we have recorded Simplilearn Homepage, Login Page, Signup page.

Then we will get the scripts in Thread Group and there for load testing we will give Number of Threads : 30 and Ramp – up period : 2 sec and loop : 1



There were many request so here we have used some simple controllers and inside which all the recorded scripts are present as shown below:



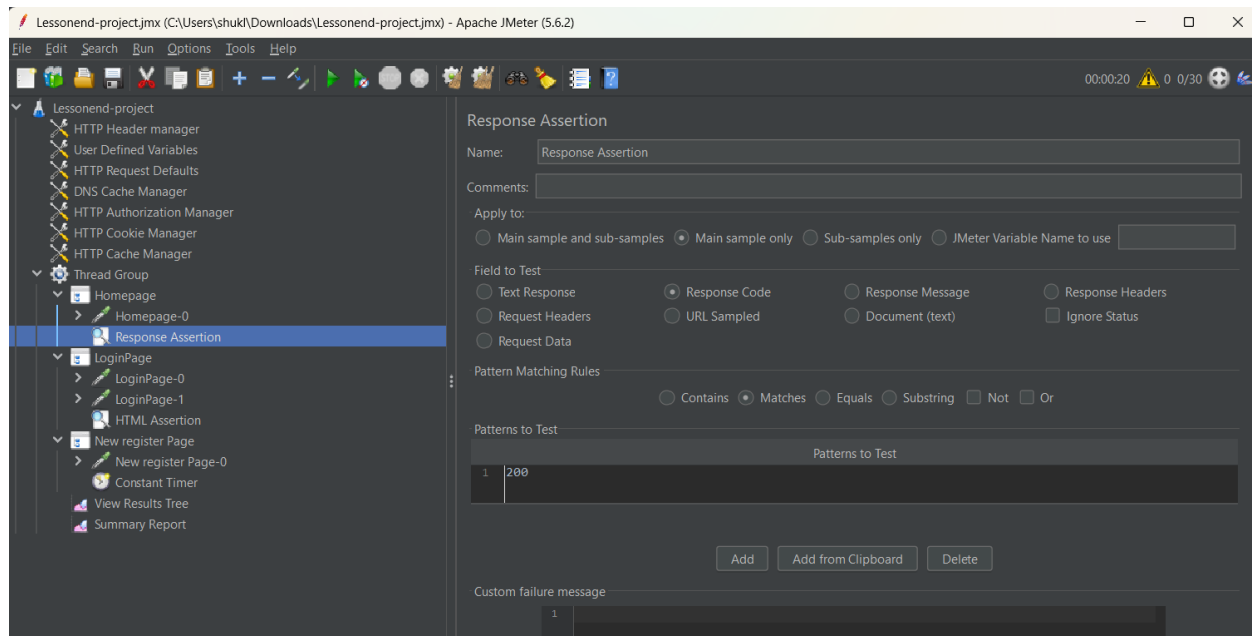


(How to add Assertions) Right click on sampler -> Add -> Assertions -> Response Assertions

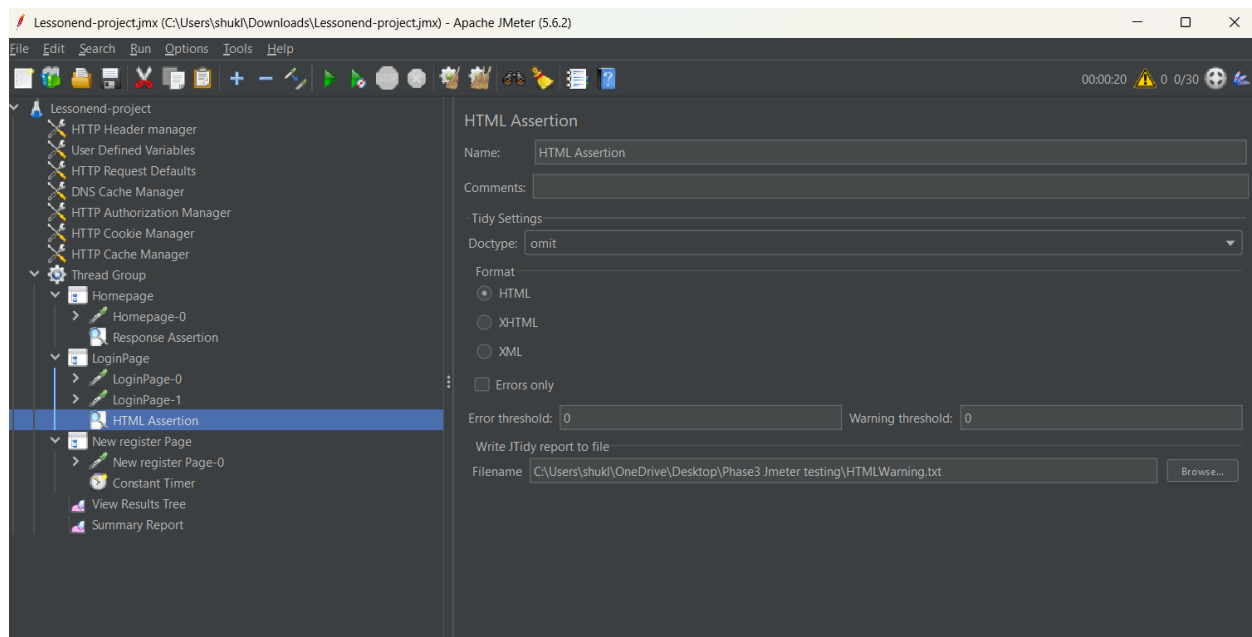
So next, On the sampler we will add Assertion to check if the conditions are satisfied or not.

Using commonly used assertion that is Response Assertions.

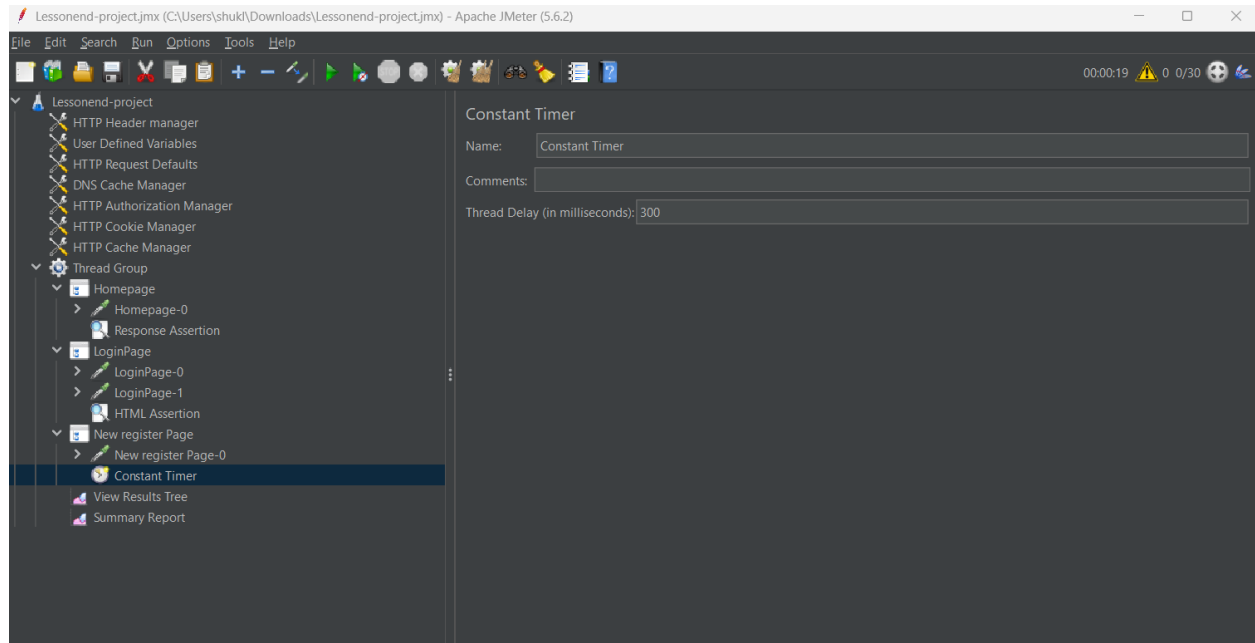
Here response code should match 200.



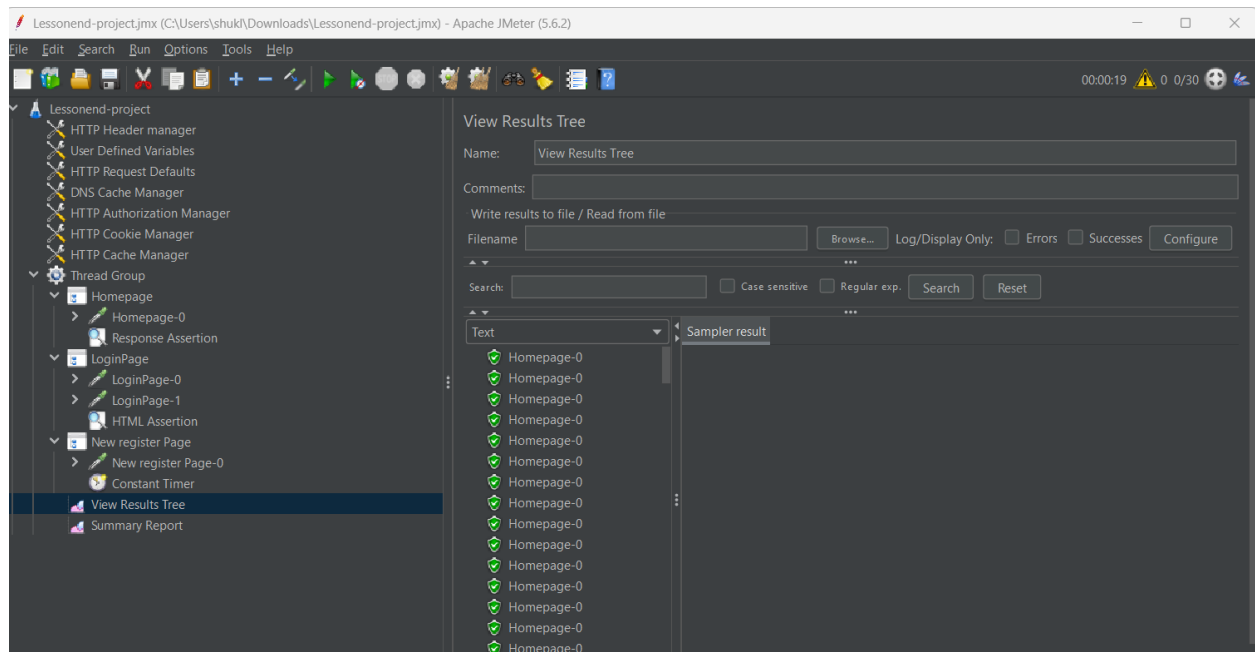
In LoginPage sampler, we have added HTML Assertion to check what are the warnings and number of errors on this LoginPage



Here In the New register Page Sampler we are adding Constant time for wait time of 300 milliseconds.



View Result Tree for viewing the result for the above thread group when executed:
Path to find view Result in Jmeter is : right click on Thread Group -> Add -> listeners -> view result tree



For seeing transaction related results we have add summary Report
Right click on Thread Group -> Add -> listeners -> Summary report

The screenshot shows the Apache JMeter 5.6.2 interface. On the left, the 'Thread Group' is expanded, showing a hierarchy of samplers and assertions. On the right, the 'Summary Report' configuration panel is visible, showing fields for Name, Comments, and a table of results.

Summary Report configuration:

- Name: Summary Report
- Comments:
- Write results to file / Read from file: ☐ Log/Display Only: ☐ Errors ☐ Successes

Summary Report results table:

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/s...	Sent KB/sec	Avg. Bytes
Homepage-0	30	301	0	363	16.74	0.00%	13.4/sec	4138.75	7.76	316725.9
LoginPage-0	30	1406	0	2004	498.32	100.00%	5.9/sec	5.14	3.45	892.0
LoginPage-1	30	2370	0	4583	818.60	100.00%	4.5/sec	292.76	3.06	66003.0
New register P...	30	574	0	654	27.73	0.00%	3.8/sec	232.59	2.87	63116.6
TOTAL	120	1163	0	4583	938.61	50.00%	6.3/sec	686.06	4.09	111684.4

Git Repository link:

<https://github.com/DikshanshSh/Java-fsd/tree/main/Phase%203/Lesson1EndProject>

