

Module – 4

1. Which components have you used in Load Runner ?

- Load Runner used 5 components :-

- Virtual User Generator
- Controller
- Load Generator
- Agent Process
- Analysis

2. How can you set the number of Vusers in Load Runner ?

- To set the number of virtual users (Vusers) in LoadRunner, follow these steps :-

- Open your LoadRunner script :- Navigate to the script you want to edit.
- Access the Controller :- Click on the "Controller" tab within LoadRunner to access the Controller interface.
- Create a scenario :- If you haven't already, create a new scenario by clicking on the "New Scenario" button.
- Add scripts to the scenario :- Drag and drop your script(s) into the scenario window.
- Configure Vuser groups :- Right-click on a script in the scenario and select "Create Vuser Group." This will create a new group for that script.
- Set Vuser count :- Right-click on the Vuser group and select "Properties." In the "General" tab, you'll find the "Initial Vusers" field. Enter the desired number of Vusers for that group.
- Configure other Vuser settings :- You can also adjust other Vuser settings in the "General" tab, such as "Think Time" and "Ramp-Up Time."
- Run the scenario :- Once you've configured the Vuser count and other settings, click on the "Run" button to start the load test.

3. What is Correlation ?

- Correlation is data which is sent to the client from the server, and later sent back to the server by the client.

4. What is the process for developing a Vuser Script ?
 - There are four steps for developing a vuser script :-
 - Record the Vuser Script.
 - Playback and improve the recorded vuser script.
 - Define and test the different run-time parameters.
 - Use the script in a LoadRunner scenario.
5. How Load Runner interacts with the application ?
 - Protocol is used in Load Runner to interact with the application.
6. How many VUsers are required for load testing ?
 - The number of VUsers required depends on your system under test, network configurations, hardware settings, memory, operating system, software applications objective of a performance test. There can not be any generic value for Vuser.
7. What is the relationship between Response Time and Throughput ?
 - The Throughput shows the amount of data in bytes that the Vusers received from the server in a second. When It is compared with transaction response time, throughput and response time get decreased. The peak throughput and highest response time would occur approximately at the same time.
8. What is Automation Testing ?
 - Automation Testing is a software to control the execution of tests, the comparison of actual outcomes to predicted outcomes, the setting up of test preconditions, and other test control and test reporting functions.
9. Which Are The Browsers Supported By Selenium Ide ?
 - Selenium IDE supports the following browsers :-
 - Chrome
 - Firefox
 - Edge
 - Internet Explorer
 - Safari

10. What are the benefits of Automation Testing ?

- Benefits of Automation Testing is :-
 - 70% faster than the manual testing
 - Wider test coverage of application features
 - Reliable in results
 - Ensure Consistency
 - Saves Time and Cost
 - Improves accuracy
 - Human Intervention is not required while execution
 - Increases Efficiency
 - Better speed in executing tests
 - Re-usable test scripts
 - Test Frequently and thoroughly
 - More cycle of execution can be achieved through automation
 - Early time to market

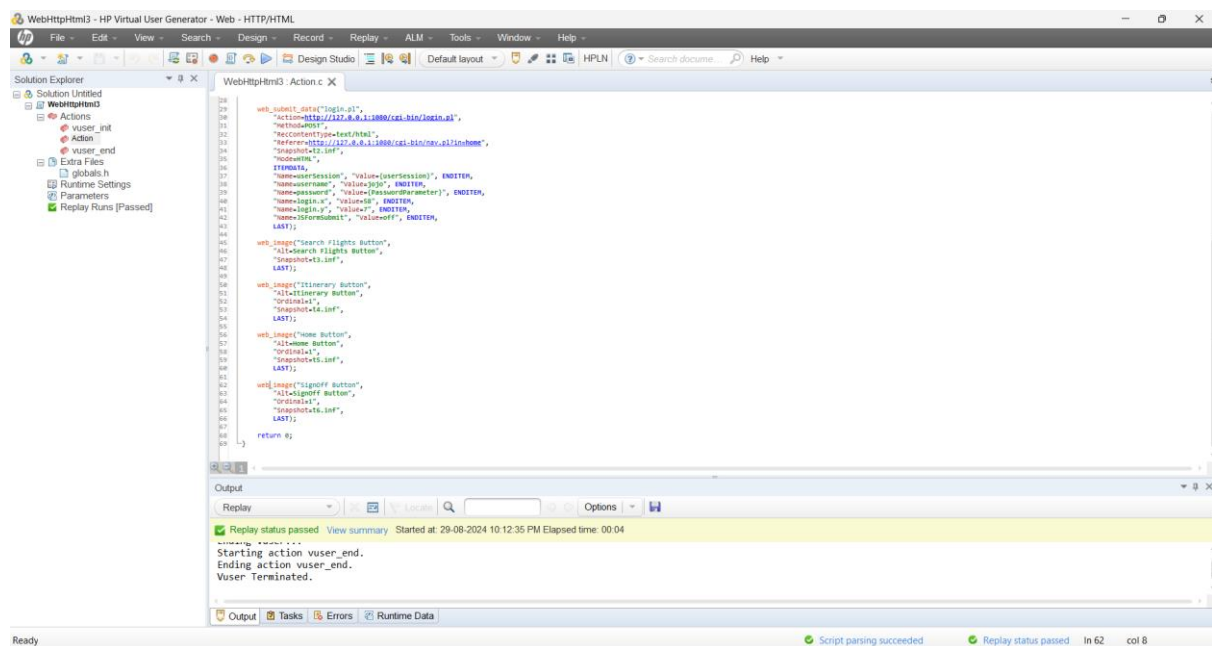
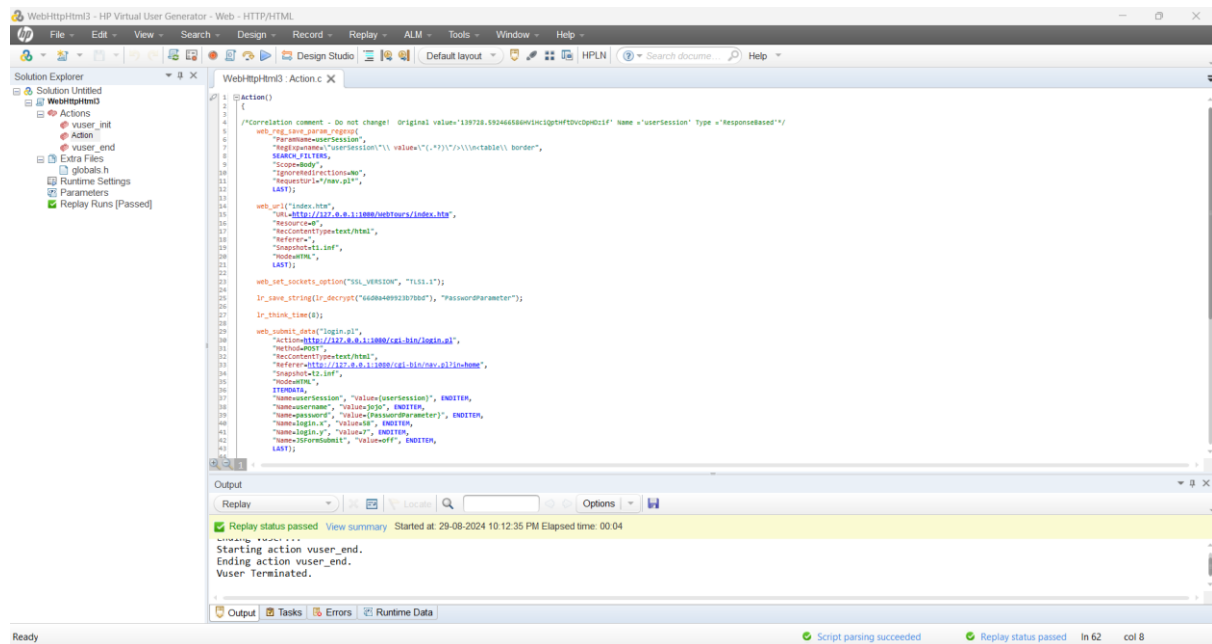
11. What are the advantages of Selenium ?

- Advantages of Selenium is :-
 - Open source, free to use, and free of charge
 - Highly extensible
 - Can run tests across different browsers
 - Supports various operating systems
 - Supports mobile devices
 - Can execute tests while the browser is minimized to be visible on the desktop
 - Can execute tests in parallel

12. Why testers should opt for Selenium and not QTP ?

- Testers should opt for Selenium because :-
 - Selenium is OS independent and allows test scripts to run across all browsers.
 - Selenium supports a wide range of programming languages
 - The speed of automation when using Selenium.
 - Selenium is opensource and free
 - Selenium write test script for one browser that will work against all desktop and mobile browsers with little to no modification

13. create a normal script of above website with correlate using hp default website ?



WebHttpHtml3 - HP Virtual User Generator - Web - HTTP/HTML

File Edit View Search Design Record Replay ALM Tools Window Help

Solution Explorer

- Solution Untitled
 - WebHttpHtml3
 - Actions
 - vuser_init
 - Action
 - vuser_end
 - Extra Files
 - globals.h
 - Runtime Settings
 - Parameters
 - Replay Runs (Passed)

WebHttpHtml3: Replay Summary X WebHttpHtml3: Runtime Settings WebHttpHtml3: vuser_end.c WebHttpHtml3: vuser_init.c WebHttpHtml3: Action.c

Script Name: WebHttpHtml3

Script Passed

Elapsed time: 00:04.676 mm:ss.ms Started at: 29-08-2024 10:12:35 PM Think time: 00:00.000 mm:ss.ms
Ended at: 29-08-2024 10:12:39 PM Wasted time: 00:00.000 mm:ss.ms

Open NV Analytics report

More information is available in [Test Results](#)

For additional details, enable the collection of replay statistics.

Choose:

Tools > Options > Scripting > Replay (select "Collect replay statistics")

These statistics include transaction breakdown information, connections, and various HTTP-related items.

Note: Enabling this option may affect the replay performance.

Open the Run Time Settings to modify Vuser behavior during replay

Open the ContentCheck Rules to check websites for content during replay

Output

Replay

Replay status passed View summary Started at: 29-08-2024 10:12:35 PM Elapsed time: 00:04

Starting action vuser_end.
Ending action vuser_end.
Vuser Terminated.

Output Tasks Errors Runtime Data

Ready

Script parsing succeeded Replay status passed In 62 col 8

HP LoadRunner Controller - 28_aug.1ns - [Design(1)]

File View Scenario Results Diagnostics Tools Help

Scenario Groups

Group Name	Script Path	Virtual Location	Quantity	Load Generators
webHttpHtml3	C:\Users\bnju\OneDrive\Documents\VuGen\Scripts\WebHttpHtml3	None	10	localhost

Service Level Agreement

New Details Edit Delete Advanced

Service Level Agreement

Currently no SLA rules are defined for the load test.

Click the New button to define SLA criteria for your load test.

Scenario Schedule

Schedule Name: Schedule 1

Schedule by: Scenario Group

Run Mode: Real-world schedule Basic schedule

Global Schedule

Total: 10 Vusers

Action	Properties
Initialize	Initialize 5 Vusers every 00:00:10 (HH:MM:SS)
Start Vusers	Start 10 Vusers: 5 every 00:00:10 (HH:MM:SS)
Duration	Run for 00:02:00 (HH:MM:SS)
Stop Vusers	Stop all Vusers: 5 every 00:00:10 (HH:MM:SS)

Vusers(10)

Status	Script	Virtual Location	Generated Time
Down	WebHttpHtml3	localhost	
Down	WebHttpHtml3	localhost	
Down	WebHttpHtml3	localhost	
Down	WebHttpHtml3	localhost	
Down	WebHttpHtml3	localhost	
Down	WebHttpHtml3	localhost	
Down	WebHttpHtml3	localhost	
Down	WebHttpHtml3	localhost	
Down	WebHttpHtml3	localhost	
Down	WebHttpHtml3	localhost	

Graph

Legend

Global Schedule

Time

00:00:00 00:01:00 00:02:00 00:03:00

Design Run Diagnostics for JEE/.NET

Auto Collate Results Network Virtualization

