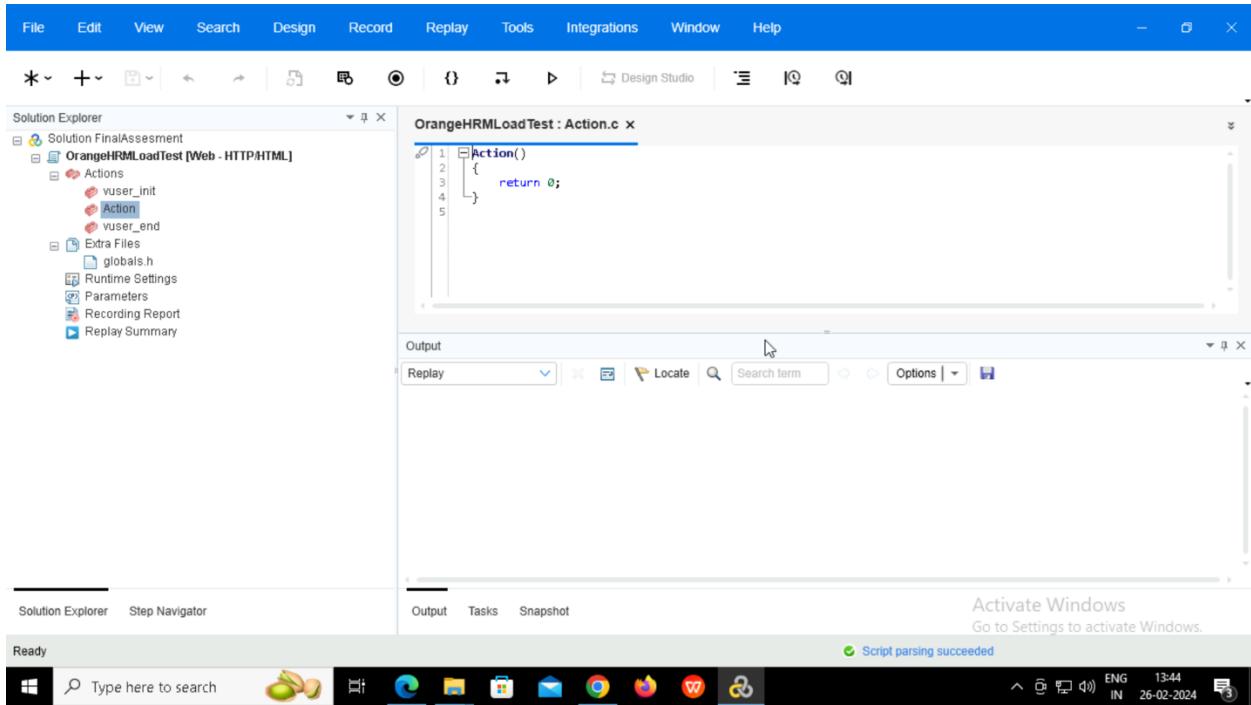
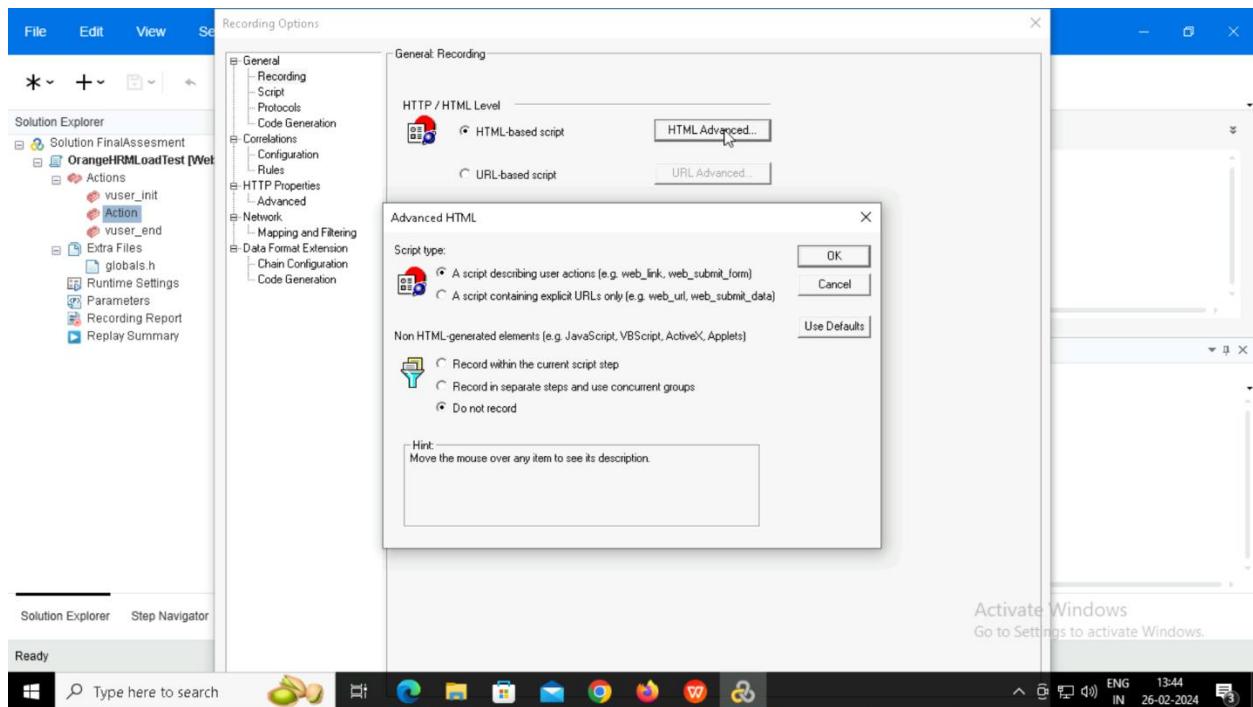
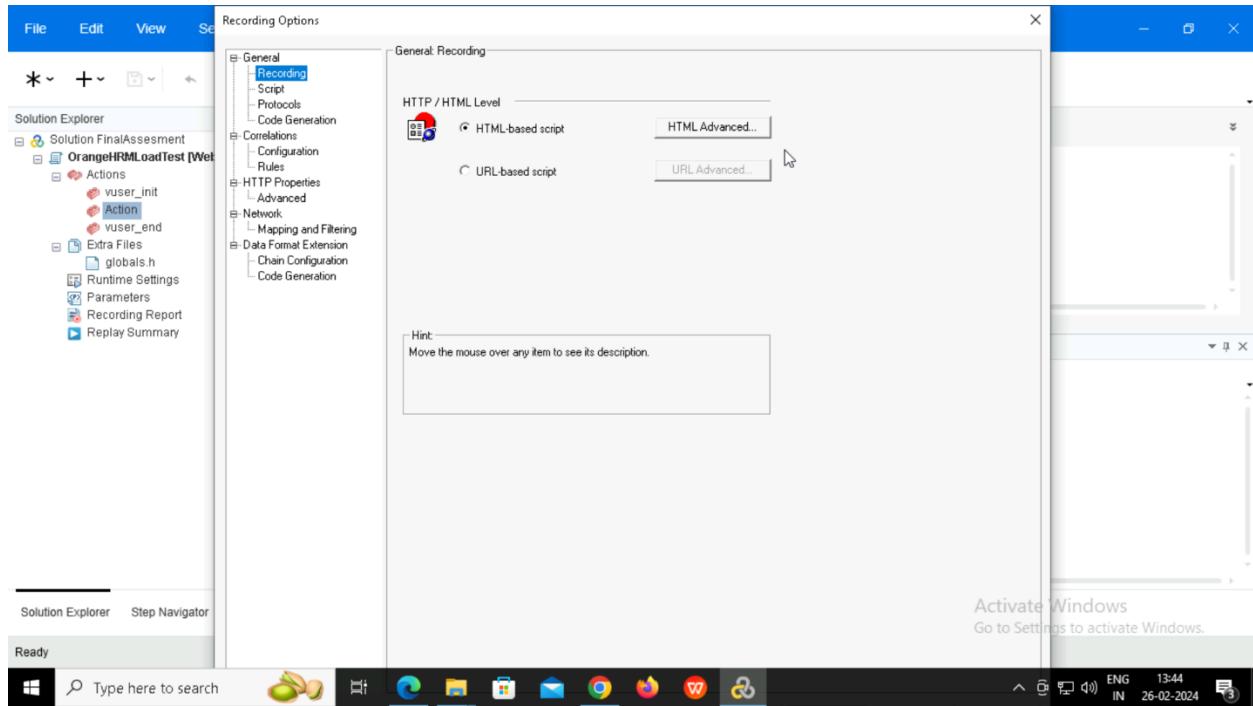


Load Runner Final Assessment

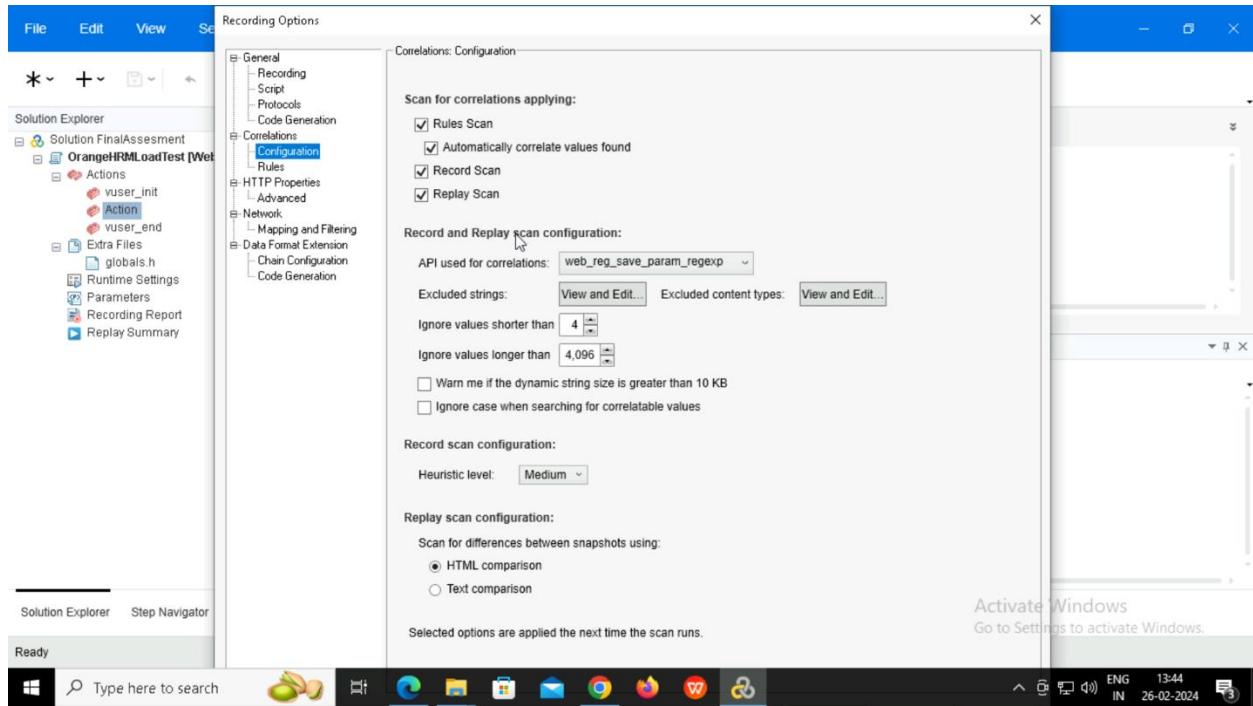
Created the solution with the name FinalAssesment and added a script OrangeHRMLoadTest



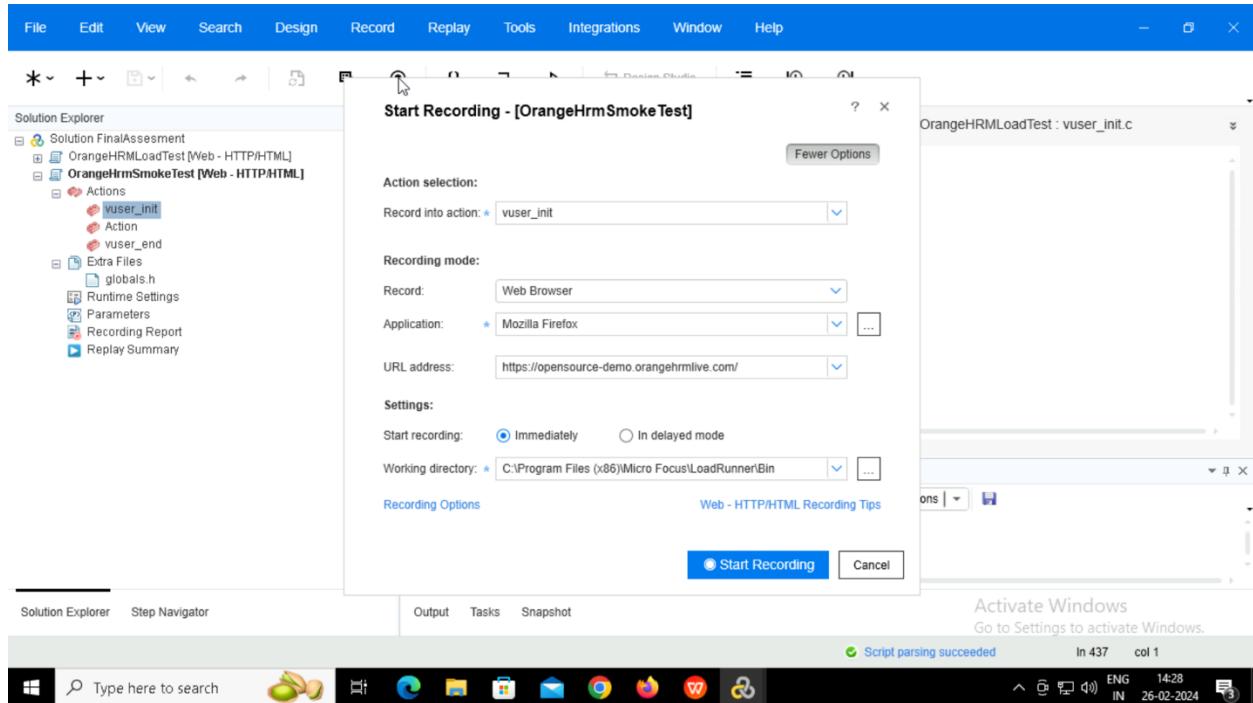
Recording options are



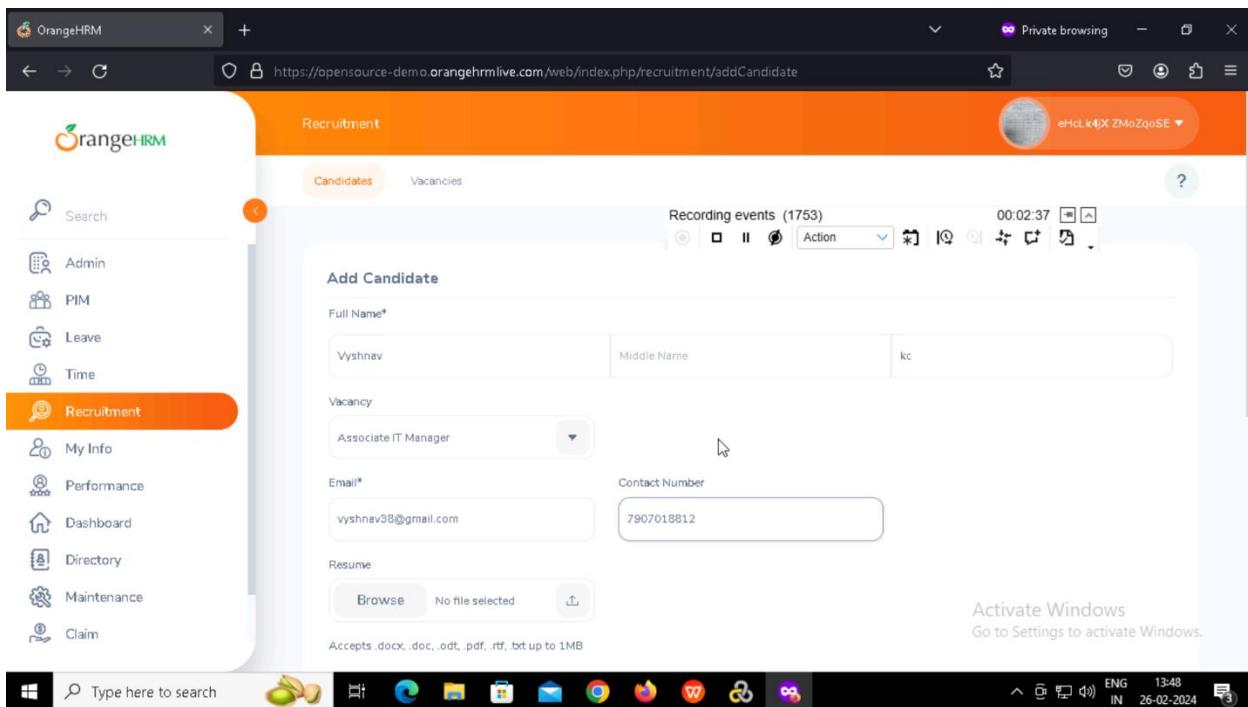
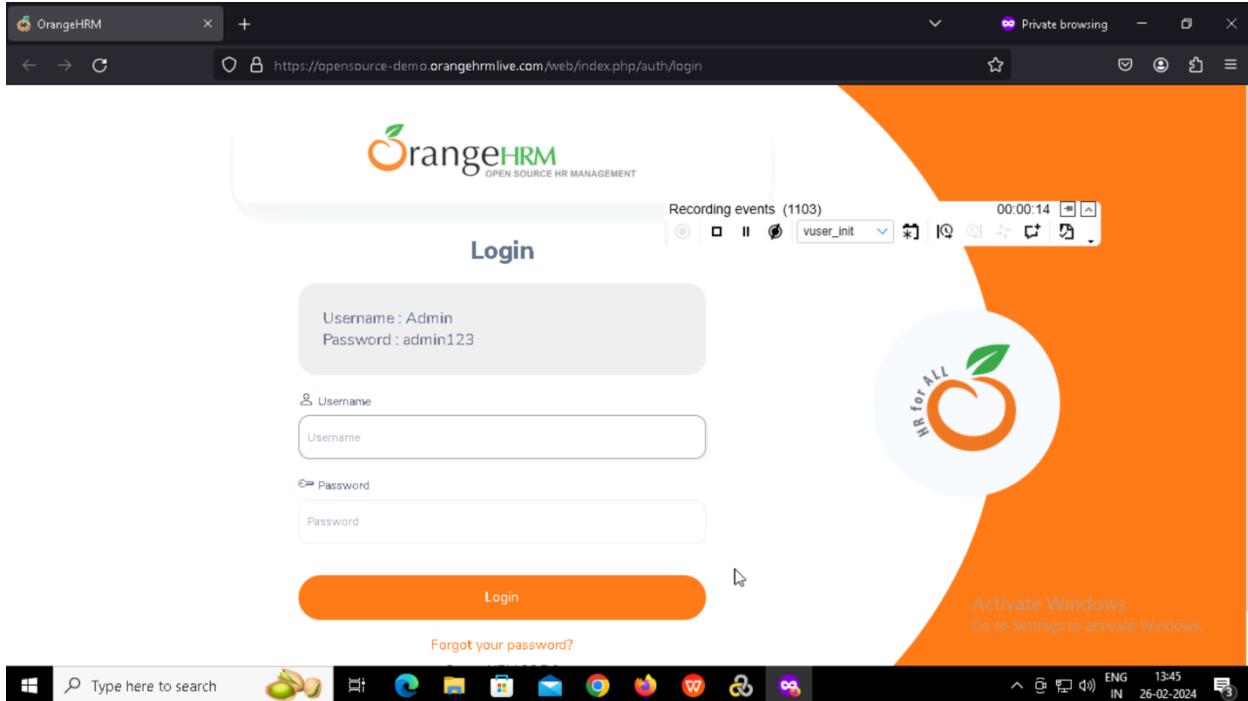
Correlation configurations in recording options



Start Recording the page with vuser_init



Login with the username and password and added comments for it and also added textcheck and image check



Recording was successful and search for the correlation correlation was found with token and correlate it

Design Studio

Correlation(7) Async

Review the dynamic values found and select those that need to be correlated.

Click Replay & Scan until no more dynamic values are found.

1 item(s) are un-correlated

Type	Replace/Found	Status	Text in Response	Correlation Parameter
Record	1/1	New	20e3.wy8EPMFkP6bODhzlyIDQA-by0Fwl2CgAUuHCM15i	token
Record	10/10	New	Employee	sortField
Record	1/1	New	7c67e1cb2fe65c627e8aa99c4be8308c	orangehrm
Replay	1/1	New	h4CtqfZS	CorrelationParameter
Replay	1/1	New	vysnav	CorrelationParameter
				7 results

Details Options

Close

Activate Windows
Go to Settings to activate Windows.

Output Tasks Snapshot

Replay status passed Script parsing succeeded In 95 col 1

Type here to search

Design Studio

Correlation(7) Async

Review the dynamic values found and select those that need to be correlated.

Click Replay & Scan until no more dynamic values are found.

1 item(s) are correlated

Type	Replace/Found	Status	Text in Response	Correlation Parameter
Record	1/1	Applied	20e3.wy8EPMFkP6bODhzlyIDQA-by0Fwl2CgAUuHCM15i	token
Record	10/10	New	Employee	sortField
Record	1/1	New	7c67e1cb2fe65c627e8aa99c4be8308c	orangehrm
Replay	1/1	New	h4CtqfZS	CorrelationParameter
Replay	1/1	New	vysnav	CorrelationParameter
				7 results

Details Options

Close

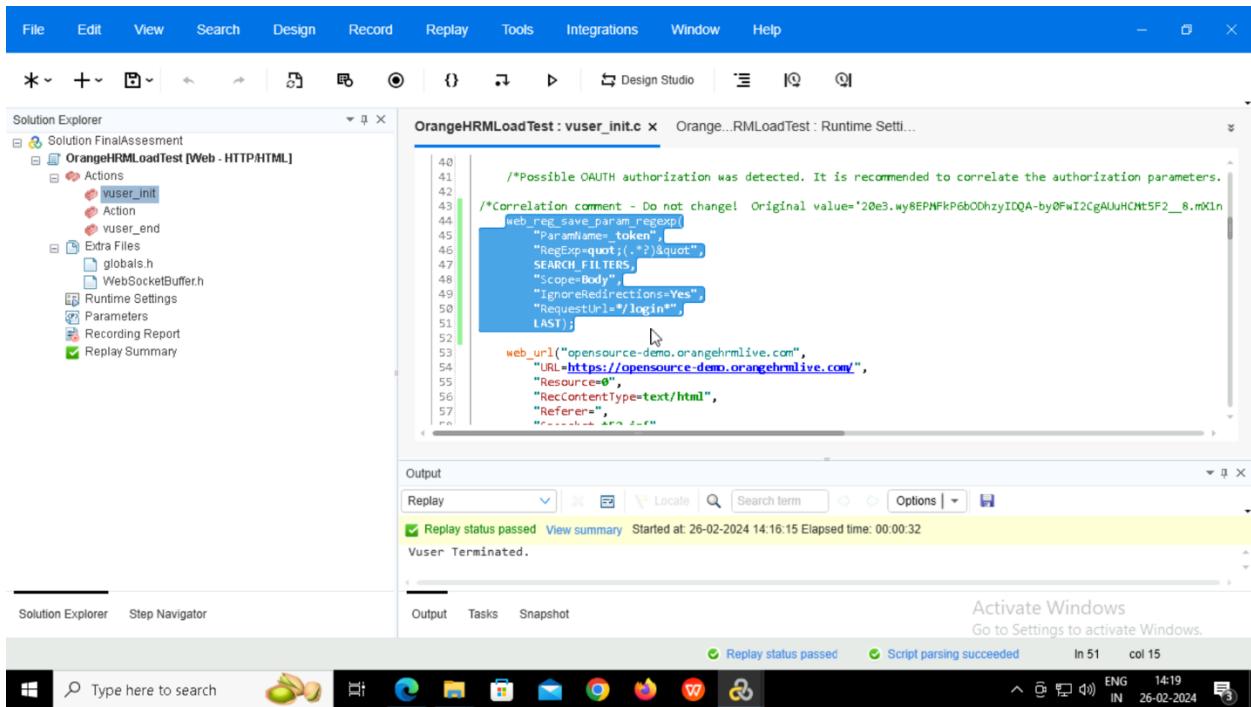
Activate Windows
Go to Settings to activate Windows.

Output Tasks Snapshot

Replay status passed Script parsing succeeded In 105 col 1

Type here to search

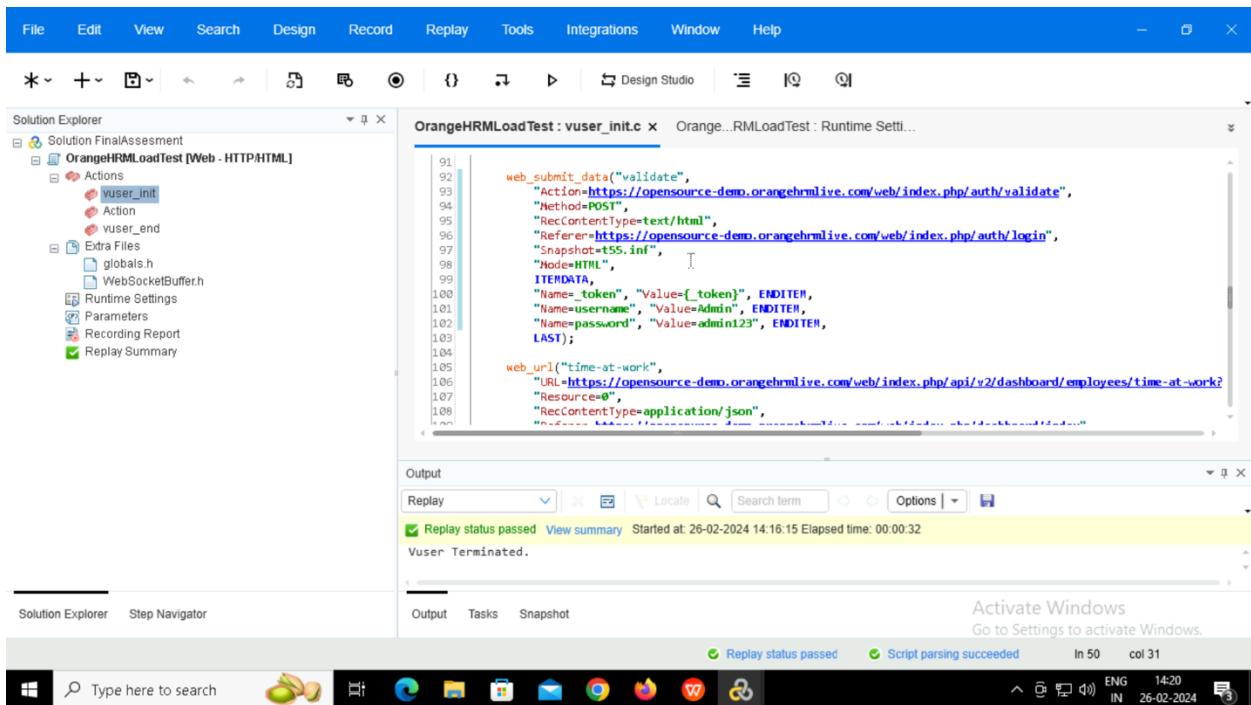
Correlation is added here in the code



The screenshot shows the OrangeHRM Load Test tool interface. The main window displays the script file `vuser_init.c`. In line 44, there is a comment: /*Possible OAUTH authorization was detected. It is recommended to correlate the authorization parameters.*/ followed by a call to `web_reg_save_param_regex()`. This function is used to save a parameter named `_token` from a regular expression. The regular expression pattern is `"ParamNames=_token", "RegEx="(.?)"""`. The `SEARCH FILTERS` section includes `"Scope=Body"`, `"IgnoreRedirections=Yes"`, `"RequestUrl=*login*`, and `LAST`. Below this, the `web_url()` function is used to perform a POST request to `"https://opensource-demo.orangehrmlive.com"` with various parameters like `Resource=0`, `ReContenttype=text/html`, and `Referer=`.

At the bottom of the interface, the status bar shows: `Replay status passed Script parsing succeeded In 51 col 15` and `14:19 IN 26-02-2024`.

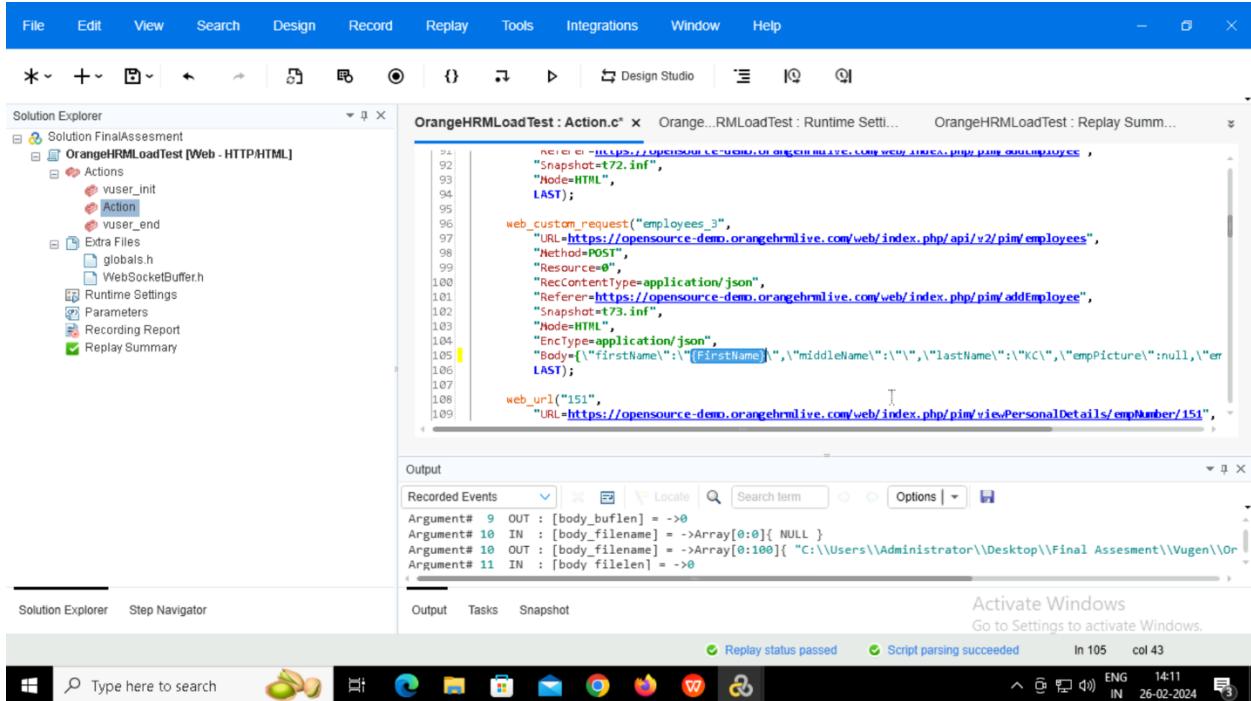
Then Use this parameter Name `_token` in the request



The screenshot shows the OrangeHRM Load Test tool interface. The main window displays the script file `vuser_init.c`. In lines 91-108, there is a `web_submit_data()` block. The action is set to `"Action=https://opensource-demo.orangehrmlive.com/web/index.php/auth(validate)"` with `Method=POST`. The `ReContenttype` is set to `text/html`. The URL for the next step is `"https://opensource-demo.orangehrmlive.com/web/index.php/auth/login"`. The `Snapshot=t55.inf` and `Node=HTML` options are present. The `ITEMDATA` section contains three entries: `Name=_token, Value={_token}, ENDITEM`, `Name=username, Value=admin, ENDITEM`, and `Name=password, Value=admin123, ENDITEM`. The `LAST` keyword is at the end of the block.

At the bottom of the interface, the status bar shows: `Replay status passed Script parsing succeeded In 50 col 31` and `14:20 IN 26-02-2024`.

Added Parameterization for Add Employee Here first name last name and employee id is parameterized



First Name is added to AddEmployee.dat table and its accessed By Name using FirstName

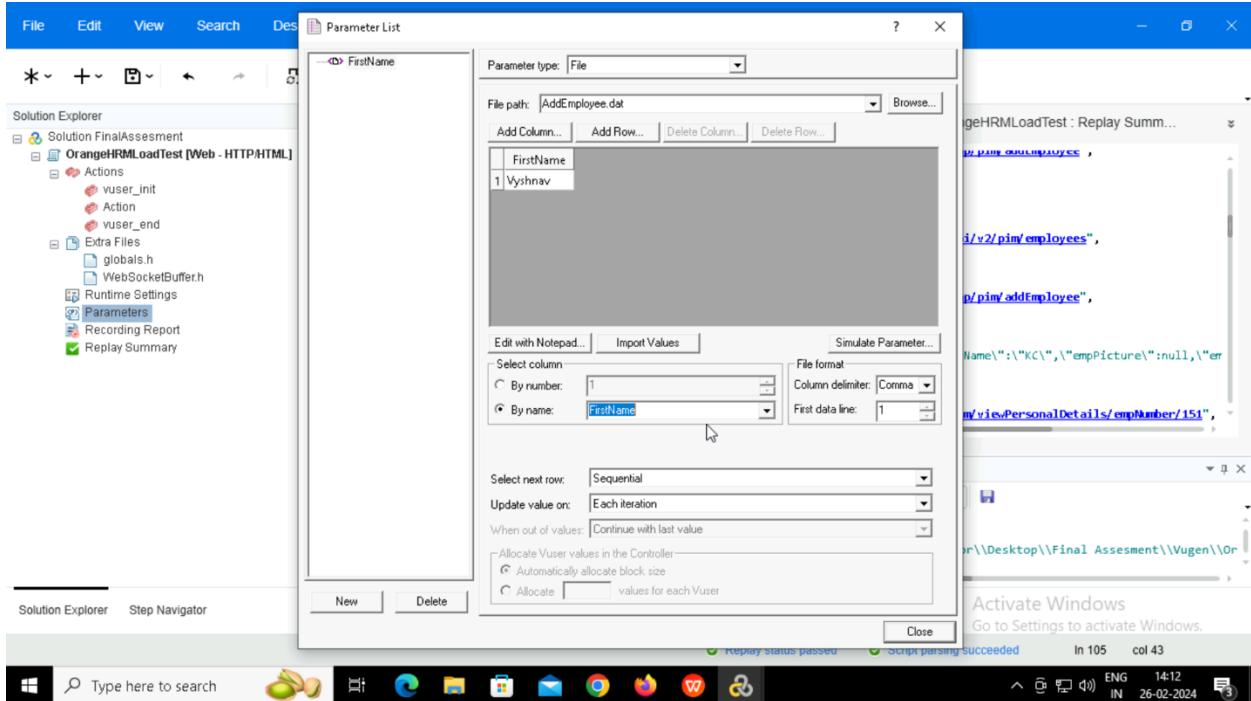
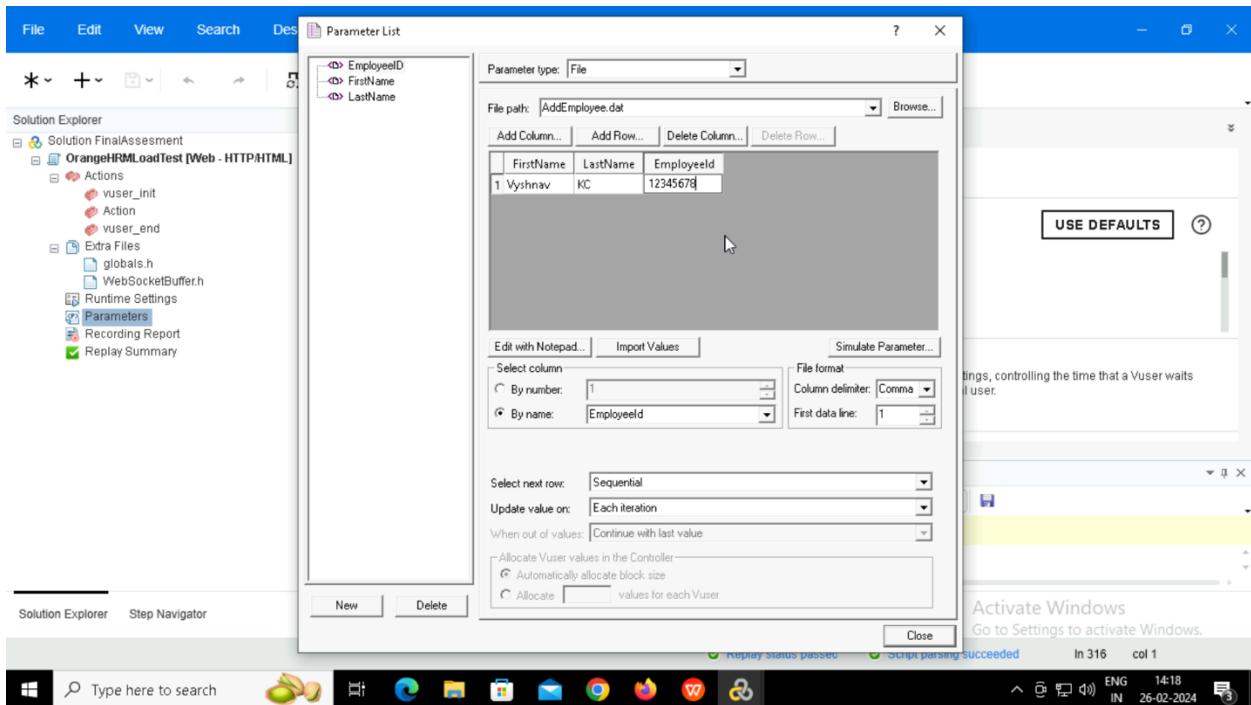
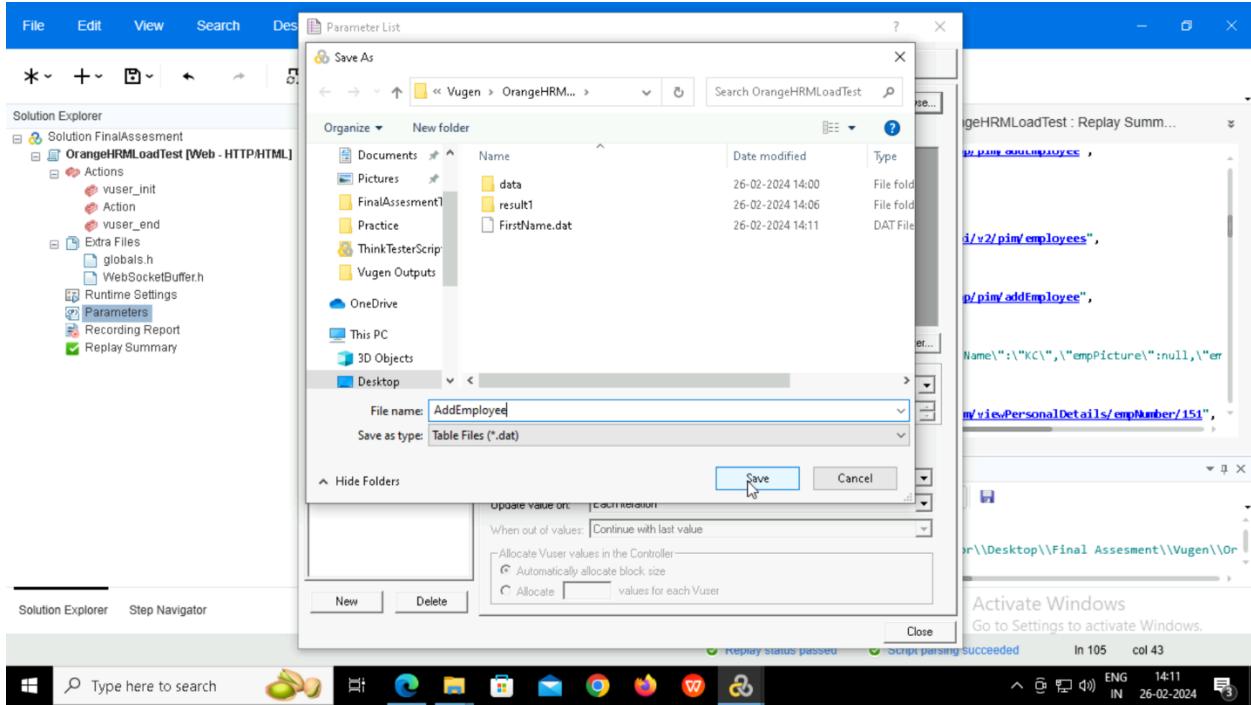
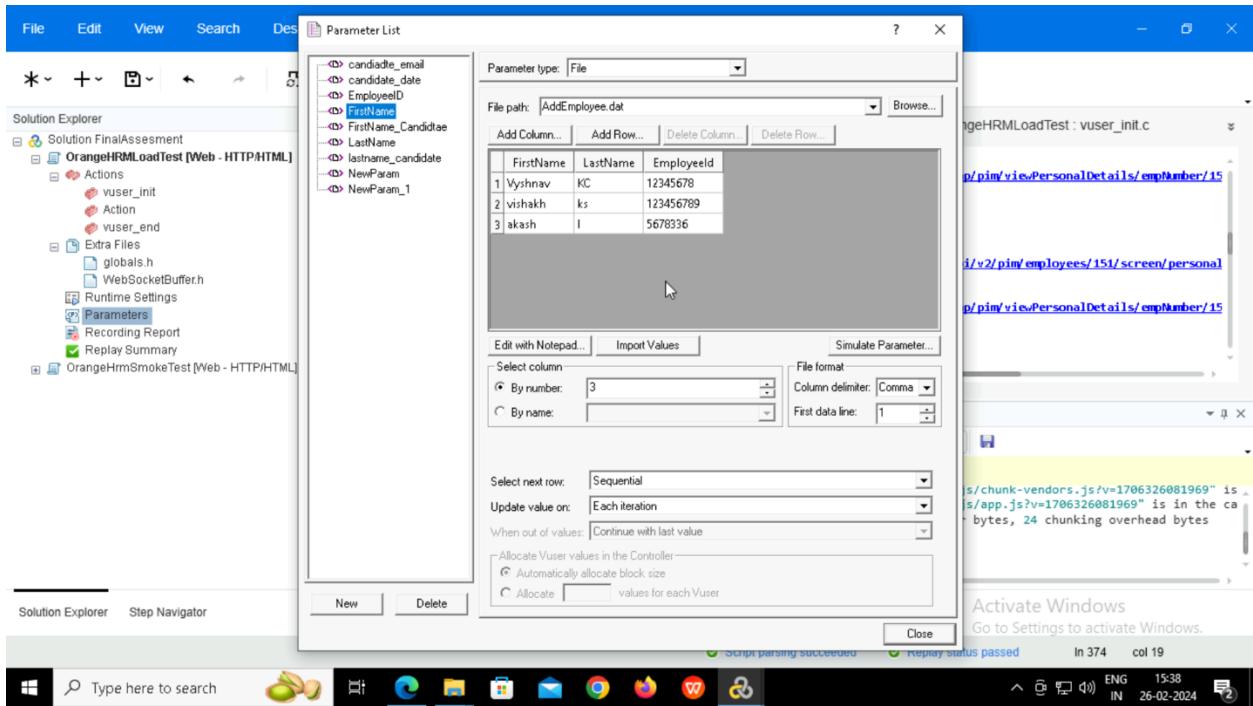


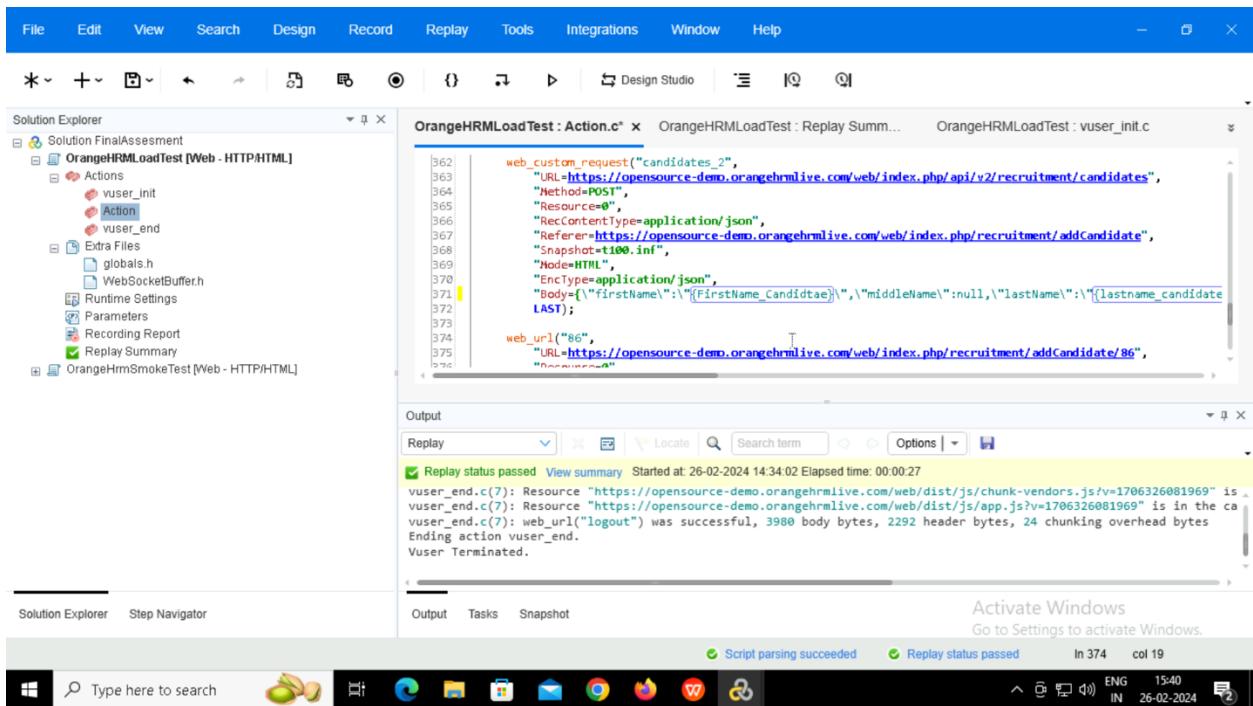
Table is saved with AddEmployee.dat Name



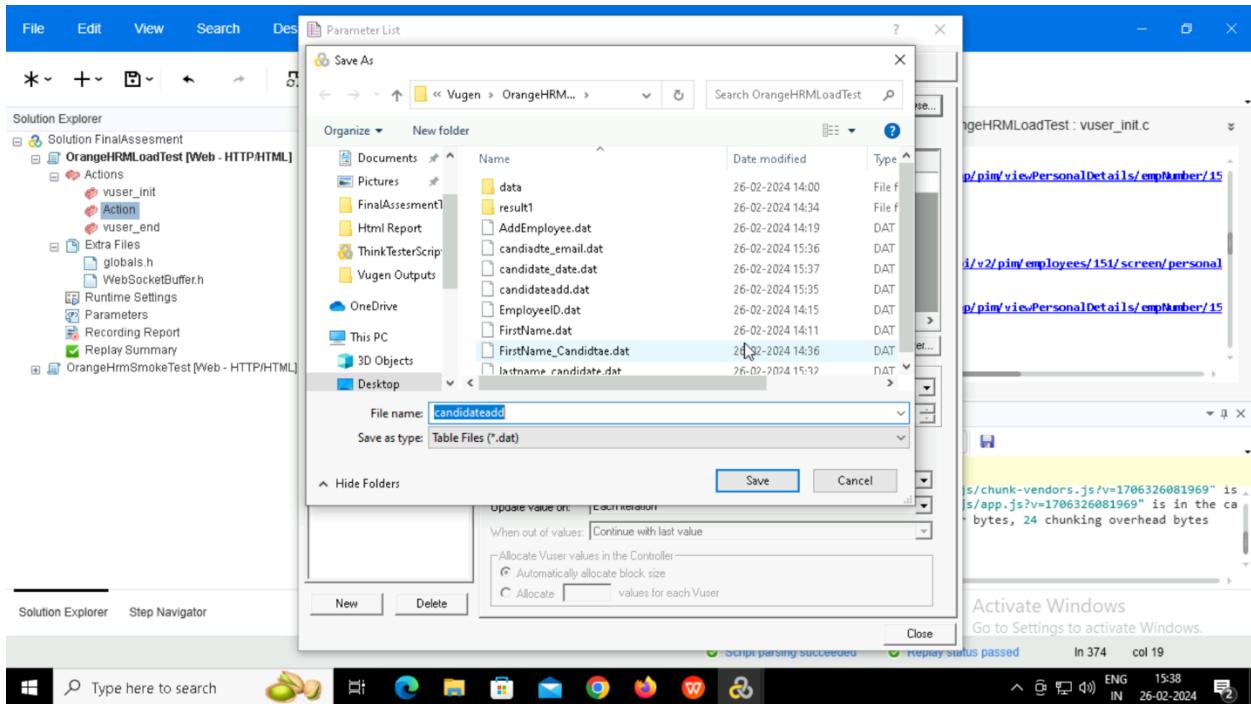
Added multiple rows



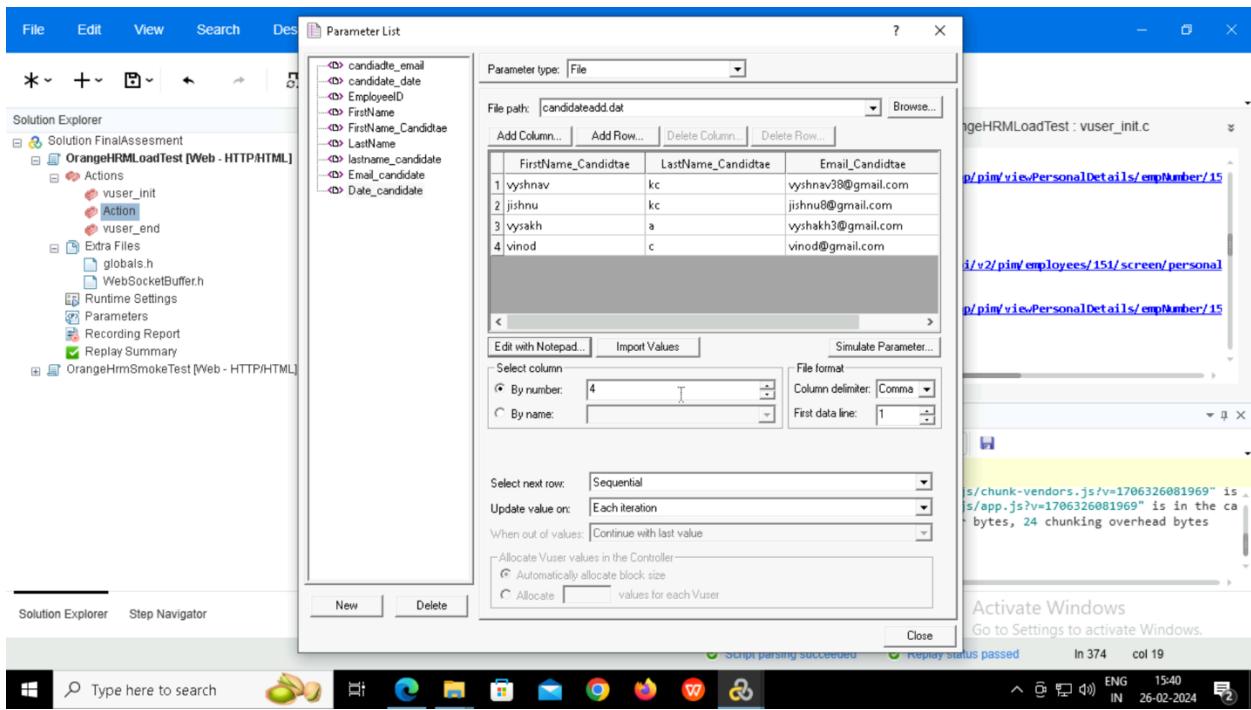
Also added another parameterization



Save the table as candidateadd.dat



Added multiple row in the table



Added Image Check using src

Solution Explorer

```

1  /* Go to PIN */
2
3  web_add_auto_header("Accept-Language",
4      "en-US,en;q=0.5");
5
6  web_image_check("web_image_check",
7      "src=/web/images/orangehrm-logo.png?v=1706326081969",
8      LAST);
9
10 web_url("viewPinModule",
11     "URL=https://opensource-demo.orangehrmlive.com/web/index.php/pim/viewPinModule",
12     "Resource=0",
13     "ReContentType=text/html",
14     "Referer=https://opensource-demo.orangehrmlive.com/web/index.php/dashboard/index",
15     "Snapshot=t64.inf",
16     LAST);
17
18

```

Output

Replay status passed View summary Started at: 26-02-2024 14:16:15 Elapsed time: 00:00:32

Vuser Terminated.

Solution Explorer Step Navigator

Output Tasks Snapshot

Activate Windows
Go to Settings to activate Windows.

Replay status passed Script parsing succeeded In 11 col 15

Type here to search

Added text check

Solution Explorer

```

46  "ParamName=_token",
47  "RegExp=quot;(.*)quot",
48  "SEARCH_FILTERS",
49  "ScopesBody",
50  "IgnoreRedirections=Yes",
51  "RequestUrl=*/login*",
52  LAST);
53
54  web_reg_find("Text=Login",
55  LAST);
56
57  web_url("https://opensource-demo.orangehrmlive.com",
58  "URL=https://opensource-demo.orangehrmlive.com",
59  "Resource=0",
60  "Snapshot=t64.inf");

```

Output

Replay status passed View summary Started at: 26-02-2024 14:34:02 Elapsed time: 00:00:27

vuser_end.c(7): Resource "https://opensource-demo.orangehrmlive.com/web/dist/js/chunk-vendors.js?v=1706326081969" is in the cache
vuser_end.c(7): Resource "https://opensource-demo.orangehrmlive.com/web/dist/js/app.js?v=1706326081969" is in the cache
vuser_end.c(7): web_url("logout") was successful, 3988 body bytes, 2292 header bytes, 24 chunking overhead bytes
Ending action vuser_end.
Vuser Terminated.

Solution Explorer Step Navigator

Output Tasks Snapshot

Activate Windows
Go to Settings to activate Windows.

Script parsing succeeded Replay status passed In 55 col 15

Type here to search

Run time settings are

The screenshot shows the LoadRunner interface with the 'Run Logic' configuration open. The 'Run Logic' tab is selected, showing the 'Number of iterations' set to 1. Below it, the 'initialize' step is listed with the script 'vuser_init'. A hint indicates that the number of iterations can range from 1 to 2147483647. The 'Output' pane at the bottom shows 'Replay status passed' and 'Script parsing succeeded'.

GENERAL

Run Logic

Number of iterations 1

+ Insert ▾ Delete ↑ Move Up ↓ Move Down

initialize vuser_init

BROWSER

Browser Emulation

NETWORK

Output

Replay status passed Script parsing succeeded In 105 col 1

Activate Windows Go to Settings to activate Windows.

The screenshot shows the LoadRunner interface with the 'Pacing' configuration open. The 'Pacing' tab is selected, showing three options: 'as soon as the previous iteration ends' (selected), 'after the previous iteration ends, with Fixed delay of 60', and 'at Fixed intervals, every 60 second(s)'. A hint explains that a fixed or random delay is set between iterations. The 'Output' pane at the bottom shows 'Replay status passed' and 'Script parsing succeeded'.

GENERAL

Pacing

Start new iteration:

as soon as the previous iteration ends

after the previous iteration ends, with Fixed delay of 60

at Fixed intervals, every 60 second(s)

BROWSER

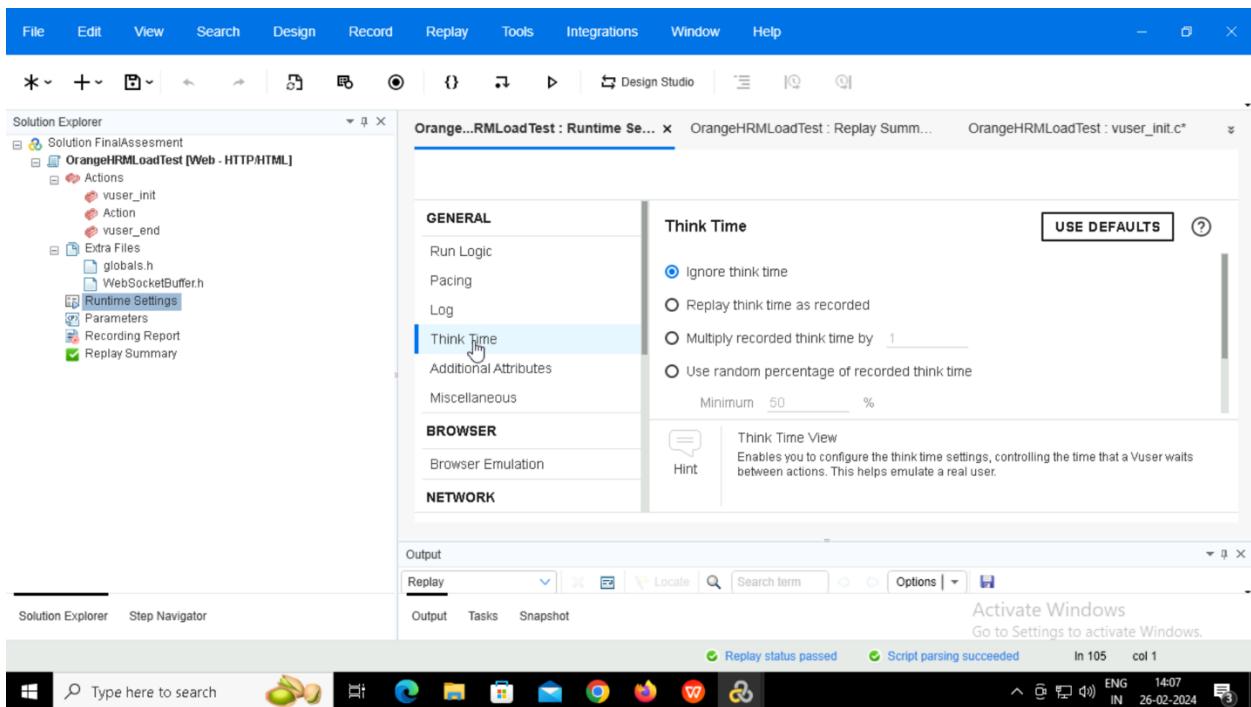
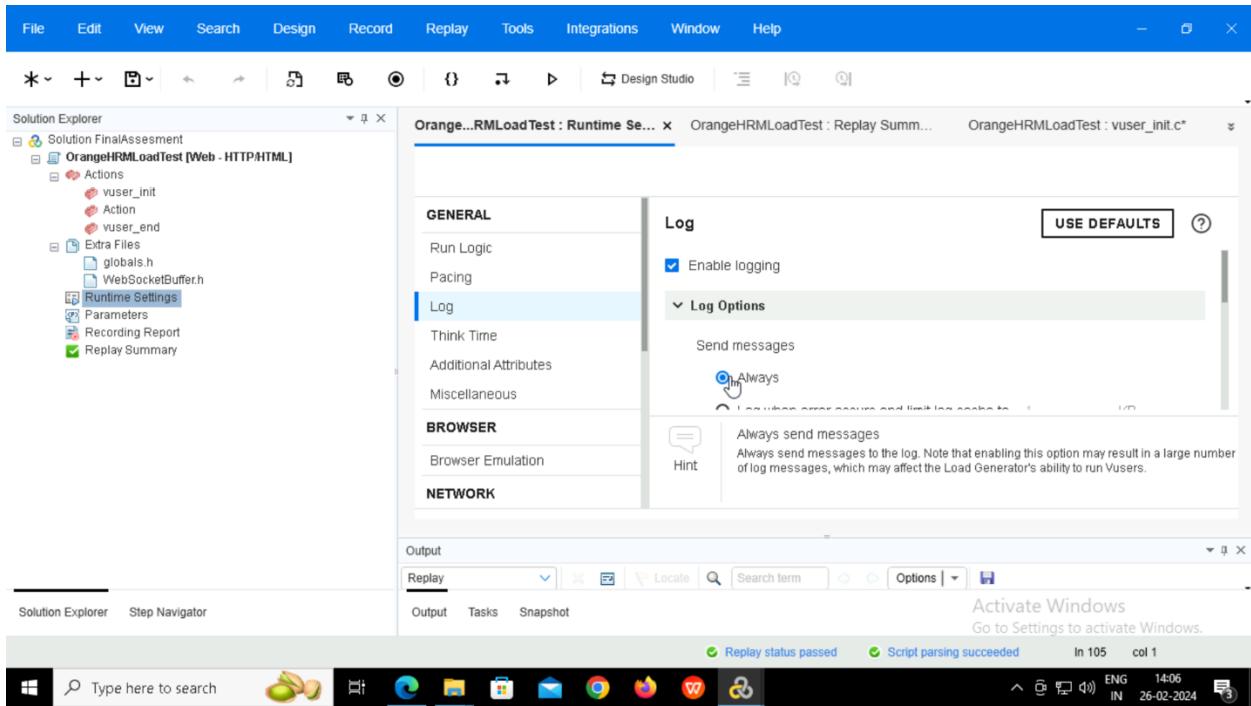
Browser Emulation

NETWORK

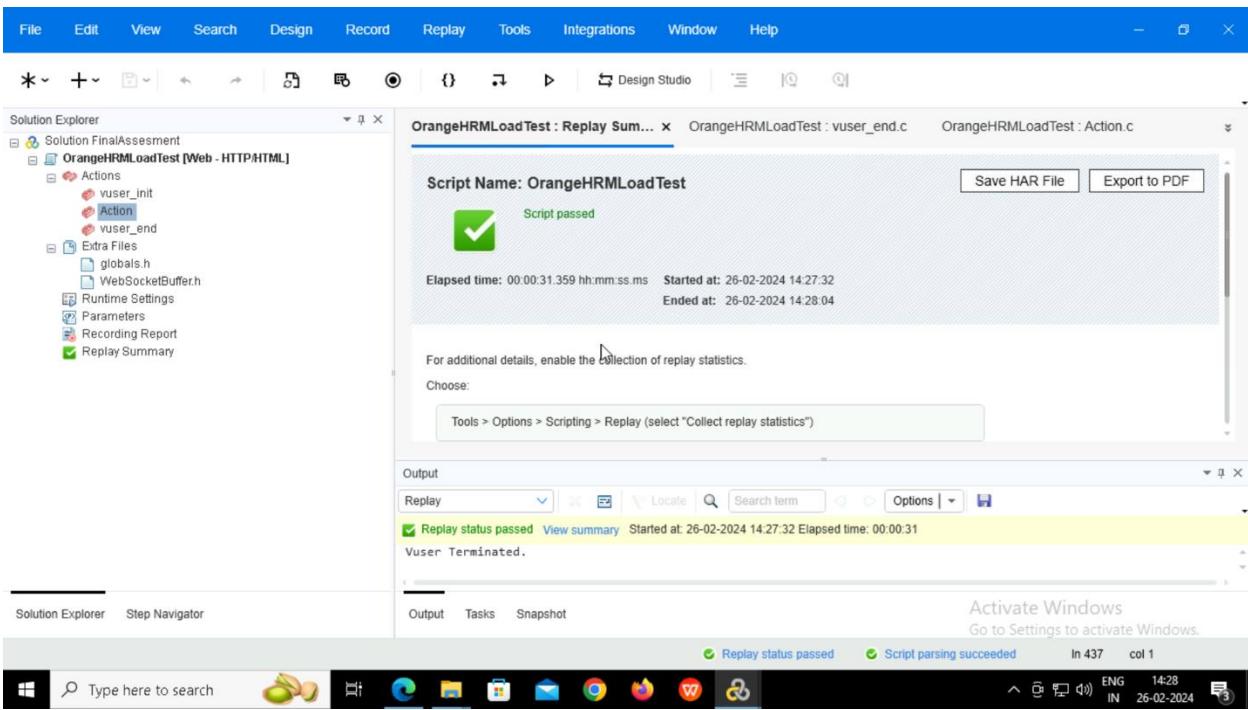
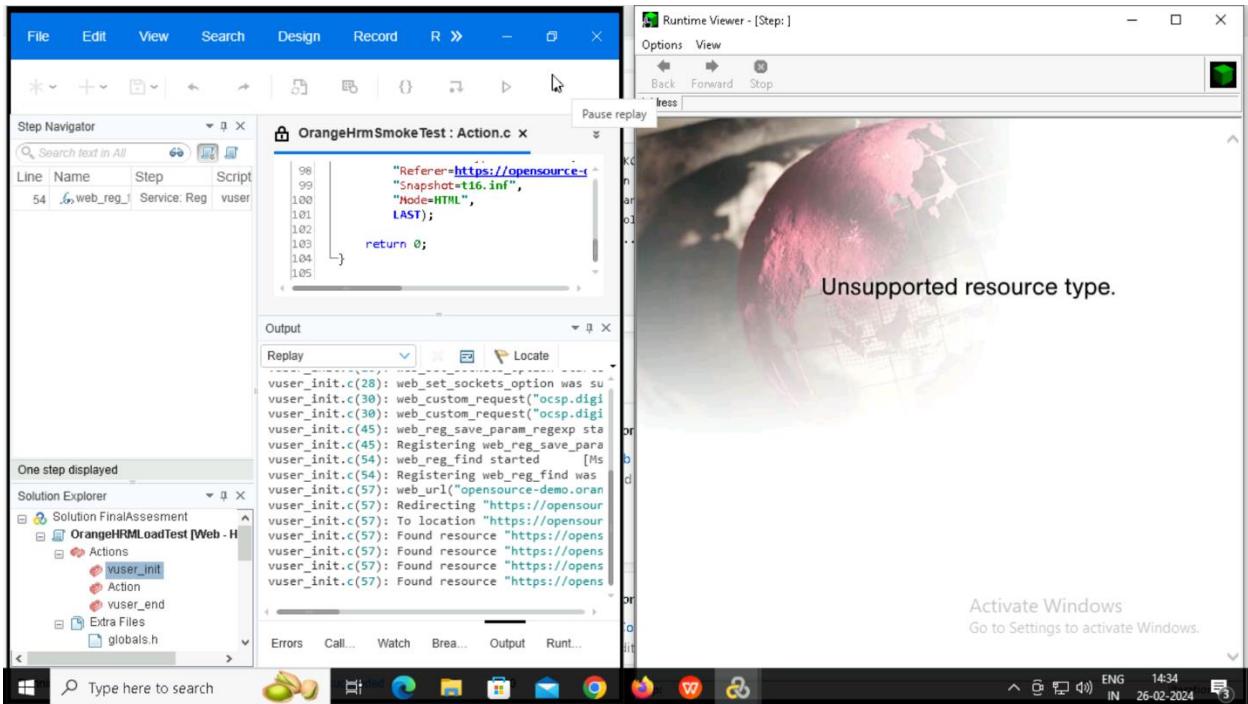
Output

Replay status passed Script parsing succeeded In 105 col 1

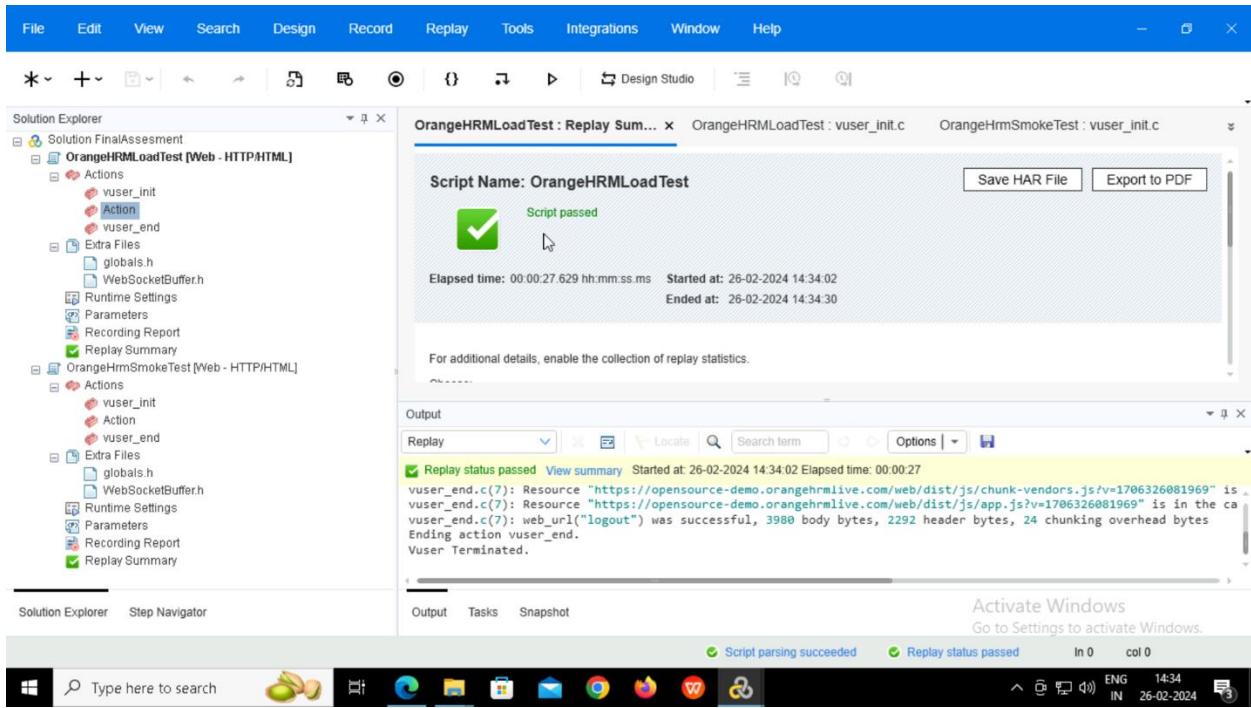
Activate Windows Go to Settings to activate Windows.



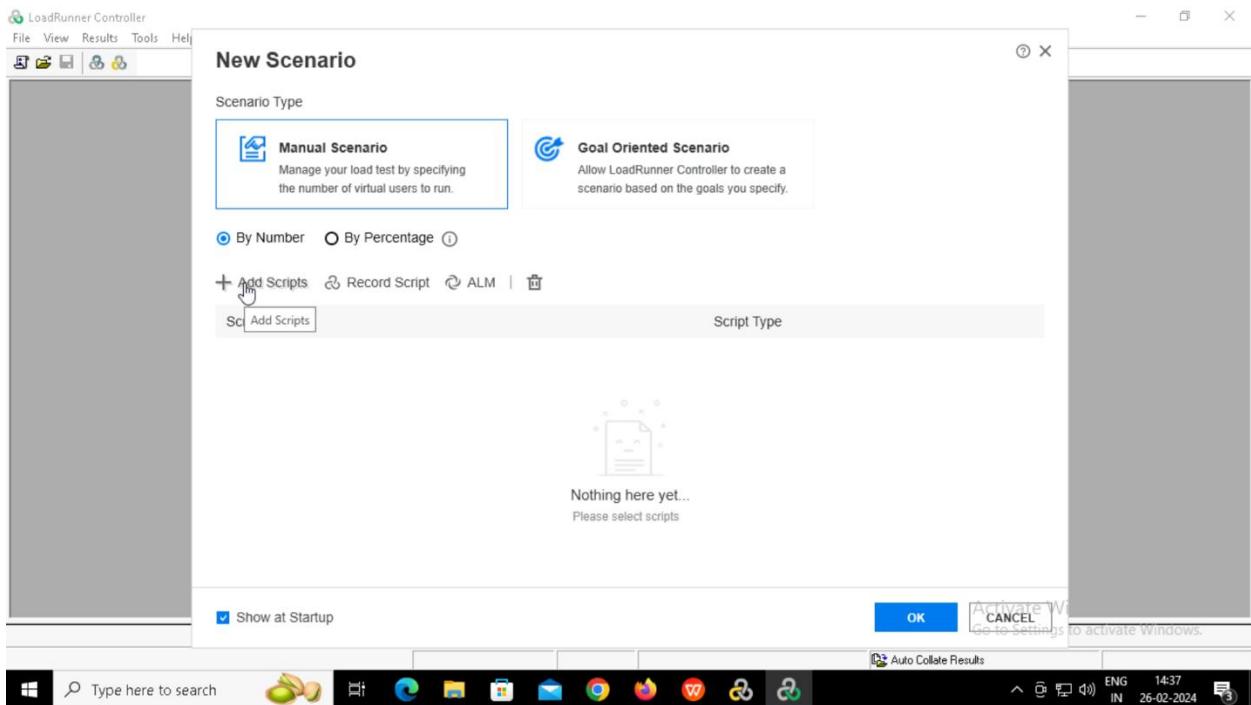
Replay the script and its success



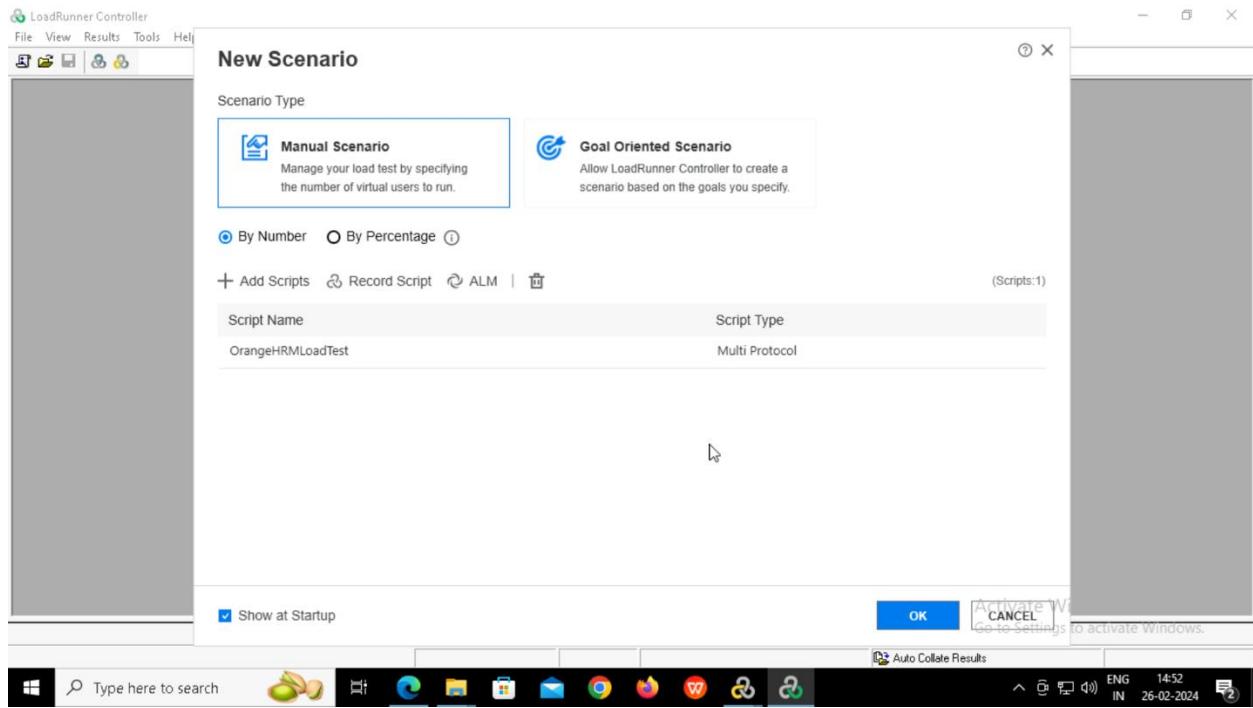
Created another script for smoke test for checking login and logout is working



Move to the controller



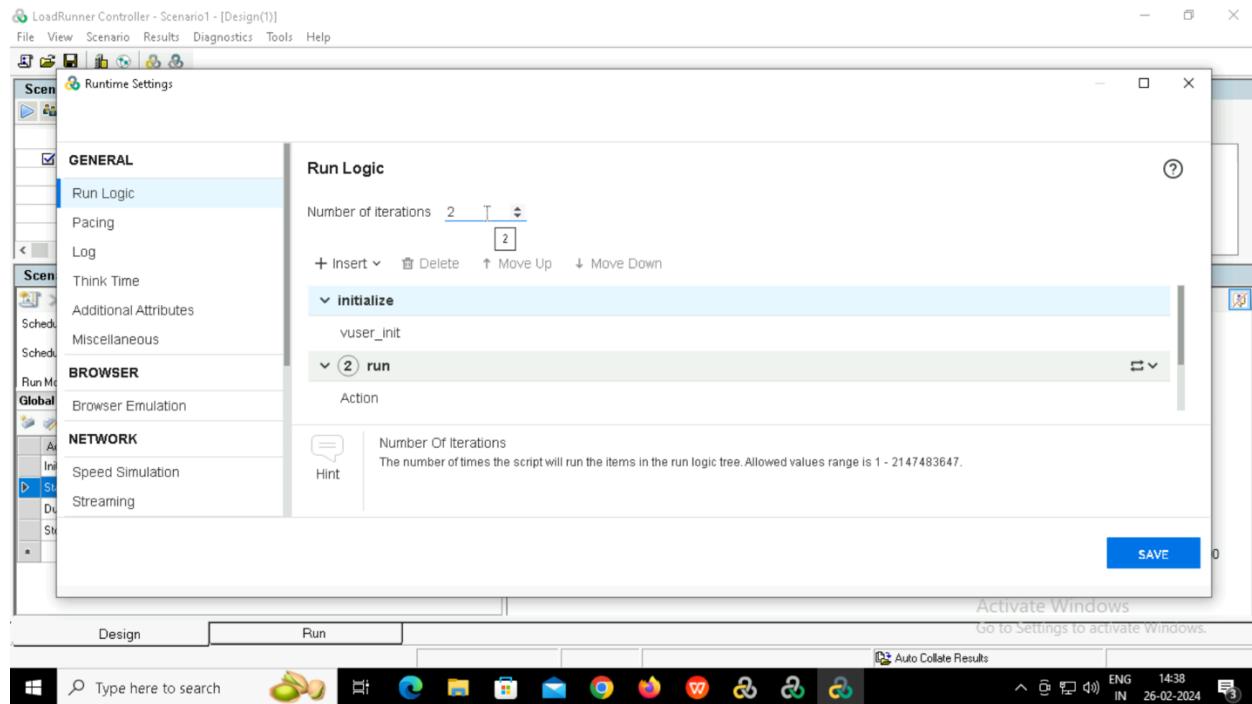
Added the script



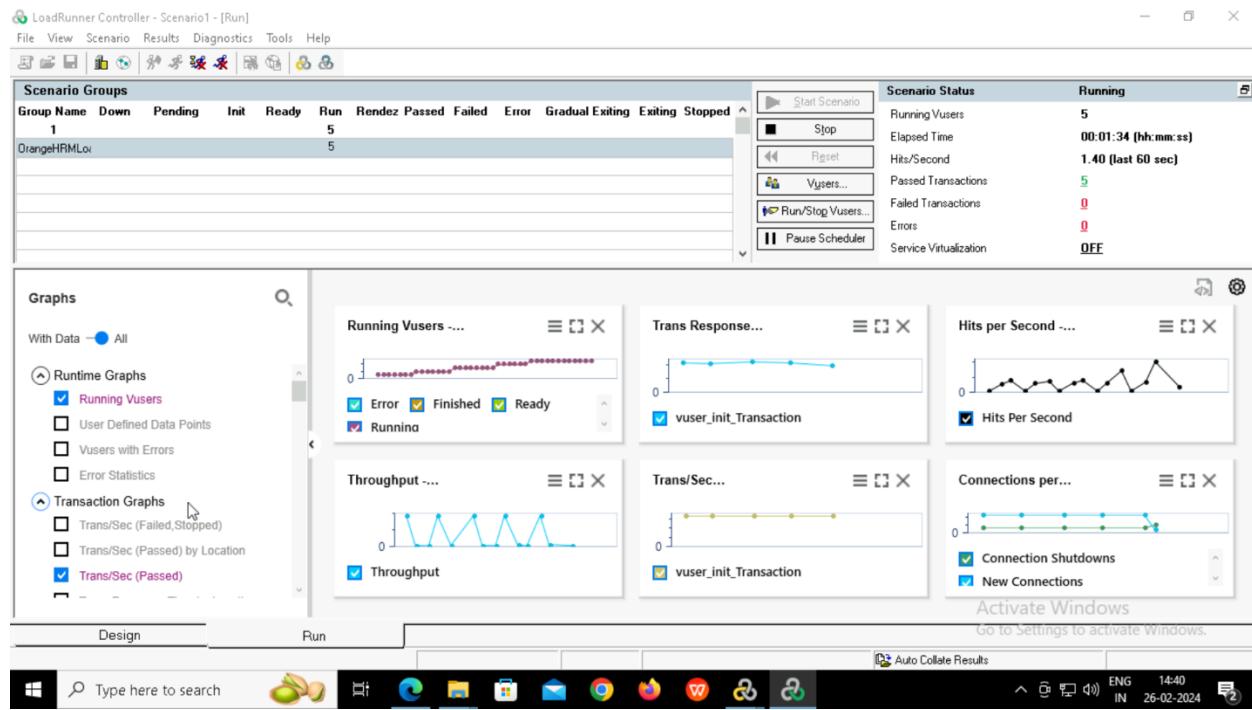
Added 5 user for load test

ID	Status	Script	Load Generator	Elapsed Time
1	Down	OrangeHRMLoadTes	localhost	
2	Down	OrangeHRMLoadTes	localhost	
3	Down	OrangeHRMLoadTes	localhost	
4	Down	OrangeHRMLoadTes	localhost	
5	Down	OrangeHRMLoadTes	localhost	

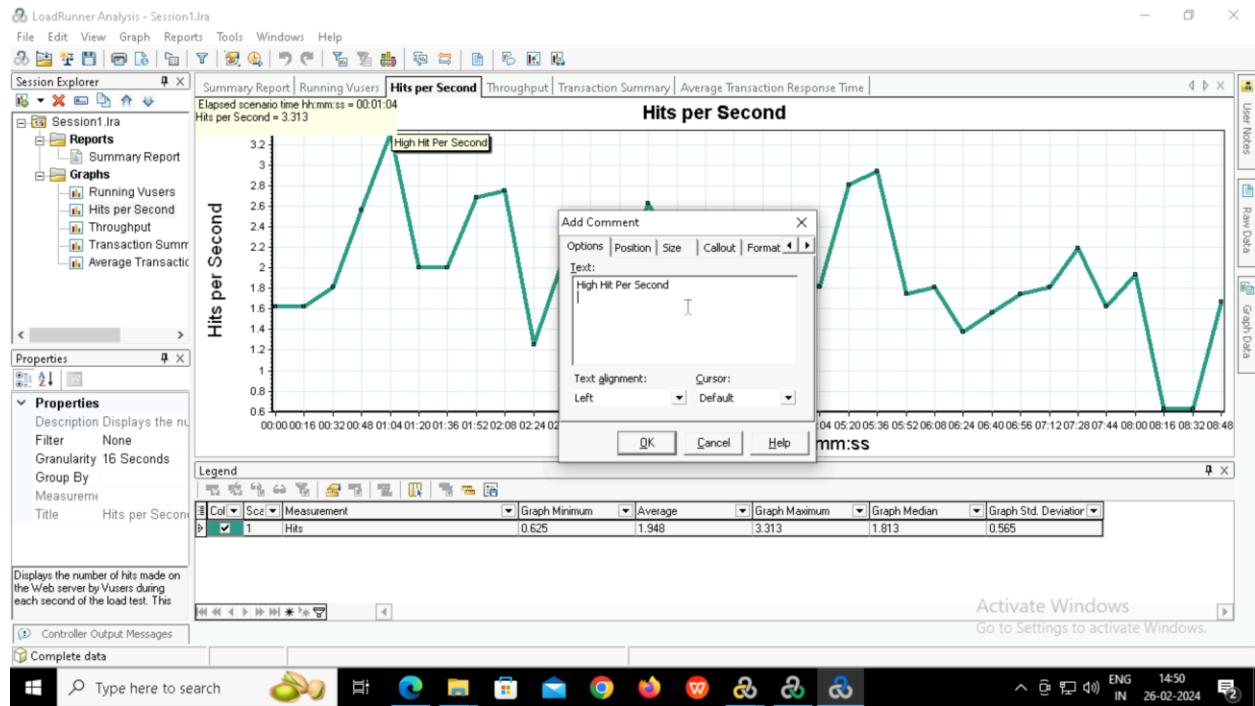
Changed the iteration



Run the scenario

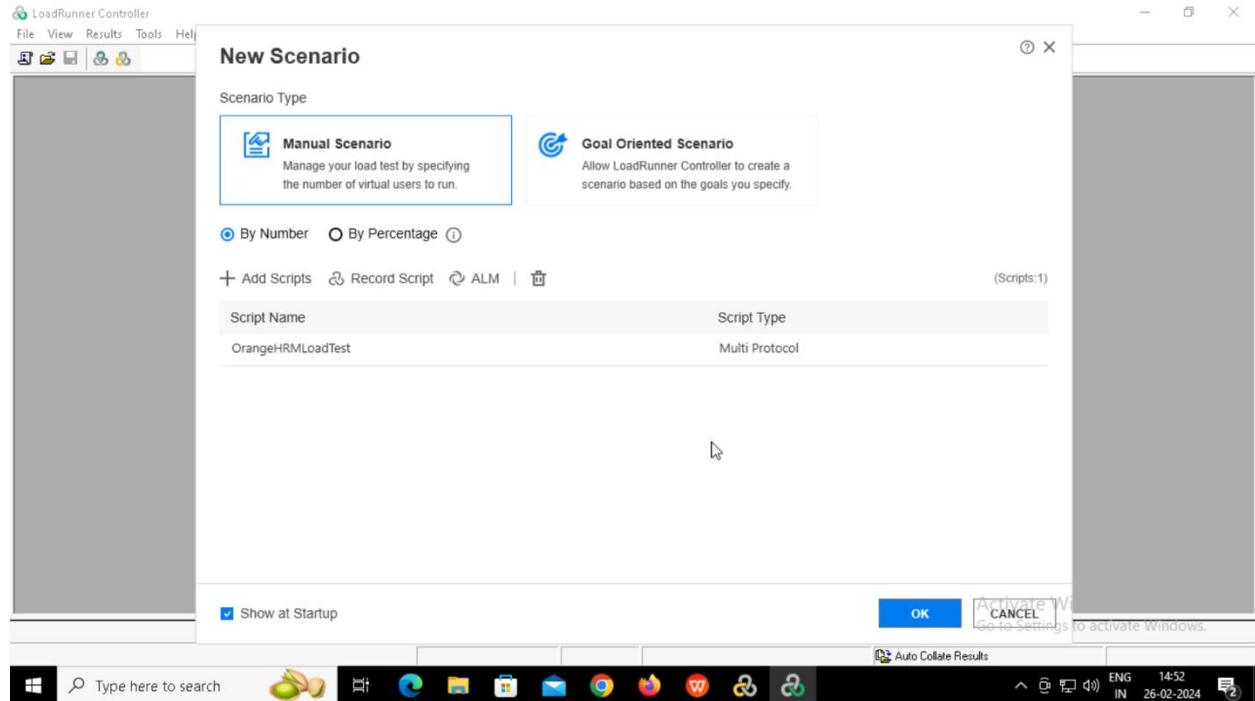


All transaction Passed and generated the report also add comments on the graphs

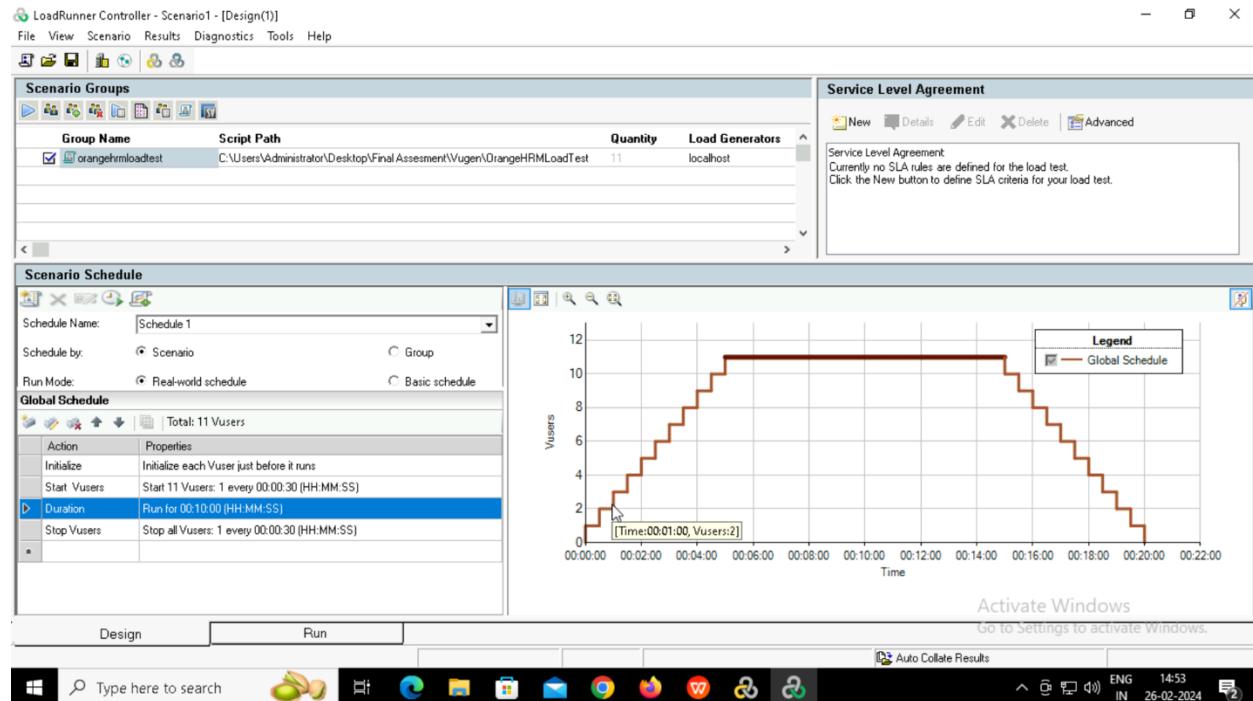


Reports are saved in the html folder

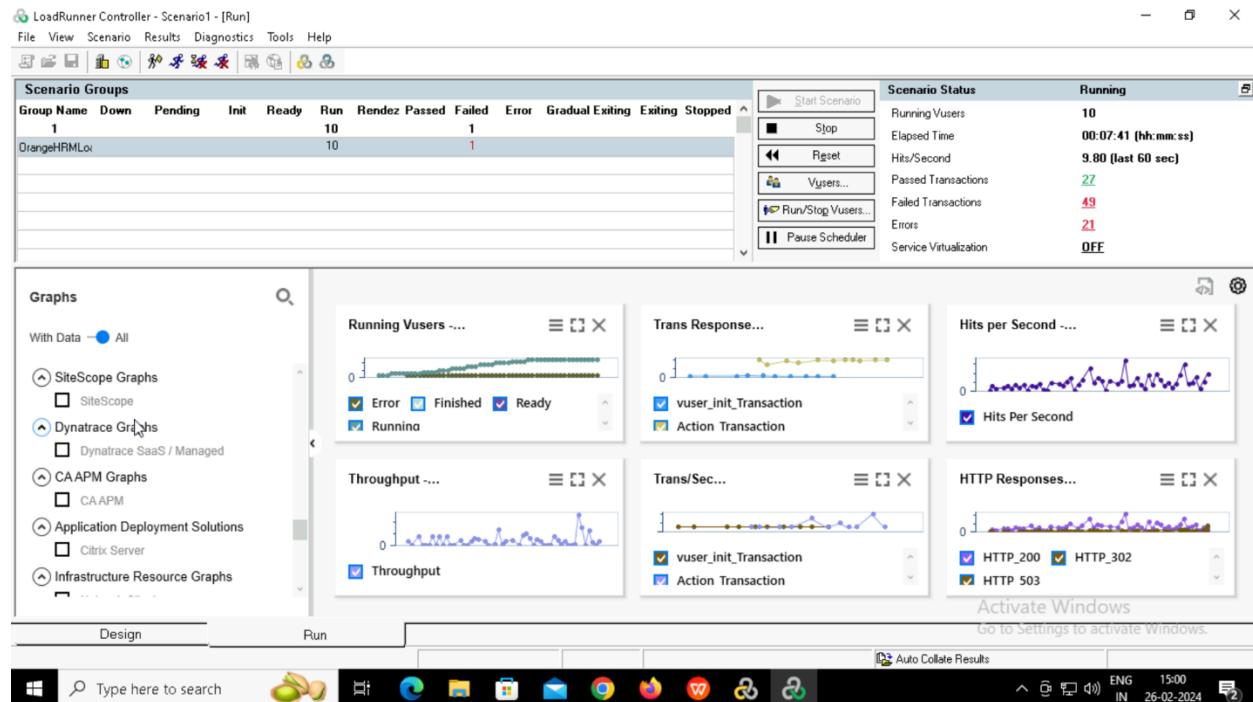
Added another scenario for stress test



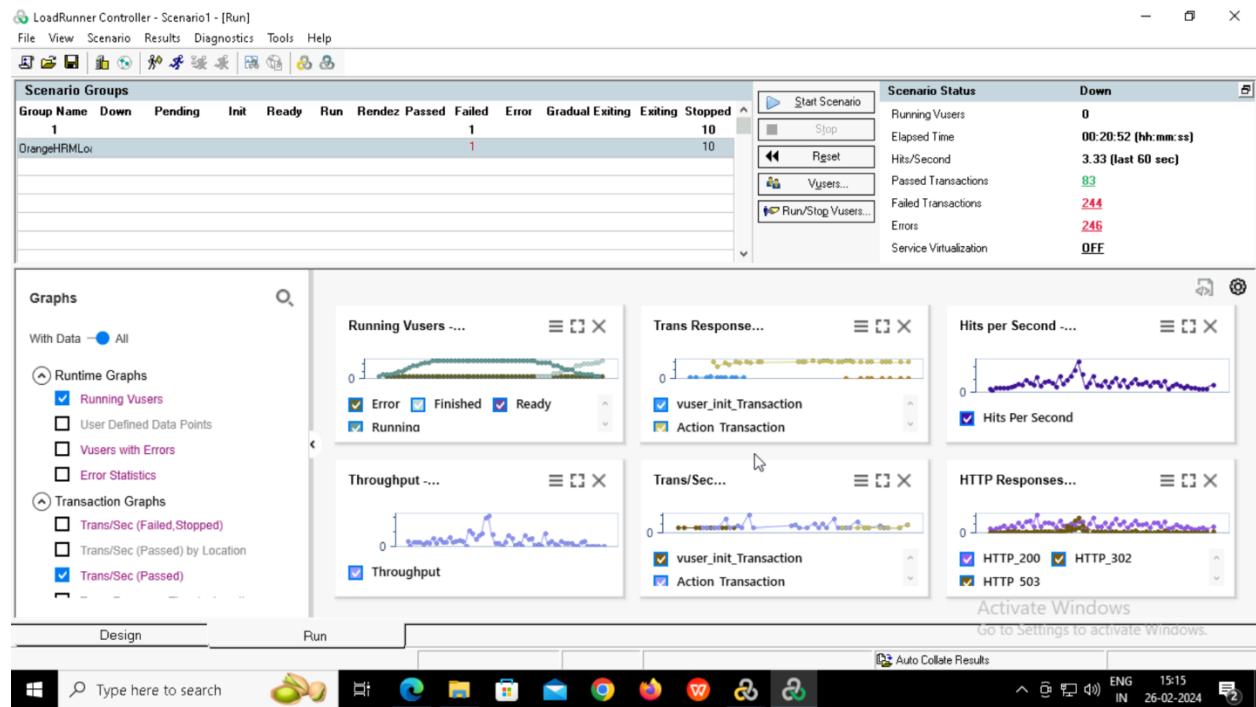
Added 11 users with 3 iteration and rampup time is 30 second rampdown time is 30 second and duration is 10 minutes



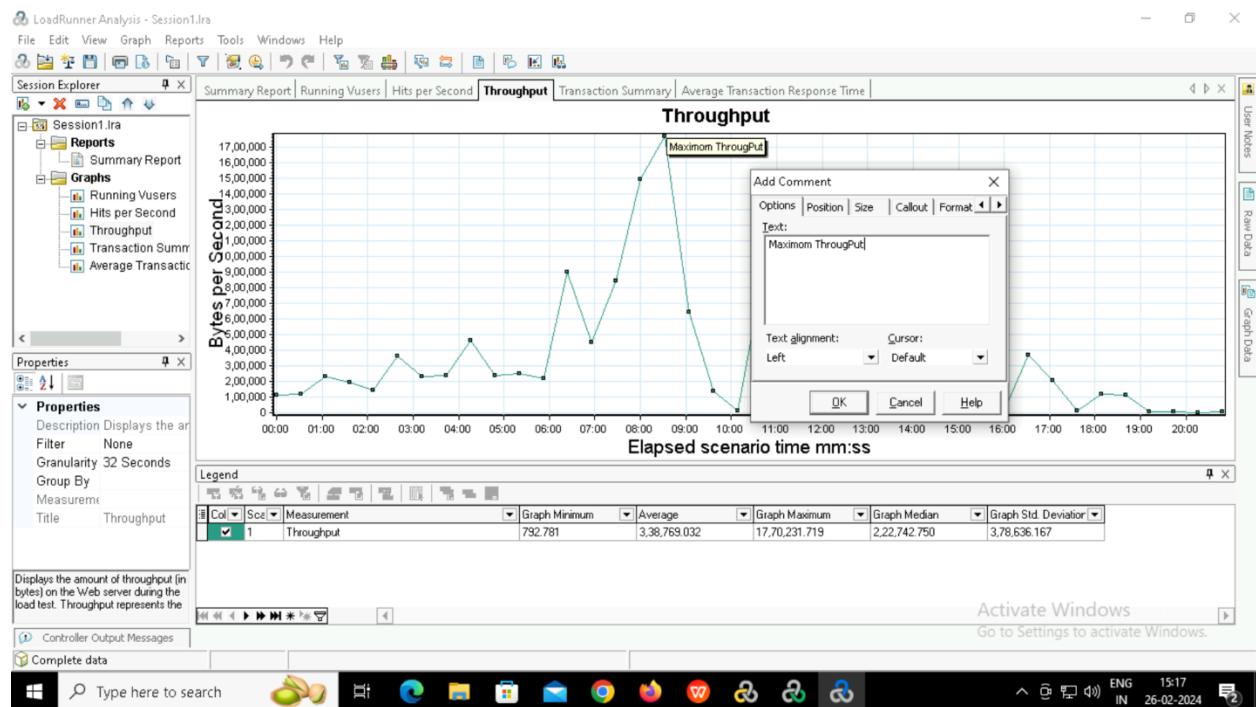
Run the stress test

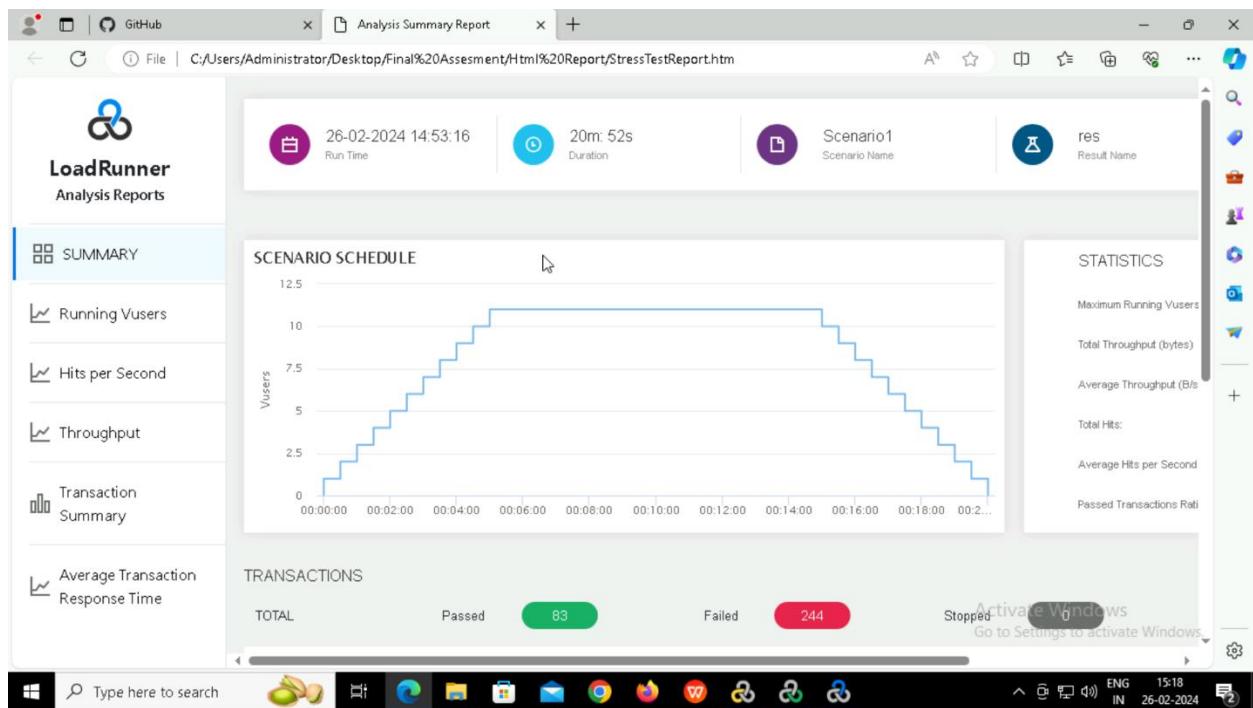


Transactions are failing in the current load its throwing 503 and 302 errors

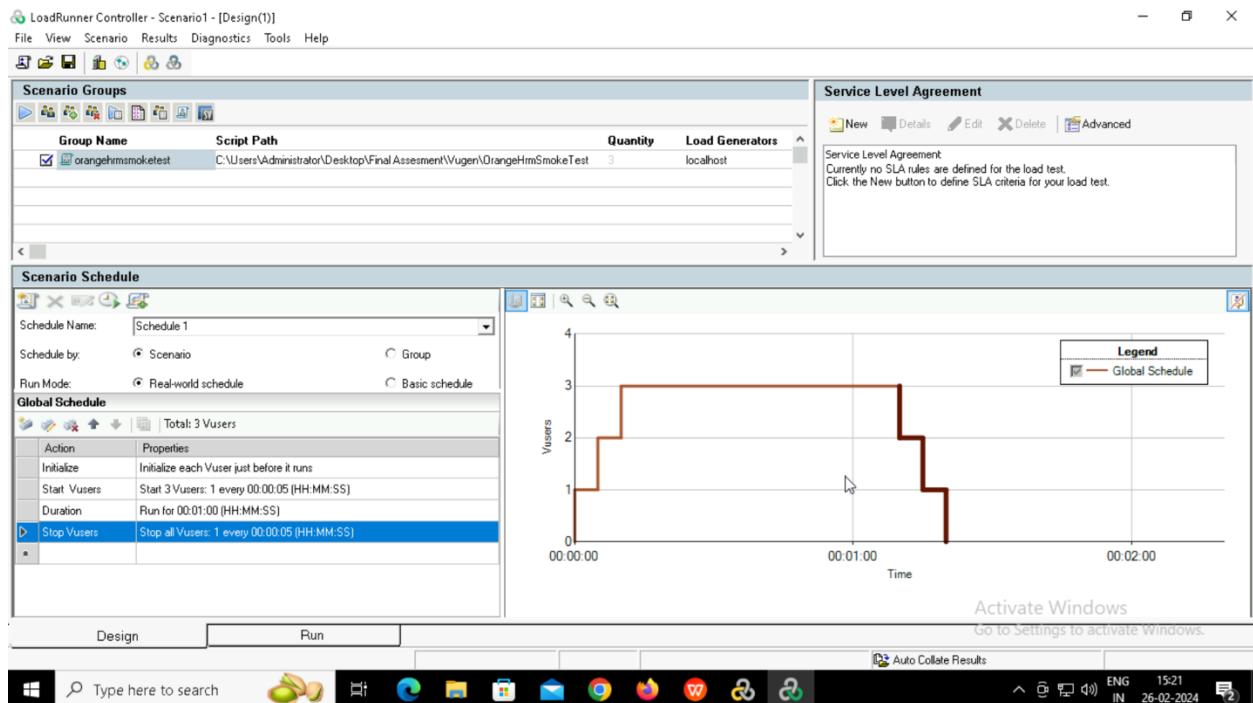


Reports are generated with the graph also added annotation in the graphs





Created a new scenario for smoke test with 3 users and 1 iteration. The Ramup and and rampdown time set to 5s and the duration is for 1 minute



Run the test

The screenshot shows the LoadRunner Controller interface for a scenario named "OrangeHmsSmo". The "Scenario Groups" table lists one group with 3 users. The "Scenario Status" panel indicates the scenario is "Down" with 0 running users, 0 elapsed time, and 0 hits/second. The "Graphs" section displays five real-time performance metrics: "Running Vusers - Whole Load Test", "Trans Response Time - Whole Load Test", "Hits per Second - Whole Load Test", "Throughput - Whole Load Test", and "Activate Windows". The "Design" tab is selected at the bottom.

Reports are generated

The screenshot shows the LoadRunner Analysis interface for a session named "Session1.lra".

Summary Report: This section displays key performance metrics:

- Run Time: 26-02-2024 15:24:14
- Duration: 1m 21s
- Scenario Name: Scenario1
- Result Name: res

SCENARIO SCHEDULE: A step function graph showing the number of users over time. The Y-axis represents "Users" from 0 to 4. The X-axis represents time from 0:00:00 to 0:01:20. A blue dot marks the "Global Schedule: 3" point at approximately 0:00:10.

Time	Users
0:00:00	0
0:00:10	3
0:01:00	2
0:01:20	0

STATISTICS:

Metric	Value
Maximum Running Users	3
Total Throughput (bytes)	15,5
Average Throughput (B/s)	19,4
Total Hits	363
Average Hits per Second	4.42
Passed Transactions Ratio	17.3

TRANSACTIONS: This section contains a table with transaction details. One row is highlighted in yellow:

Transaction ID	Request Type	URL	Response Status	Latency (ms)	Throughput (B/s)
1	GET	/index.html	200 OK	100	15.0
2	POST	/login	200 OK	200	10.0
3	GET	/profile	200 OK	150	10.0
4	PUT	/update	200 OK	300	5.0
5	DELETE	/remove	200 OK	400	3.0

Bottom Bar: Includes icons for Controller Output Messages, Complete data, and a search bar.

