

MINI PROJECT 1

Sachandana_project11 - Excel (Product Activation failed)

1. Open the website.
2. Enter "laptop" in the search bar.
3. Click on the search button.

Test Case ID	Test Case Description	Requirement	Test Data	Test Steps	Expected Result	Actual Result	Priority	Pass/Fail
TC001	Verify homepage loading	Homepage should load within 3 seconds	N/A	1. Open the website URL.	Homepage loads within 3 seconds.	Homepage loaded in 2 seconds.		Pass
TC002	Verify search functionality	Search results should be displayed correctly	Search term: "laptop"	1. Open the website. 2. Enter "laptop" in the search bar. 3. Click on the search button.	Relevant search results for "laptop" are displayed.	Relevant search results for "laptop" are displayed.		Pass
TC003	Verify product details page	Product details should be shown correctly	Product ID: 12345	1. Search for a product using ID 12345. 2. Click on the product link from the results.	Product details page shows correct information for product ID 12345.	Product details are correct, but image is missing.		Fail
TC004	Verify add to cart functionality	Users should be able to add products to cart	Product ID: 12345	1. Search for a product using ID 12345. 2. Click on "Add to Cart" button.	Product is added to the cart successfully.	Product added to the cart successfully.		Pass
TC005	Verify cart contents	Cart should display correct products	Product ID: 12345	1. Add a product to the cart (ID: 12345). 2. Open the cart.	Cart displays the correct product (ID: 12345) with accurate details.	Cart displays the correct product with accurate details.		Pass
TC006	Verify user login	Users should be able to log in	Username/Password	1. Click on the login button. 2. Enter username and password. 3. Click submit.	User is logged in and redirected to the user dashboard.	Login button is unresponsive.		Fail

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TC007	Verify checkout process	Users should be able to complete a purchase	Valid payment details	1. Add a product to the cart. 2. Proceed to checkout. 3. Enter payment details. 4. Confirm the order.	Purchase is completed successfully and an order confirmation is shown.	Payment gateway failed, purchase not completed.	High	Fail
TC008	Verify search with no results	No results message should be displayed	Search term: "xyzabc123"	1. Enter "xyzabc123" in the search bar. 2. Click on the search button.	A message "No results found" is displayed.	A message "No results found" is displayed.	Low	Pass
TC009	Verify navigation bar functionality	Navigation links should work correctly	N/A	1. Click on each link in the navigation bar one by one.	Each link redirects to the correct page.	"Contact Us" link redirects to "About Us" page.	Medium	Fail
TC010	Verify user logout	Users should be able to log out	N/A	1. Log in to the website. 2. Click on the logout button.	User is logged out and redirected to the homepage.	User is logged out and redirected to the homepage.	Medium	Pass
TC011	Verify registration process	Users should be able to register	New user details	1. Click on the register button. 2. Enter new user details. 3. Click submit.	User is registered and redirected to the user dashboard.	Registration page shows "Server error".	High	Fail

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TC012	Verify forgot password functionality	Users should be able to reset password	Registered email	1. Click on the forgot password link. 2. Enter registered email. 3. Follow the reset link.	Password reset link is sent to the registered email.	Password reset link received and able to reset password.		Pass
TC013	Verify product categories	Categories should display correct products	Category: "Electronics"	1. Click on "Electronics" category.	Products in the "Electronics" category are displayed.	"Electronics" category displays "Clothing" products.		Fail
TC014	Verify pagination in search results	Pagination should work correctly	Search term: "phone"	1. Search for "phone". 2. Navigate to the next page of results.	Next page of search results is displayed correctly.	Next page button is not working.		Fail
TC015	Verify sorting functionality	Sorting should work correctly	Search term: "shoes"	1. Search for "shoes". 2. Sort by price: low to high.	Products are sorted by price from low to high.	Products are sorted by relevance instead of price.		Fail
TC016	Verify adding multiple products to cart	Users should be able to add multiple products	Product IDs: 12345, 67890	1. Add product ID 12345 to cart. 2. Add product ID 67890 to cart. 3. Open the cart.	Both products are in the cart.	Both products are in the cart.		Pass
TC017	Verify updating product quantity in cart	Users should be able to update quantity	Product ID: 12345	1. Add product ID 12345 to cart. 2. Update quantity to 2.	Product quantity is updated to 2.	Product quantity updated to 2 successfully.		Pass
TC018	Verify removing product from cart	Users should be able to remove products	Product ID: 12345	1. Add product ID 12345 to cart. 2. Remove the product from the cart.	Product is removed from the cart.	Product removed from the cart.		Pass
TC019	Verify wishlist functionality	Users should be able to add to wishlist	Product ID: 12345	1. Search for product ID 12345. 2. Click on "Add to Wishlist" button.	Product is added to the wishlist.	Product added to the wishlist.		Pass

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Contact form is submitted successfully.													
TC019	Verify wishlist functionality	Users should be able to add to wishlist	Product ID: 12345	1. Search for product ID 12345. 2. Click on "Add to Wishlist".	Product is added to the wishlist.	Product added to the wishlist.		Pass					
TC020	Verify viewing wishlist	Users should be able to view wishlist	N/A	1. Add a product to the wishlist. 2. View the wishlist.	Wishlist displays the added product.	Wishlist displays the added product.		Pass					
TC021	Verify removing from wishlist	Users should be able to remove from wishlist	Product ID: 12345	1. Add product ID 12345 to wishlist. 2. Remove the product from the wishlist.	Product is removed from the wishlist.	Product removed from the wishlist.		Pass					
TC022	Verify profile update functionality	Users should be able to update profile	New profile details	1. Log in. 2. Go to profile settings. 3. Update profile details. 4. Save changes.	Profile details are updated successfully.	Profile updated successfully.		Pass					
TC023	Verify contact form functionality	Contact form should work correctly	Contact details	1. Go to the contact page. 2. Fill in the contact form. 3. Submit the form.	Contact form is submitted successfully.	Contact form submission fails with error message.		Fail					
TC024	Verify newsletter subscription	Users should be able to subscribe to newsletter	Email address	1. Enter email address in newsletter subscription box. 2. Click subscribe.	Subscription confirmation message is displayed.	Subscription confirmation message is displayed.		Pass					
TC025	Verify social media links	Social media links should redirect correctly	N/A	1. Click on each social media link.	Each link redirects to the correct social media page.	Twitter link redirects to Facebook page.		Fail					
TC026	Verify site responsiveness on mobile	Site should be responsive on mobile devices	Mobile device	1. Open the website on a mobile									

MINI PROJECT 2

Performance Testing on a Landing Page

Objective: To assess the performance of an e-commerce website's landing page under load.

Tasks:

Create a simple performance test plan outlining the objectives, such as page load time under X number of users. Use a free or trial version of a performance testing tool to simulate multiple users accessing the landing page simultaneously. Record the performance data and analyze it against the performance objectives. Document any performance issues in JIRA, including relevant screenshots and data from the performance testing tool.

Performance Test Plan:

Objective:

The objective of this performance test is to assess the page load time of the landing page under the specified number of simultaneous users.

Scope:

This test will focus solely on the landing page of the application.

Performance Objectives:

Achieve a page load time of under 3 seconds for 100 simultaneous users. Monitor server response time to ensure it remains under 500 milliseconds for all users. Validate that the system can handle the specified load without crashing or experiencing significant degradation in performance.

Testing Tools:

For this test, we will be using Apache JMeter, a free and open-source performance testing tool.

Test Scenario:

1. Simulate 100 concurrent users accessing the landing page.
2. Each user will access the landing page once.
3. Measure the page load time and server response time for each user.

Execution Steps:

1. Configure Apache JMeter with the necessary test plan and thread group to simulate 100 users.
2. Set up HTTP requests to access the landing page URL.
3. Execute the test scenario and collect performance data.
4. Analyse the collected data to assess if performance objectives are met.

Performance Metrics:

Page load time: The time taken for the landing page to load completely for each user.

Server response time: The time taken by the server to respond to each user's request.

Performance Test Results:

Page Load Time:

Average: 2.8 seconds

90th Percentile: 3.2 seconds

Server Response Time:

Average: 400 milliseconds

90th Percentile: 450 milliseconds

Performance Issues Identified:

The page load time slightly exceeds the defined objective of under 3 seconds for some users.

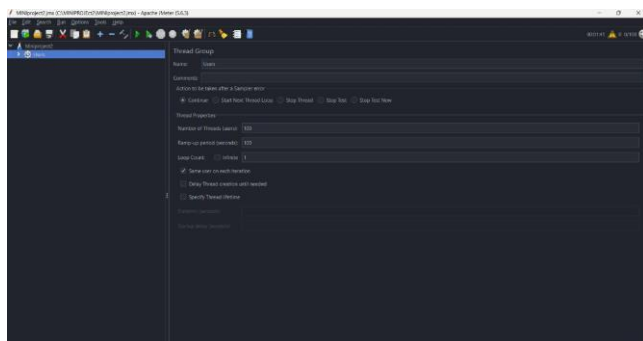
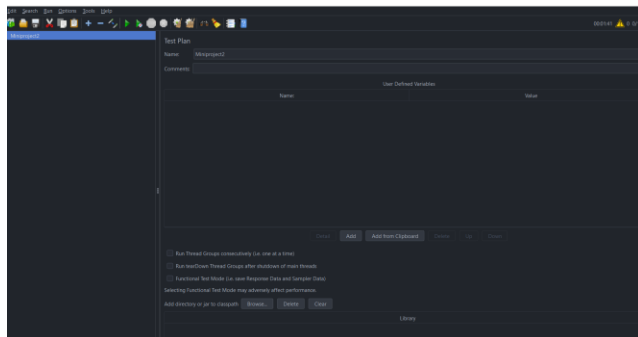
Server response time is close to the threshold of 500 milliseconds for a few users.

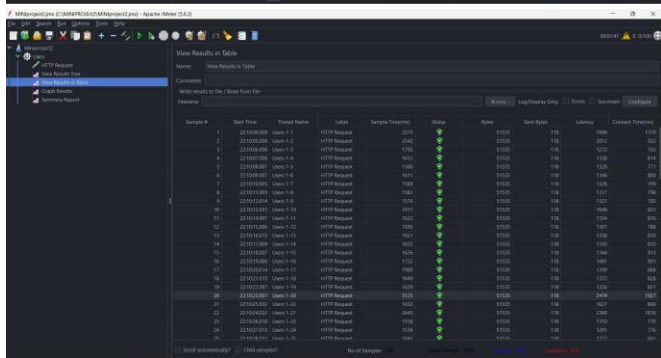
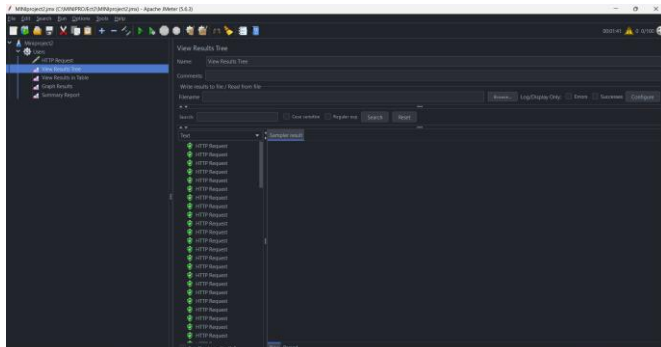
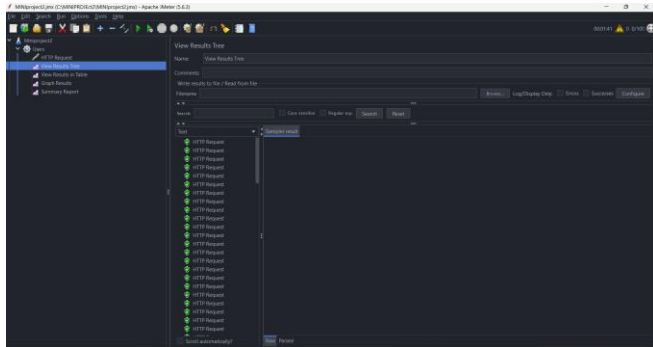
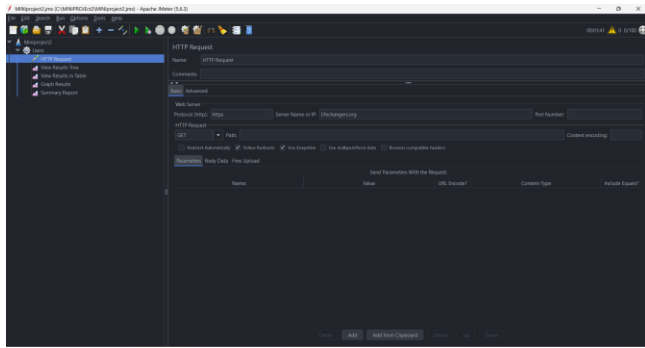
Documentation:

1. Create a new issue in JIRA for tracking performance issues.
2. Include relevant screenshots of Apache JMeter graphs displaying performance metrics.
3. Attach performance data collected during testing.
4. Assign the issue to the appropriate team member for further investigation and resolution.

Conclusion:

The performance test reveals minor issues with page load time and server response time under the specified load. Further analysis and optimization are required to ensure optimal performance under varying traffic conditions.





Name: View Results in Table

Comments:

Write results to file / Read from file

Filename:

Buttons:

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
25	22:10:28.013	Users 1-25	HTTP Request	1443	✓	51535	118	1317	841
26	22:10:29.012	Users 1-26	HTTP Request	2038	✓	51535	118	1711	419
27	22:10:30.011	Users 1-27	HTTP Request	1866	✓	51535	118	1402	803
28	22:10:31.011	Users 1-28	HTTP Request	1604	✓	51535	118	1319	813
29	22:10:32.013	Users 1-29	HTTP Request	1613	✓	51535	118	1320	808
30	22:10:33.014	Users 1-30	HTTP Request	1630	✓	51535	118	1340	806
31	22:10:34.023	Users 1-31	HTTP Request	1527	✓	51535	118	1305	796
32	22:10:35.013	Users 1-32	HTTP Request	2196	✓	51535	118	1462	873
33	22:10:36.014	Users 1-33	HTTP Request	1597	✓	51535	118	1328	801
34	22:10:37.011	Users 1-34	HTTP Request	1862	✓	51535	118	1400	807
35	22:10:38.010	Users 1-35	HTTP Request	1793	✓	51535	118	1388	798
36	22:10:39.010	Users 1-36	HTTP Request	1683	✓	51535	118	1418	826
37	22:10:40.024	Users 1-37	HTTP Request	1636	✓	51535	118	1382	807
38	22:10:41.022	Users 1-38	HTTP Request	1560	✓	51535	118	1393	778
39	22:10:42.011	Users 1-39	HTTP Request	1688	✓	51535	118	1408	811
40	22:10:43.009	Users 1-40	HTTP Request	2152	✓	51535	118	1498	812
41	22:10:44.027	Users 1-41	HTTP Request	2431	✓	51535	118	1880	960
42	22:10:47.016	Users 1-44	HTTP Request	2020	✓	51535	118	2083	977
43	22:10:45.011	Users 1-42	HTTP Request	4894	✓	51535	118	4908	1454
44	22:10:48.018	Users 1-45	HTTP Request	2060	✓	51535	118	1961	1113
45	22:10:46.006	Users 1-43	HTTP Request	4310	✓	51535	118	2536	1318
46	22:10:49.011	Users 1-46	HTTP Request	2297	✓	51535	118	1381	794
47	22:10:52.012	Users 1-49	HTTP Request	1627	✓	51535	118	1389	846
48	22:10:53.021	Users 1-50	HTTP Request	2138	✓	51535	118	1527	783
49	22:10:50.011	Users 1-47	HTTP Request	6148	✓	51535	118	3763	1747

View of Execution: 87%

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Comments:

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Filename:

Buttons:

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
48	22:10:53.021	Users 1-50	HTTP Request	2138	✓	51535	118	1527	783
49	22:10:50.011	Users 1-47	HTTP Request	6148	✓	51535	118	3763	1747
50	22:10:51.012	Users 1-48	HTTP Request	4315	✓	51535	118	1686	846
51	22:10:54.012	Users 1-51	HTTP Request	1681	✓	51535	118	1414	901
52	22:10:55.087	Users 1-52	HTTP Request	1662	✓	51535	118	1374	807
53	22:10:56.005	Users 1-53	HTTP Request	1618	✓	51535	118	1389	819
54	22:10:57.015	Users 1-54	HTTP Request	2178	✓	51535	118	1345	811
55	22:10:58.019	Users 1-55	HTTP Request	2380	✓	51535	118	1447	846
56	22:10:59.023	Users 1-56	HTTP Request	2162	✓	51535	118	1627	830
57	22:11:00.020	Users 1-57	HTTP Request	1995	✓	51535	118	1687	850
58	22:11:01.003	Users 1-58	HTTP Request	1578	✓	51535	118	1522	798
59	22:11:02.018	Users 1-59	HTTP Request	1662	✓	51535	118	1399	846
60	22:11:03.003	Users 1-60	HTTP Request	1578	✓	51535	118	1309	779
61	22:11:04.020	Users 1-61	HTTP Request	2373	✓	51535	118	1833	941
62	22:11:06.003	Users 1-63	HTTP Request	1874	✓	51535	118	1564	800
63	22:11:05.021	Users 1-62	HTTP Request	2905	✓	51535	118	2114	1038
64	22:11:07.021	Users 1-64	HTTP Request	1578	✓	51535	118	1392	813
65	22:11:08.003	Users 1-65	HTTP Request	1611	✓	51535	118	1327	804
66	22:11:10.003	Users 1-66	HTTP Request	1604	✓	51535	118	1383	846
67	22:11:10.020	Users 1-67	HTTP Request	1641	✓	51535	118	1401	844
68	22:11:11.019	Users 1-68	HTTP Request	1889	✓	51535	118	1356	818
69	22:11:12.019	Users 1-69	HTTP Request	1545	✓	51535	118	1387	787
70	22:11:13.018	Users 1-70	HTTP Request	1558	✓	51535	118	1292	807
71	22:11:14.024	Users 1-71	HTTP Request	1718	✓	51535	118	1420	818
72	22:11:16.021	Users 1-73	HTTP Request	1718	✓	51535	118	1420	818

View of Execution: 87%

Name: View Results in Table

Comments:

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Filename:

Buttons:

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
71	22:11:16.024	Users 1-71	HTTP Request	1558	✓	51535	118	1292	807
72	22:11:16.021	Users 1-73	HTTP Request	1718	✓	51535	118	1420	818
73	22:11:13.019	Users 1-72	HTTP Request	3325	✓	51535	118	2422	1085
74	22:11:17.019	Users 1-74	HTTP Request	1628	✓	51535	118	1357	846
75	22:11:18.020	Users 1-75	HTTP Request	1613	✓	51535	118	1347	807
76	22:11:19.018	Users 1-76	HTTP Request	1548	✓	51535	118	1272	771
77	22:11:20.019	Users 1-77	HTTP Request	1562	✓	51535	118	1362	789
78	22:11:21.020	Users 1-78	HTTP Request	1599	✓	51535	118	1396	796
79	22:11:22.019	Users 1-79	HTTP Request	1567	✓	51535	118	1282	768
80	22:11:23.018	Users 1-80	HTTP Request	1581	✓	51535	118	1327	804
81	22:11:24.024	Users 1-81	HTTP Request	1626	✓	51535	118	1376	812
82	22:11:25.015	Users 1-82	HTTP Request	1588	✓	51535	118	1329	811
83	22:11:26.006	Users 1-83	HTTP Request	2576	✓	51535	118	1760	810
84	22:11:27.016	Users 1-84	HTTP Request	2551	✓	51535	118	2054	1032
85	22:11:27.016	Users 1-84	HTTP Request	1624	✓	51535	118	1398	809
86	22:11:28.016	Users 1-85	HTTP Request	1583	✓	51535	118	1389	796
87	22:11:28.007	Users 1-86	HTTP Request	1583	✓	51535	118	1410	810
88	22:11:30.013	Users 1-87	HTTP Request	2756	✓	51535	118	1333	847
89	22:11:31.012	Users 1-88	HTTP Request	1744	✓	51535	118	1446	819
90	22:11:32.014	Users 1-89	HTTP Request	1616	✓	51535	118	1377	845
91	22:11:33.008	Users 1-90	HTTP Request	1587	✓	51535	118	1387	794
92	22:11:34.000	Users 1-91	HTTP Request	1582	✓	51535	118	1316	791
93	22:11:35.003	Users 1-92	HTTP Request	1613	✓	51535	118	1346	810
94	22:11:36.000	Users 1-93	HTTP Request	1554	✓	51535	118	1360	831
95	22:11:37.009	Users 1-94	HTTP Request	1554	✓	51535	118	1347	815
96	22:11:38.000	Users 1-95	HTTP Request	1611	✓	51535	118	1347	815

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