Steam Test Script & Load Testing Description

This document includes the description of the Selenium Testing Script and the JMeter Load Testing.

Selenium Script:

1) Test Scenario ID: TS_Browse_Store

Test Scenario Description: Validate if the user is able to browse the store and open game pages and interact with each game without any issues.

a) Test Case ID: TC_Browse_Store_01

Test Case Description: Check if the user can open Steam Store page without any issues.

Selenium Code:

```
# Test Case ID : TC_Browse_Store_01
# Test Summery :Check if the user can
# open Steam Store page without any issues.
driver.get("https://store.steampowered.com/")
element = WebDriverWait(driver, 40)
```

b) Test Case ID: TC_Browse_Store_02

Test Case Description: Check if the user can open any game page on the store without any issues.

```
# Test Case ID : TC_Browse_Store_02
# Test Summery :Check if the user can
# open any game page on the store without any issues.
Open_Game_Page = '//*[@id="home_browsemore_carousel2"]/div[1]/div/div[2]/a'
loc_1 = driver.find_element_by_xpath(Open_Game_Page)
loc_1.click()
```

c) Test Case ID: TC_Browse_Store_03

Test Case Description: Check if the user can add any game to his Wishlist without any issues.

Selenium Code:

```
# Test Case ID : TC_Browse_Store_03
# Test Summery :Check if the user can
# Add any game to his Wishlist without any issues
Open_Game_Page_1 = '//*[@id="home_browsemore_carousel2"]/div[1]/div/div[2]/a'
loc_2 = driver.find_element_by_xpath(Open_Game_Page_1)
loc_2.click()
Add_to_Wishlist = '//*[@id="add_to_wishlist_area"]/a/span'
loc_3 = driver.find_element_by_xpath(Add_to_Wishlist)
loc_3.click()
```

d) Test Case ID: TC_Browse_Store_04

Test Case Description: Check if the user Follow any game on the store without any issues.

Selenium Code:

```
# Test Case ID : TC_Browse_Store_04
# Test Summery :Check if the user can
# Follow any game on the store without any issues
Open_Game_Page_2 = '//*[@id="home_browsemore_carousel2"]/div[1]/div/div[2]/a'
loc_4 = driver.find_element_by_xpath(Open_Game_Page_2)
loc_4.click()
Follow_Game = '/html/body/div[1]/div[7]/div[4]/div[1]/div[3]/div[4]/div[2]/div/div/div[4]/div[1]/span'
loc_5 = driver.find_element_by_xpath(Follow_Game)
loc_5.click()
```

e) Test Case ID: TC_Browse_Store_05

Test Case Description: Check if the user can Ignore any game on the store without any issues.

```
# Test Case ID : TC_Browse_Store_05
# Test Summery :Check if the user can
# Ignore any game on the store without any issues
Open_Game_Page_3 = '//*[@id="home_browsemore_carousel2"]/div[1]/div/div[2]/a'
loc_6 = driver.find_element_by_xpath(Open_Game_Page_3)
loc_6.click()
Ignore_Game = '/html/body/div[1]/div[7]/div[4]/div[1]/div[3]/div[4]/div[2]/div/div/div/5]/div[1]/div[1]/span
loc_7 = driver.find_element_by_xpath(Ignore_Game)
loc_7.click()
```

2) Test Scenario ID: TS_Search

Test Scenario Description: Validate if the user is able to search for a game in the store without any issues.

a) Test Case ID: TC_Search_01

Test Case Description: Check if the user can Search for any game in the store without any issues.

Selenium Code:

```
# Test Case ID : TC_Search_01
# Test Summery :Check if the user can
# Search for any game in the store without any issues.
SearchBox = '//*[@id="store_nav_search_term"]'
loc_8 = driver.find_element_by_xpath(SearchBox)
loc_8.send_keys("Battlefield V")
SearchButton = '//*[@id="store_search_link"]/img'
loc_9 = driver.find_element_by_xpath(SearchButton)
loc_9.click()
```

b) Test Case ID: TC_Search_02

Test Case Description: Check if the user can Search for an invalid game in the store without any issues.

```
# Test Case ID : TC_Search_02
# Test Summery :Check if the user can
# Search for an invalid game in the store without any issues.
SearchBox = '//*[@id="store_nav_search_term"]'
loc_10 = driver.find_element_by_xpath(SearchBox)
loc_10.send_keys("InvalidGameName")
SearchButton = '//*[@id="store_search_link"]/img'
loc_11 = driver.find_element_by_xpath(SearchButton)
loc_11.click()
```

3) Test Scenario ID: TS Add Item

Test Scenario Description: Validate if the user is able to add games to cart without any issues.

a) Test Case ID: TC_Add_Item_01

Test Case Description: Check if the user can add any game to cart without any issues

Selenium Code:

```
# Test Case ID : TC_Add_Item_01
# Test Summery :Check if the user can add any game to cart without
a# any issues
Open_Game_Page_4 = '//*[@id="home_browsemore_carousel2"]/div[1]/div/div[2]/a'
loc_12 = driver.find_element_by_xpath(Open_Game_Page_4)
loc_12.click()
Add_to_Cart = '//*[@id="btn_add_to_cart_415372"]/span'
loc_13 = driver.find_element_by_xpath(Add_to_Cart)
loc_13.click()
```

4) **Test Scenario ID:** TS_Remove_Item

Test Scenario Description: Validate if the user is able to remove games from cart without any issues.

a) Test Case ID: TC_Remove_Item_01

Test Case Description: Check if the user can remove any game from cart without any issues

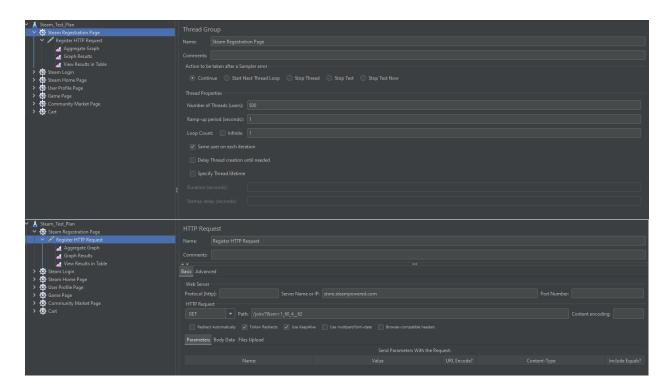
```
# Test Case ID : TC_Remove_Item_01
# Test Summery :Check if the user can remove any game
# from cart without any issues
Open_Cart = '//*[@id="cart_link"]'
loc_14 = driver.find_element_by_xpath(Open_Cart)
loc_14.click()
Remove_From_Cart = '//*[@id="cart_row_3923163864899041812"]/div[1]/div[1]/div/a'
loc_15 = driver.find_element_by_xpath(Remove_From_Cart)
loc_15.click()
```

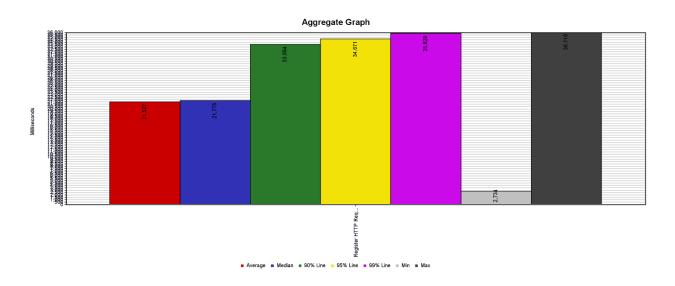
JMeter Load Testing:

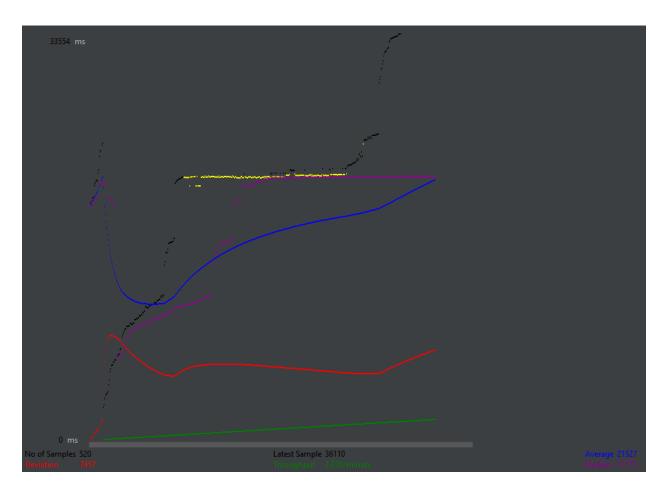
1) Test Scenario ID: TS_Register

Test Scenario Description: Validate the ability of the user to register without any issues.

Test Steps:





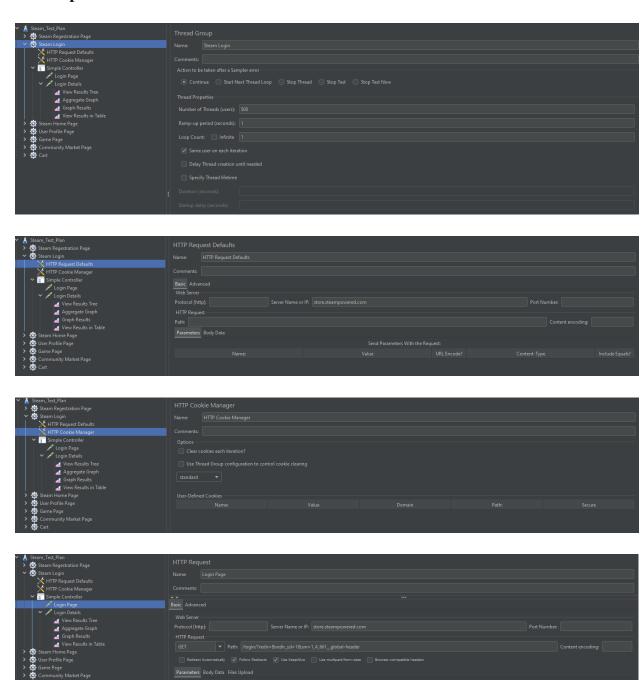


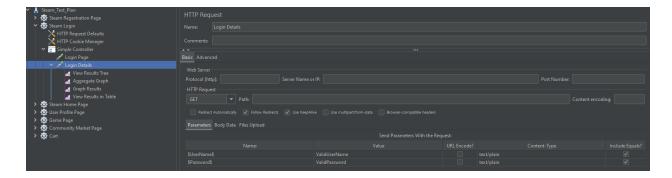
Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
1	16:15:24.838	Steam Regestratio	Register HTTP Req		€				29
2	16:15:24.788	Steam Regestratio	Register HTTP Req		€				82
3	16:15:24.887	Steam Regestratio	Register HTTP Req		€				41
4	16:15:25.192	Steam Regestratio	Register HTTP Req		€				49
5		Steam Regestratio	Register HTTP Req		€				59
6	16:15:24.940	Steam Regestratio	Register HTTP Req	20097	€				99
7		Steam Regestratio	Register HTTP Req		€				36
8	16:15:25.339	Steam Regestratio	Register HTTP Req	20980	€				145
9	16:15:25.239	Steam Regestratio	Register HTTP Req		€	54473			229
10	16:15:25.291	Steam Regestratio	Register HTTP Req		€				189
11	16:15:25.388	Steam Regestratio	Register HTTP Req		€				98
12	16:15:25.438	Steam Regestratio	Register HTTP Req		€				56
13		Steam Regestratio	Register HTTP Req		€	54473			32
14		Steam Regestratio	Register HTTP Req	22343	€	54473			33
15	16:15:25.495	Steam Regestratio	Register HTTP Req	23449	€	54473		2042	23
16		Steam Regestratio	Register HTTP Req		€	54473			34
17		Steam Regestratio	Register HTTP Req		€				281
18	16:15:25.638	Steam Regestratio	Register HTTP Req		€			3446	233
19	16:15:25.739	Steam Regestratio	Register HTTP Req		€	54473			172
20	16:15:25.688	Steam Regestratio	Register HTTP Req		€	54473		3394	187
21	19:03:42.941	Steam Regestratio	Register HTTP Req		€	54473	290		58
22	19:03:42.922	Steam Regestratio	Register HTTP Req	2946	€	54473			49
23	19:03:42.867	Steam Regestratio	Register HTTP Req	3442	€	54473			69
24	19:03:42.917	Steam Regestratio	Register HTTP Req		€	54473			28
25	19:03:42.882	Steam Regestratio	Register HTTP Req		€	54473			116
26	19:03:42.900	Steam Regestratio	Register HTTP Req		€	54473			98
27	19:03:42.892	Steam Regestratio	Register HTTP Req	3942	€	54473			106
28	19:03:42.889	Steam Regestratio	Register HTTP Req	4045	€	54473			110
29	19:03:42.875	Steam Regestratio	Register HTTP Req	4584	€	54473			124
30	19:03:42.974	Steam Regestratio	Register HTTP Req	4989	€	54473			39
31	19:03:42.871		Register HTTP Req		€				127
Scroll automatical	y? 🔲 Child sample	es?	No of	Samples 520	Latest Sample	36110 Average 21	1527 Deviation 7	457	

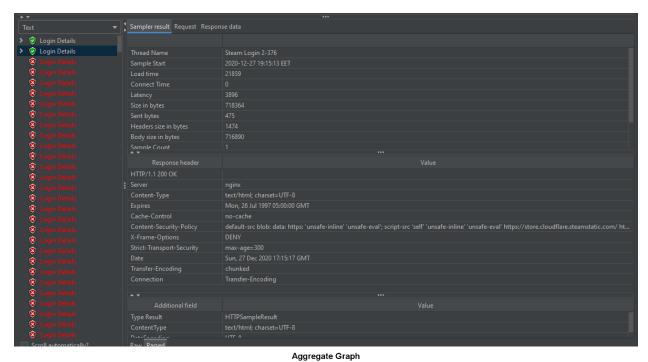
2) Test Scenario ID: TS_Login

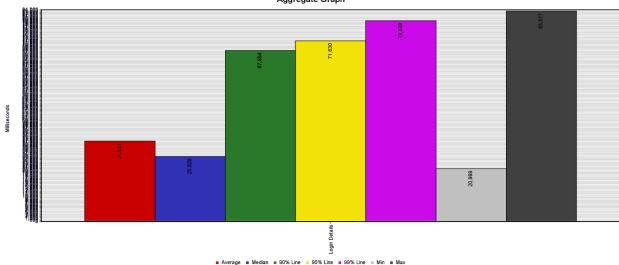
Test Scenario Description: Validate the ability of the user to login without any issues.

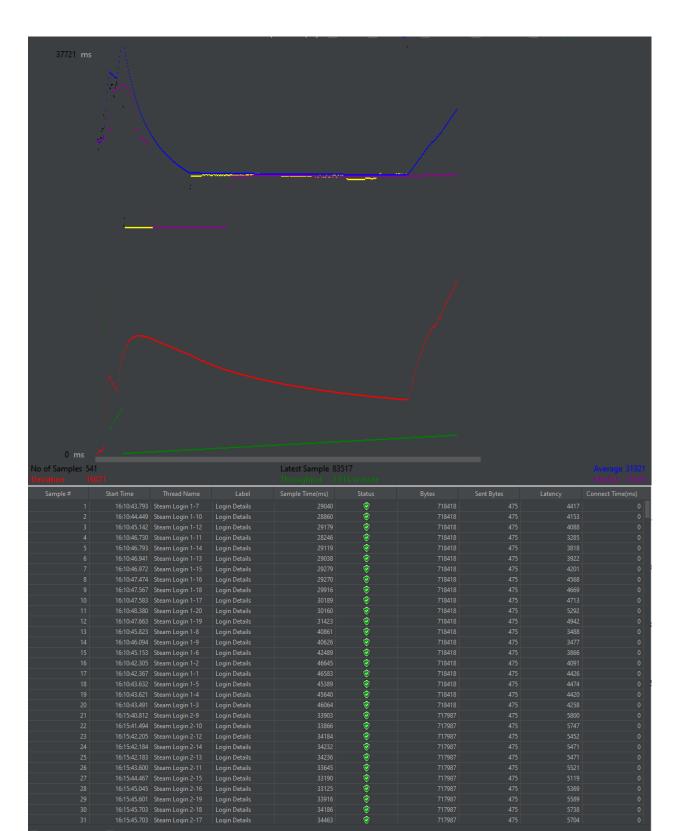
Test Steps:







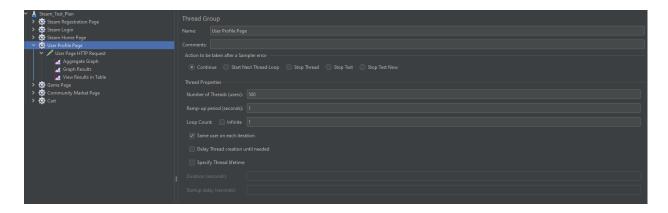




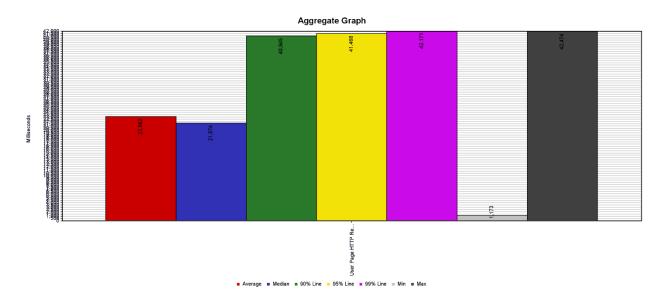
3) Test Scenario ID: TS_Profile

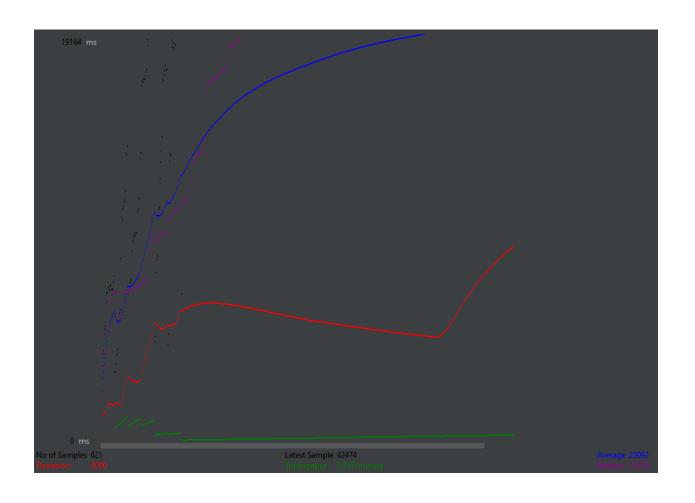
Test Scenario Description: Validate if the user is able to browse and modify his/her profile.

Test Steps:







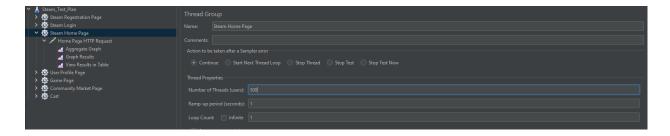


Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
1	15:42:14.878	User Profile Page 4	User Page HTTP R		©				28
2	15:42:14.778	User Profile Page 4	User Page HTTP R		©				50
3	15:42:14.928	User Profile Page 4	User Page HTTP R		©				27
4	15:42:15.029	User Profile Page 4	User Page HTTP R		€				29
5	15:42:14.829	User Profile Page 4	User Page HTTP R		€				28
6	15:42:14.728	User Profile Page 4	User Page HTTP R		€				99
7	15:42:14.979	User Profile Page 4	User Page HTTP R		⊙	96799			28
8	15:42:15.080	User Profile Page 4	User Page HTTP R		⊙				133
9	15:42:15.627	User Profile Page 4	User Page HTTP R		⊙				107
10	15:42:15.378	User Profile Page 4	User Page HTTP R		⊙				31
11	15:42:15.127	User Profile Page 4	User Page HTTP R		€				108
12	15:42:15.227	User Profile Page 4	User Page HTTP R		€				23
13	15:42:15.329	User Profile Page 4	User Page HTTP R		€				33
14	15:42:15.178	User Profile Page 4	User Page HTTP R		€				56
15	15:42:15.278	User Profile Page 4	User Page HTTP R		€			442	19
16	15:42:15.528	User Profile Page 4	User Page HTTP R		⊙				205
17	15:42:15.477	User Profile Page 4	User Page HTTP R		⊙				248
18	15:42:15.577	User Profile Page 4	User Page HTTP R		⊙				157
19	15:42:15.677	User Profile Page 4	User Page HTTP R		©				70
20	15:42:15.428	User Profile Page 4	User Page HTTP R		€				296
21	15:45:48.425	User Profile Page 4	User Page HTTP R		€				174
22	15:45:48.474	User Profile Page 4	User Page HTTP R		€				130
23	15:45:48.374	User Profile Page 4	User Page HTTP R	3648	€				227
24	15:45:48.273	User Profile Page 4	User Page HTTP R		€				325
25	15:45:48.323	User Profile Page 4	User Page HTTP R		⊗				277
26	15:45:48.824	User Profile Page 4	User Page HTTP R		⊙				198
27	15:45:48.774	User Profile Page 4	User Page HTTP R		€				218
28	15:45:48.874	User Profile Page 4	User Page HTTP R		€				196
29	15:45:48.925	User Profile Page 4	User Page HTTP R		€				204
30	15:45:48.573	User Profile Page 4	User Page HTTP R		€				126
31	15:45:48.525	User Profile Page 4	User Page HTTP R		ூ				131
Scroll automaticall	ly? 🔲 Child sample	es?	No of	Samples 621	Latest Sample 4	12474 Average 23	092 Deviation 9	200	

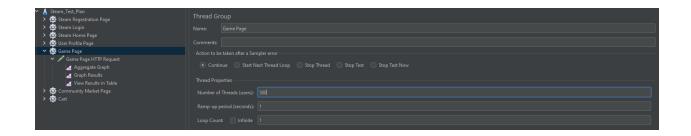
4) Test Scenario ID: TS_Browse_store

Test Scenario Description: Validate if the user is able to browse the store and open game pages and interact with each game without any issues.

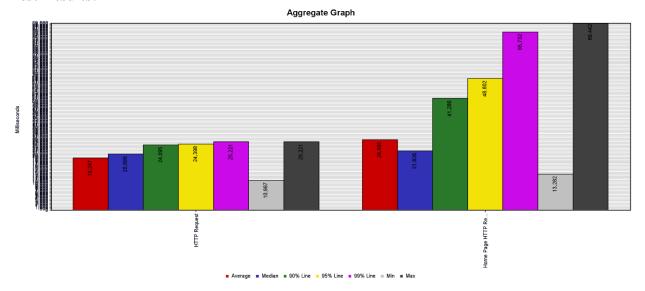
Test Steps:

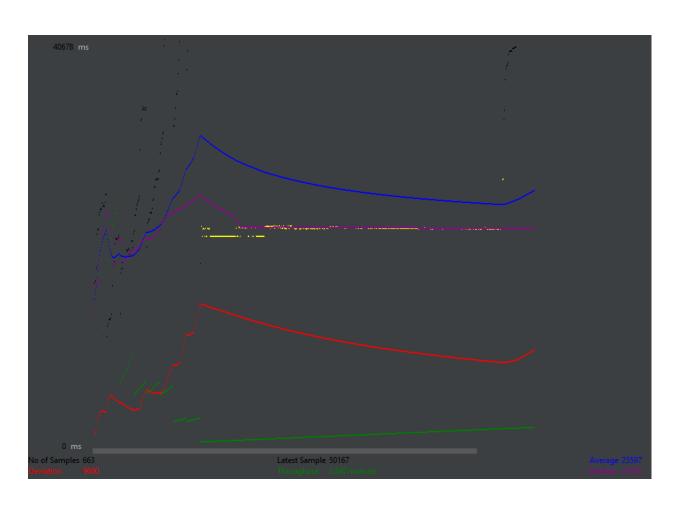




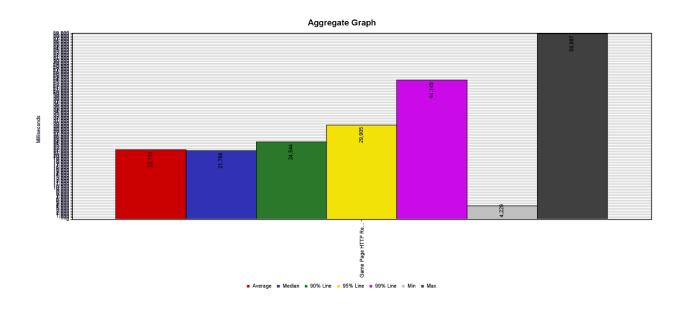


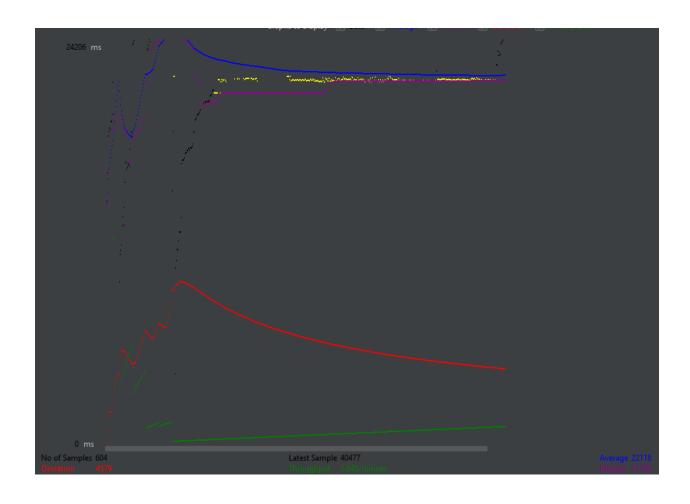






Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
46	15:42:15.275	Steam Home Page	Home Page HTTP		⊗				
47	15:42:15.223	Steam Home Page	Home Page HTTP	18669	€	689198			
48	15:42:15.474	Steam Home Page	Home Page HTTP	18614	€	689205			
49	15:42:15.424	Steam Home Page	Home Page HTTP	18685	€	689205			
50	15:42:14.773	Steam Home Page	Home Page HTTP	19696	€	689201			
51	15:42:15.126	Steam Home Page	Home Page HTTP	19479	€	689222			
52	15:42:15.175	Steam Home Page	Home Page HTTP		€				
53	15:42:15.075	Steam Home Page	Home Page HTTP	19688	€				
54	15:42:14.974	Steam Home Page	Home Page HTTP	19809	€	689208			
55	15:42:15.625	Steam Home Page	Home Page HTTP		€				
56	15:42:15.574	Steam Home Page	Home Page HTTP		€				
57	15:42:15.524	Steam Home Page	Home Page HTTP		€				
58	15:42:14.824	Steam Home Page	Home Page HTTP		©				
59	15:42:14.926	Steam Home Page	Home Page HTTP		©				
60	15:42:15.673	Steam Home Page	Home Page HTTP		©				
61	15:45:48.669	Steam Home Page	Home Page HTTP		©				
62	15:45:48.719	Steam Home Page	Home Page HTTP		©				
63	15:45:48.820	Steam Home Page	Home Page HTTP	23065	©				
64	15:45:48.870	Steam Home Page	Home Page HTTP		⊙	689181			
65	15:45:48.920	Steam Home Page	Home Page HTTP		⊙				
66	15:45:49.019	Steam Home Page	Home Page HTTP		€				
67	15:45:49.119	Steam Home Page	Home Page HTTP		€				
68	15:45:48.971	Steam Home Page	Home Page HTTP		€				
69	15:45:49.170	Steam Home Page	Home Page HTTP		€				
70	15:45:49.069	Steam Home Page	Home Page HTTP		€				
71	15:45:48.321	Steam Home Page	Home Page HTTP	29646	€				
72	15:45:48.769	Steam Home Page	Home Page HTTP		€				
73	15:45:49.220	Steam Home Page	Home Page HTTP	32709	€	689181	248		
74	15:45:48.521	Steam Home Page	Home Page HTTP		€	689181	248		
75	15:45:48.270	Steam Home Page	Home Page HTTP		€	689181	248	840	
76	15:45:48.471	Steam Home Page	Home Page HTTP		€	689181			
Scroll automatically?	? Child sample	es?	No of	Samples 663	Latest Sample	50167 Average 25	5597 Deviation	9610	





Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
1		Game Page 5-12	Game Page HTTP		€	187746			216
2		Game Page 5-13	Game Page HTTP	14549	ĕ i	187737			200
3		Game Page 5-14	Game Page HTTP	16233	<u> </u>	187715		1090	205
4		Game Page 5-18	Game Page HTTP	18448	<u> </u>	187714		1258	244
5		Game Page 5-16	Game Page HTTP	18705	<u> </u>	187743			280
6		Game Page 5-17	Game Page HTTP	18911	ŏ	187707	284		262
7		Game Page 5-20	Game Page HTTP	18831	- ĕ	187737		1169	241
8		Game Page 5-15	Game Page HTTP		· · · · · ·	187720	284		196
9		Game Page 5-19	Game Page HTTP		- ĕ	187748			268
10		Game Page 5-11	Game Page HTTP	19747		187742		1597	214
11		Game Page 5-9	Game Page HTTP	21655	⊗	187744	284		130
12	15:45:48.726	Game Page 5-10	Game Page HTTP	25391	⊙	187706	284	684	184
13		Game Page 5-6	Game Page HTTP	25788	⊙	187718	284	769	140
14	15:45:48.626	Game Page 5-8	Game Page HTTP				284		113
15	15:45:48.577	Game Page 5-7	Game Page HTTP				284		123
16	15:45:48.326	Game Page 5-2	Game Page HTTP				284		269
17	15:45:48.427	Game Page 5-4	Game Page HTTP		⊘		284		172
18	15:45:48.476	Game Page 5-5	Game Page HTTP		⊗				129
19	15:45:48.376	Game Page 5-3	Game Page HTTP		⊗				218
20	15:45:48.277	Game Page 5-1	Game Page HTTP		⊗				316
21	15:48:10.626	Game Page 5-1	Game Page HTTP		⊗				65
22	15:48:10.726	Game Page 5-3	Game Page HTTP		⊗				31
23	15:48:11.127	Game Page 5-11	Game Page HTTP		€				32
24	15:48:11.076	Game Page 5-10	Game Page HTTP		€				37
25	15:48:11.226	Game Page 5-13	Game Page HTTP		€				25
26	15:48:10.978	Game Page 5-8	Game Page HTTP		€				129
27	15:48:11.575	Game Page 5-20	Game Page HTTP		€				133
28	15:48:10.776	Game Page 5-4	Game Page HTTP		⊗				20
29	15:48:10.826	Game Page 5-5	Game Page HTTP		⊗				24
30	15:48:10.676	Game Page 5-2	Game Page HTTP		⊗				32
31	15:48:10.875	Game Page 5-6	Game Page HTTP	16906	⊗				25
Scroll automatically?	Child sample	es?	No of	Samples 604	Latest Sample 40	0477 Average 221	18 Deviation 45	79	

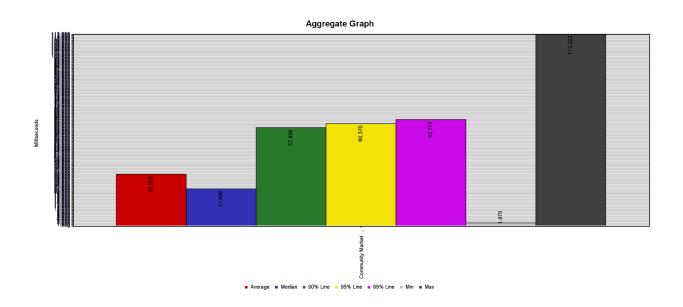
5) Test Scenario ID: TS_Browse_Community_Market

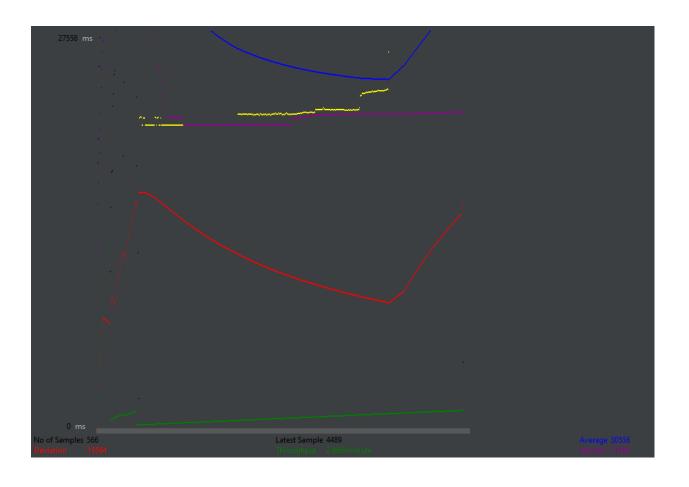
Test Scenario Description: Validate if the user is able to browse the community market and Buy or Sell items without any issues.

Test Steps:









Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
	15:50:49.073	Community Mark	Community Mark		⊙	306246	254		27
	15:50:49.021	Community Mark	Community Mark		©	306246	254		63
	15:50:48.972	Community Mark	Community Mark		⊙	306246			114
	15:50:49.871	Community Mark	Community Mark		©	306246			31
	15:50:49.925	Community Mark	Community Mark		©	306246			38
	15:50:49.472	Community Mark	Community Mark		€				75
	15:50:49.772	Community Mark	Community Mark	33993	€	306246			56
	15:50:49.823	Community Mark	Community Mark		€	306246			21
	15:50:49.644	Community Mark	Community Mark	34887	€				46
	15:50:49.722	Community Mark	Community Mark	34986	€	306246			71
	15:50:49.672	Community Mark	Community Mark		€	306246			126
	15:50:49.371	Community Mark	Community Mark		€	306246			164
	15:50:49.421	Community Mark	Community Mark		€				117
	15:50:49.522	Community Mark	Community Mark		€				28
	15:50:49.173	Community Mark	Community Mark		€				34
	15:50:49.322	Community Mark	Community Mark		€				43
	15:50:49.123	Community Mark	Community Mark		€				26
	15:50:49.223	Community Mark	Community Mark		€				29
	15:50:49.273	Community Mark	Community Mark		€	306246			51
	15:50:49.580	Community Mark	Community Mark		€				30
		Community Mark	Community Mark		€	306246			85
	16:10:30.646	Community Mark	Community Mark	15249	€	306246			34
		Community Mark	Community Mark		€	306246			31
		Community Mark	Community Mark		€	306246			102
	16:10:30.945	Community Mark	Community Mark		€	306246			52
	16:10:30.746	Community Mark	Community Mark		€	306246			23
	16:10:31.496	Community Mark	Community Mark		€	306246			201
	16:10:31.546	Community Mark	Community Mark		€	306246			150
		Community Mark	Community Mark		€	306246			22
		Community Mark	Community Mark	46998	€	306246			160
	16:10:31.245	Community Mark	Community Mark		€				88
Scroll automatically	y? 🔲 Child sample	es?	No of	Samples 566	Latest Sample 4	489 Average 30	556 Deviation 15	584	

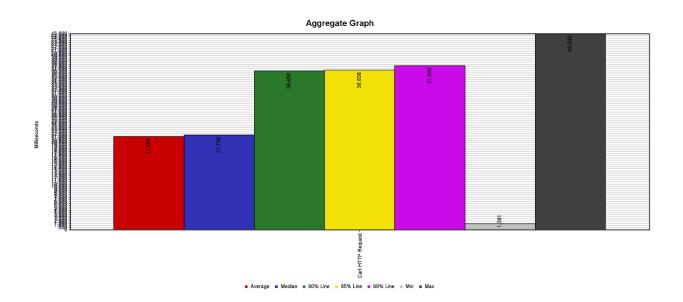
6) Test Scenario ID: TS_Add_Item

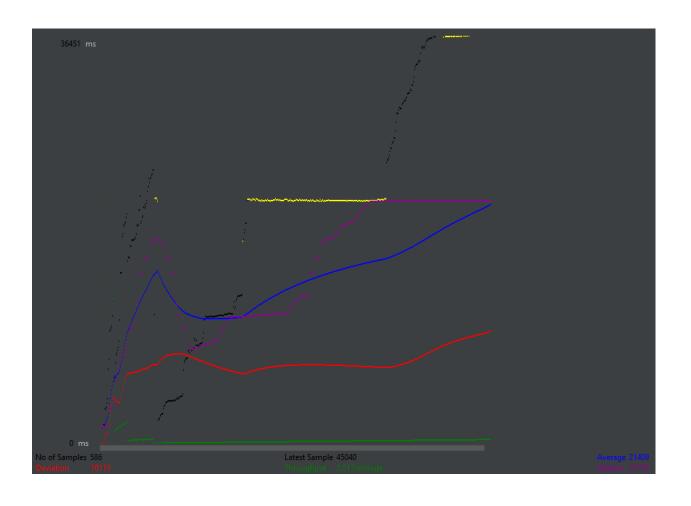
Test Scenario Description: Validate if the user is able to add games to cart without any issues.

Test Steps:









Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
	15:48:10.629	Cart 6-1	Cart HTTP Request	1464	©				76
	15:48:10.680	Cart 6-2	Cart HTTP Request		⊗				29
	15:48:10.779	Cart 6-4	Cart HTTP Request		€				25
	15:48:10.878	Cart 6-6	Cart HTTP Request		€				38
	15:48:10.730	Cart 6-3	Cart HTTP Request		€				27
	15:48:10.829	Cart 6-5	Cart HTTP Request		€				22
	15:48:10.929	Cart 6-7	Cart HTTP Request		⊙				168
	15:48:11.030	Cart 6-9	Cart HTTP Request	3086	⊙				77
	15:48:11.079	Cart 6-10	Cart HTTP Request		⊙				36
	15:48:11.130	Cart 6-11	Cart HTTP Request		⊙				27
	15:48:10.980	Cart 6-8	Cart HTTP Request		€				131
	15:48:11.180	Cart 6-12	Cart HTTP Request		⊙				34
	15:48:11.229	Cart 6-13	Cart HTTP Request		⊙				33
	15:48:11.379	Cart 6-16	Cart HTTP Request		⊙				85
	15:48:11.279	Cart 6-14	Cart HTTP Request		⊙				181
	15:48:11.432	Cart 6-17	Cart HTTP Request		⊙				46
	15:48:11.329	Cart 6-15	Cart HTTP Request		⊙			494	133
	15:48:11.479	Cart 6-18	Cart HTTP Request		⊙				45
	15:48:11.545	Cart 6-19	Cart HTTP Request		⊙				35
	15:48:11.579	Cart 6-20	Cart HTTP Request		⊙				194
	15:50:48.975	Cart 7-1	Cart HTTP Request		⊙				111
	15:50:49.025	Cart 7-2	Cart HTTP Request		⊙				59
	15:50:49.076	Cart 7-3	Cart HTTP Request		⊙				25
	15:50:49.275	Cart 7-7	Cart HTTP Request		⊙				49
	15:50:49.175	Cart 7-5	Cart HTTP Request		⊙				33
	15:50:49.127	Cart 7-4	Cart HTTP Request		⊙				33
	15:50:49.225	Cart 7-6	Cart HTTP Request	8602	⊙				29
	15:50:49.425	Cart 7-10	Cart HTTP Request		⊙				114
	15:50:49.375	Cart 7-9	Cart HTTP Request	11041	⊗				165
	15:50:49.326	Cart 7-8	Cart HTTP Request		⊗				36
	15:50:49.475	Cart 7-11	Cart HTTP Request		ூ				72
Scroll automatically	y? 🔲 Child sample	es?	No of	Samples 586	Latest Sample 4	45040 Average 2	1409 Deviation	10113	