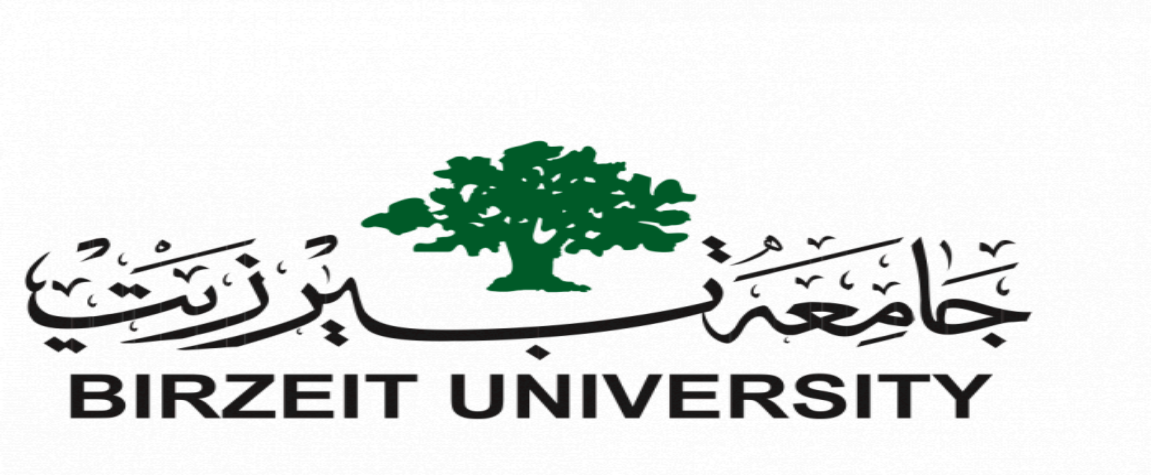

Comp438

SOFTWARE TESTING AND QUALITY ASSURANCE

QA Project

Software testing for a Real-world Software Application

Group members:

Enas Hamayel	**1210632**
Muna Abufalah	**1210628**
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◆ ***Selection of Application Under Test***

We choose Facebook software application as the test subject for several reasons:

- Multi-functionality: Facebook has a wide range of features such as personal account management(Create accounts, login to account,logout, ….etc), instant messaging(Instant messaging between two person or a group of people), multimedia sharing (posts like: photos ,videos , and writings), live streaming, and groups.

- Popularity of the app: Being one of the most widely used apps globally, testing its functionality ensures that multiple scenarios of interest are presented.

- Testing challenges: Due to the mix of functional and non-functional features, Facebook provides a wide range for comprehensive analysis and testing.

◆ ***Requirements Analysis***

After we Analyze the the facebook software app To identify the test cases

- Functional requirements :
  Log in, log out and create an account.
  Search for people, add friends and accept friend requests.
  Create, like and share posts.
  Message using the built-in Messenger.
  Manage personal settings and protect privacy.

- Non-functional requirements:
  Performance: Response time should not exceed 3 seconds for most operations.
  Security: Protect user data using strong encryption.
  Availability: The application should operate 24 hours a day with minimal downtime.
  Ease of use: The user interface should be clear and easy to navigate.

◆ *Comprehensive Test Plan*

❖ *Introduction*

The objective of this test plan is to ensure the quality, reliability, and performance of key functionalities in the Facebook application, including messaging, login, search, and post creation.

❖ *Scope*

Inclusions :

- Functional Testing: Sending messages, logging in, searching, creating posts.
- Performance Testing: Evaluating the application's performance under high load.

Exclusions:

- Non-core features such as Marketplace, Stories, Non-core features such as Marketplace, Stories,nor testing of Facebook mobile application.

❖ *Test Objectives*

1. **Functional Testing Objectives:**
   - Validate login and logout processes with correct and incorrect credentials.
   - Verify the ability to send and receive messages, including handling of attachments.
   - Ensure the search function returns relevant results based on keywords.
   - Confirm the ability to create, edit, and delete posts, and validate the handling of multimedia content.

2. **Performance Testing Objectives:**
   - Ensure the application can support up to 10,000 concurrent users with acceptable response times (less than 3 seconds).
3. **Security Testing Objectives:**
   - ensure data protection and guarantees the secure handling of sensitive user data.
4. **Usability Testing Objectives:**
   - Assess the user interface for accessibility and ease of navigation.

❖ *Test Strategy*

- We plan to use a combination of manual and automated testing to thoroughly and efficiently test Facebook. We plan to use black box testing techniques for functionality testing and Jmeter for performance testing.

❖ *Test Schedule*

- Requirements analysis and test plan creation. Start [2012-2024] , End [25-12-2024]
- Test case development and test environment setup. Start [26-12-2024] , End [1-1-2025]
- Automation test script development and execution Start [2-1-2025] , End [5-1-2025]
- Performance testing and analysis. Start [6-1-1015] , end [9-1-2025]
- Final report preparation and presentation. Start [10-1-2025] , End [12-1-2025]

❖ *Test Resources*

1. **Personnel**: Manar ,Muna ,Enas , Afnan.
2. **Tools** : Selenium for automated testing, JMeter for performance testing , Jira for Explain the test cases
3. **Hardware/Software** : Personal computers ,and access to the Facebook staging environment

❖ *Test Deliverables*

1. Test Plan Document
2. Test Cases Document
3. Automation Scripts
4. Performance Testing Report
5. Final Test Report

❖ *Risks and assumptions*

Data Assumption

- test data (user profiles, posts, comments, media files) will be available for all testing scenarios. Real-time data interactions and latency can be simulated effectively.

Resources Assumption:

- tools will be available throughout the testing process.All required test devices (mobile phones, tablets, PCs) covering different operating systems and browsers will be accessible.

Risks:

- The inability to repeat testing may miss performance Gaps.
- Test Data Insufficiency: Limited test data may lead to incomplete test coverage.
- Privacy Risks: Testing with real user data may lead to accidental data breaches or violations of privacy laws.
- Data Leak Risks: Improper handling of sensitive data during testing could result in leaks.

❖ *Dependencies*

- All high-priority and critical defects identified during the testing process must be resolved and verified.
- Test Coverage: 100% execution of all planned test cases. All critical user scenarios (e.g., login, posting, messaging, notifications) must pass successfully.
- Regression Testing: A final regression testing cycle must be completed with no critical or high-severity issues.
- Page load time: Less than 2 seconds for key pages (e.g., newsfeed, profile, groups).
- Latency: Acceptable response time for real-time interactions (e.g., messages, notifications).
- Cross-platform Compatibility: Application must work seamlessly across all supported devices, operating systems, and browsers.

❖ *Exit Criteria*

The Facebook app must not fail any testing of the core functionalities, and produce the expected testing results reliably.

❖ *Approvals*

- A formal review meeting should be held where all group members discuss the test plan and provide feedback.
- After revisions (if any), each member provides written or Oral approval.
- Approvals should be documented in a shared repository for future reference.

❖ *Appendices*

- **References**

  To learn about tools : youtube

  Functional Testing: Selenium.

  Performance Testing: JMeter.

  Device matrix: Computer devices (php , asus), browsers (Chrome, Firefox).

- **Test Data**

  User Profiles:Test user accounts

  Media Files: images and voice to test upload.

  Simulated Connections: Friend lists, and follower relationships for feature validation.

◆ *Test Cases*

Link for jira ⇒ Test Case in Jira

❖ *Login*

Verify login functionality with valid credentials

[HI-5] Verify login functionality with valid credentials Created: 01/Jan/25 Updated: 12/Jan/25 Due: 05/Jan/25

Status:	Manar
Project:	facebook UT
Components:	None
Affects versions:	None
Fix versions:	None

Type:	Task	**Priority:**	Highest
Reporter:	Manar Moustafa	**Assignee:**	Manar Moustafa
Resolution:	Unresolved	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Rank:	0ji0001j:		

Comments

Comment by Manar Moustafa [11/Jan/25]

Test Case

Test Case ID	1
Description	Verify login functionality with valid credentials
Precondition	User must have a registered Facebook account
Test Data	Phone Number{{: 0595716325}} Password: `correctpass`
Steps to Execute	1. Open the Facebook app. 2. Navigate to the login screen. 3. Enter the phone number or email: `0595716325` 4. Enter the password: `correctpass`. 5. Tap on the "Login" button. 6. Observe the result.
Expected Result	The user is successfully logged in and directed to their Facebook home screen.
Actual Result	Log in successfully, and go to the main screen of his Facebook account.
Pass/Fail	Pass

Analysis the Steps to Execute

Step. No	Steps to Execute	Expected Result	Actual Result	Pass/Fail
1	Open the Facebook app.	Facebook app is opened without any problem.	Facebook app opened successfully.	Pass
2	Navigate to the Facebook login page.	Login page is displayed correctly.	Login page loaded successfully.	Pass
3	Enter `0595716325` or a phone number in the email/phone field.	Email/Phone field accepts the valid input.	Input is accepted in the email/phone field.	Pass
4	Enter `correctpass` in the password field.	Password field accepts the input.	Input is accepted in the password field.	Pass
5	Click the "Login" button.	System validates the email/phone and password combination.	System validates credentials.	Pass
6	Observe the result.	User is logged in successfully and redirected to the home page.	User logged in successfully and redirected to the home page.	Pass

Verify login functionality with invalid credentials(incorrect password)

[HI-6] Verify login functionality with invalid credentials(incorrect password) Created: 01/Jan/25 Updated: 12/Jan/25

Status:	Manar
Project:	facebook UT
Components:	None
Affects versions:	None
Fix versions:	None

Type:	Task	**Priority:**	Highest
Reporter:	Manar Moustafa	**Assignee:**	Manar Moustafa
Resolution:	Unresolved	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Rank:	0ji0001r:		

Comments

Comment by Manar Moustafa [12/Jan/25]

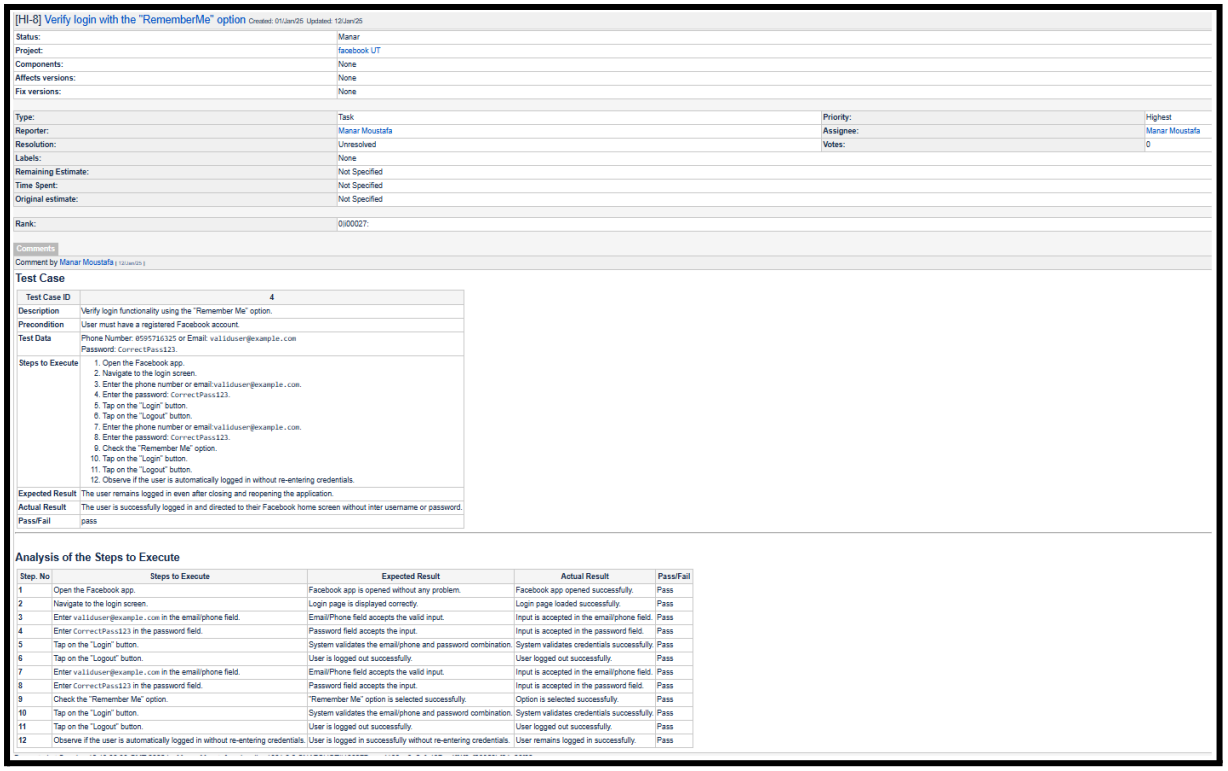
Test Case

Test Case ID	2
Description	Verify login functionality with invalid credentials (incorrect password).
Precondition	User must have a registered Facebook account.
Test Data	Phone Number: `0595716325` Password: `WrongPass123`
Steps to Execute	1. Open the Facebook app. 2. Navigate to the login screen. 3. Enter the phone number or email: `0595716325`. 4. Enter the password: `WrongPass123`. 5. Tap on the "Login" button. 6. Observe the result.
Expected Result	An error message is displayed indicating invalid credentials.
Actual Result	Error message displayed: "Incorrect password. Please try again"
Pass/Fail	Pass

Analysis the Steps to Execute

Step. No	Steps to Execute	Expected Result	Actual Result	Pass/Fail
1	Open the Facebook app.	Facebook app is opened without any problem.	Facebook app opened successfully.	Pass
2	Navigate to the Facebook login page.	Login page is displayed correctly.	Login page loaded successfully.	Pass
3	Enter `0595716325` or a email in the email/phone field.	Email/Phone field accepts the valid input.	Input is accepted in the email/phone field.	Pass
4	Enter `WrongPass123` in the password field.	Password field accepts the input.	Input is accepted in the password field.	Pass
5	Click the "Login" button.	System validates the email/phone and password combination.	System validates credentials and detects invalid password.	Pass
6	Observe the result.	Error message is displayed: "Incorrect password. Please try again."	Error message displayed correctly.	Pass

Verify login with the "RememberMe" option



[HI-8] Verify login with the "RememberMe" option Created: 01/Jan/25 Updated: 12/Jan/25

Status:	Manar		
Project:	facebook UT		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Type:	Task	Priority:	Highest
Reporter:	Manar Moustafa	Assignee:	Manar Moustafa
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Rank:	0|i00027:		

Comments

Comment by Manar Moustafa [12/Jan/25]

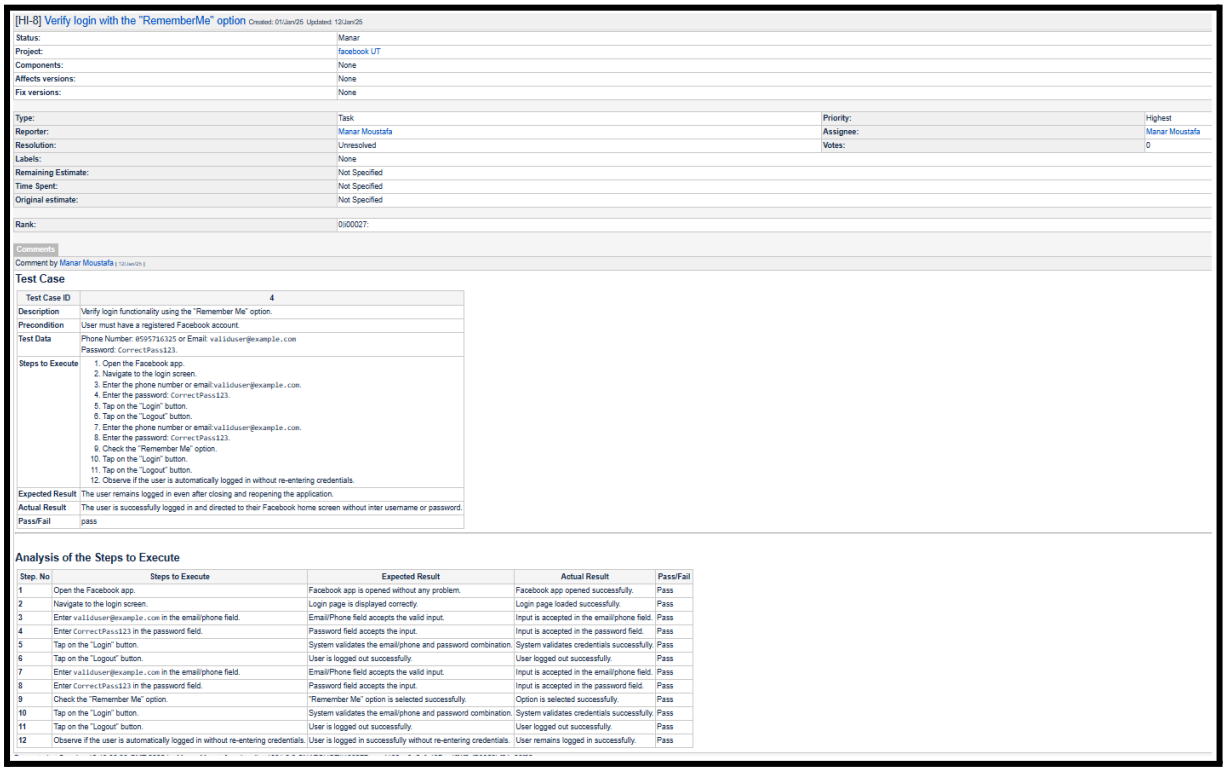
Test Case

Test Case ID	4
Description	Verify login functionality using the "Remember Me" option.
Precondition	User must have a registered Facebook account.
Test Data	Phone Number: 0595716325 or Email: validuser@example.com Password: CorrectPass123.
Steps to Execute	1. Open the Facebook app. 2. Navigate to the login screen. 3. Enter the phone number or email:validuser@example.com. 4. Enter the password: CorrectPass123. 5. Tap on the "Login" button. 6. Tap on the "Logout" button. 7. Enter the phone number or email:validuser@example.com. 8. Enter the password: CorrectPass123. 9. Check the "Remember Me" option. 10. Tap on the "Login" button. 11. Tap on the "Logout" button. 12. Observe if the user is automatically logged in without re-entering credentials.
Expected Result	The user remains logged in even after closing and reopening the application.
Actual Result	The user is successfully logged in and directed to their Facebook home screen without inter username or password.
Pass/Fail	pass

Analysis of the Steps to Execute

Step. No	Steps to Execute	Expected Result	Actual Result	Pass/Fail
1	Open the Facebook app.	Facebook app is opened without any problem.	Facebook app opened successfully.	Pass
2	Navigate to the login screen.	Login page is displayed correctly.	Login page loaded successfully.	Pass
3	Enter validuser@example.com in the email/phone field.	Email/Phone field accepts the valid input.	Input is accepted in the email/phone field.	Pass
4	Enter CorrectPass123 in the password field.	Password field accepts the input.	Input is accepted in the password field.	Pass
5	Tap on the "Login" button.	System validates the email/phone and password combination.	System validates credentials successfully	Pass
6	Tap on the "Logout" button.	User is logged out successfully.	User logged out successfully.	Pass
7	Enter validuser@example.com in the email/phone field.	Email/Phone field accepts the valid input.	Input is accepted in the email/phone field.	Pass
8	Enter CorrectPass123 in the password field.	Password field accepts the input.	Input is accepted in the password field.	Pass
9	Check the "Remember Me" option.	"Remember Me" option is selected successfully.	Option is selected successfully.	Pass
10	Tap on the "Login" button.	System validates the email/phone and password combination.	System validates credentials successfully	Pass
11	Tap on the "Logout" button.	User is logged out successfully.	User logged out successfully.	Pass
12	Observe if the user is automatically logged in without re-entering credentials.	User is logged in successfully without re-entering credentials.	User remains logged in successfully.	Pass

Verify login with the "Forgot Password" option



[HI-8] Verify login with the "RememberMe" option Created: 01/Jan/25 Updated: 12/Jan/25

Status:	Manar		
Project:	facebook UT		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Type:	Task	Priority:	Highest
Reporter:	Manar Moustafa	Assignee:	Manar Moustafa
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Rank:	0|i00027:		

Comments

Comment by Manar Moustafa [12/Jan/25]

Test Case

Test Case ID	4
Description	Verify login functionality using the "Remember Me" option.
Precondition	User must have a registered Facebook account.
Test Data	Phone Number: 0595716325 or Email: validuser@example.com Password: CorrectPass123.
Steps to Execute	1. Open the Facebook app. 2. Navigate to the login screen. 3. Enter the phone number or email:validuser@example.com. 4. Enter the password: CorrectPass123. 5. Tap on the "Login" button. 6. Tap on the "Logout" button. 7. Enter the phone number or email:validuser@example.com. 8. Enter the password: CorrectPass123. 9. Check the "Remember Me" option. 10. Tap on the "Login" button. 11. Tap on the "Logout" button. 12. Observe if the user is automatically logged in without re-entering credentials.
Expected Result	The user remains logged in even after closing and reopening the application.
Actual Result	The user is successfully logged in and directed to their Facebook home screen without inter username or password.
Pass/Fail	pass

Analysis of the Steps to Execute

Step. No	Steps to Execute	Expected Result	Actual Result	Pass/Fail
1	Open the Facebook app.	Facebook app is opened without any problem.	Facebook app opened successfully.	Pass
2	Navigate to the login screen.	Login page is displayed correctly.	Login page loaded successfully.	Pass
3	Enter validuser@example.com in the email/phone field.	Email/Phone field accepts the valid input.	Input is accepted in the email/phone field.	Pass
4	Enter CorrectPass123 in the password field.	Password field accepts the input.	Input is accepted in the password field.	Pass
5	Tap on the "Login" button.	System validates the email/phone and password combination.	System validates credentials successfully	Pass
6	Tap on the "Logout" button.	User is logged out successfully.	User logged out successfully.	Pass
7	Enter validuser@example.com in the email/phone field.	Email/Phone field accepts the valid input.	Input is accepted in the email/phone field.	Pass
8	Enter CorrectPass123 in the password field.	Password field accepts the input.	Input is accepted in the password field.	Pass
9	Check the "Remember Me" option.	"Remember Me" option is selected successfully.	Option is selected successfully.	Pass
10	Tap on the "Login" button.	System validates the email/phone and password combination.	System validates credentials successfully	Pass
11	Tap on the "Logout" button.	User is logged out successfully.	User logged out successfully.	Pass
12	Observe if the user is automatically logged in without re-entering credentials.	User is logged in successfully without re-entering credentials.	User remains logged in successfully.	Pass

❖ *Search*

Verify search functionality with valid text

[HI-1] Verify search functionality with valid text Created: 31/Dec/24 Updated: 12/Jan/25

Status:	Enas		
Project:	facebook UT		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Type:	Task	**Priority:**	High
Reporter:	Enas Hamayel	**Assignee:**	Enas Hamayel
Resolution:	Unresolved	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Rank:	0ji0000n:		

Description

Test Case

Test ID	TC1
Description	Verify search functionality with valid text
Precondition	User must have a Facebook Account
Test Data	Search text field : Enas
Steps to Execute	1. Open the Facebook page 2. Click on the search text field 3. enter the text : Enas 4. Click on the search Button
Expected Result	The user is successfully searched in and directed to the Enas profile page
Actual Result	The user is successfully searched in and directed to the Enas profile page
Pass/Fail	pass

Explain the steps

Step No.	Steps to Execute	Expected Result	Actual Result	Pass/Fail
1	Navigates to the Facebook Home page	Facebook Home page is displayed correctly	Facebook Home page loaded successfully	Pass
2	Click on the search text field	The friend search list is Showen	The friend search list loaded successfully	Pass
3	Enter Enas in the search field	Search field accepts the input text	Input is accepted in the search field	Pass
4	Click the 'Enter' button	System validates the text combination	System validates cadential	Pass
5	Observed the result	The research process has begun	Enas profile page appeared	Pass

Verify search functionality with invalid text(by Emoji)

[HI-4] Verify search functionality with invalid text(by Emoji) Created: 01/Jan/25 Updated: 12/Jan/25

Status:	Enas		
Project:	facebook UT		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Type:	Task	**Priority:**	Low
Reporter:	Enas Hamayel	**Assignee:**	Enas Hamayel
Resolution:	Unresolved	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Rank:	0ji0001b:		

Description

Test Case 2

Test ID	TC2
Description	Verify search functionality with invalid text
Precondition	User must have a Facebook Account
Test Data	Search text field : 😍
Steps to Execute	1. Open the Facebook page 2. Click on the search text field 3. enter the text : 😍 4. Click on the search Button
Expected Result	The user is failed searched in and No results appeared
Actual Result	The user is Failed searched in and search is not available
Pass/Fail	Fail

Explain the steps

Step No.	Steps to Execute	Expected Result	Actual Result	Pass/Fail
1	Navigates to the Facebook Home page	Facebook Home page is displayed correctly	Facebook Home page loaded successfully	Pass
2	Click on the search text field	The friend search list is Showen	The friend search list loaded successfully	Pass
3	Enter 😍 in the search field	Search field accepts the input text	Input is not accepted in the search field	fail
4	Click the 'Enter' button	System validates the text combination	System not validates cadential	fail
5	Observed the result	The research process has begun	The search results did not appear	fail

Verify search functionality with invalid Account(by Blocked Account)

[HI-9] Verify search functionality with invalid Account(by Blocked Account) Created: 01/Jan/25 Updated: 12/Jan/25

Status:	Enas		
Project:	facebook UT		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Type:	Task	**Priority:**	High
Reporter:	Enas Hamayel	**Assignee:**	Enas Hamayel
Resolution:	Unresolved	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Rank:	0ji0002f:		

Description

Test Case 3

Test ID	TC3
Description	Verify search functionality with invalid Account
Precondition	User must have a Facebook Account
Test Data	Search text field : Huda mosa "Account Blocked"
Steps to Execute	1. Open the Facebook page 2. Click on the search text field 3. enter the text : Huda mosa 4. Click on the search Button
Expected Result	The user is failed searched in and many results appeared But the account i Searched it wasn't showen
Actual Result	The user is Failed searched in and search is not available
Pass/Fail	Fail

Explain the Steps

Step No.	Steps to Execute	Expected Result	Actual Result	Pass/Fail
1	Navigates to the Facebook Home page	Facebook Home page is displayed correctly	Facebook Home page loaded successfully	Pass
2	Click on the search text field	The friend search list is Showen	The friend search list loaded successfully	Pass
3	Enter "Huda mosa" in the search field	Search field accepts the input text	Input is accepted in the search field	Pass
4	Click the 'Enter' button	System validates the text combination	System not validates cadential	Pass
5	Observed the result	The research process has begun	The search results "with actual account " did not appear	fail

Verify search functionality with valid text (By number)

[HI-10] Verify search functionality with valid text (By number) Created: 01/Jan/25 Updated: 12/Jan/25

Status:	Enas		
Project:	facebook UT		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Type:	Task	**Priority:**	High
Reporter:	Enas Hamayel	**Assignee:**	Enas Hamayel
Resolution:	Unresolved	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Rank:	0ji0002n:		

Description

Test Case 4

Test ID	TC4
Description	Verify search functionality with valid Value
Precondition	User must have a Facebook Account
Test Data	Search text field : 122
Steps to Execute	1. Open the Facebook page 2. Click on the search text field 3. enter the text : 122 4. Click on the search Button
Expected Result	The user is successfully searched in and directed to show pages name with value"122"
Actual Result	The user is successfully searched in and directed to show pages name with value"122"
Pass/Fail	pass

Explain the Steps

Step No.	Steps to Execute	Expected Result	Actual Result	Pass/Fail
1	Navigates to the Facebook Home page	Facebook Home page is displayed correctly	Facebook Home page loaded successfully	Pass
2	Click on the search text field	The friend search list is Showen	The friend search list loaded successfully	Pass
3	Enter "122" in the search field	Search field accepts the input text	Input is accepted in the search field	Pass
4	Click the 'Enter' button	System validates the text combination	System validates cadential	Pass
5	Observed the result	The research process has begun	Pages with value "122" was appeared	Pass

❖ *Send message*

Verify send message functionality with valid text message

[HI-11] Verify send message functionality with valid text message Created: 09/Jan/25 Updated: 12/Jan/25 Resolved: 09/Jan/25

Status:	Muna		
Project:	facebook UT		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Type:	Task	**Priority:**	High
Reporter:	abufalahmuna6	**Assignee:**	abufalahmuna6
Resolution:	Done	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Rank:	0|i0002v:		

Description

Test Case

Test ID	TC1
Description	Verify send message functionality with valid text message
Precondition	User must have a register account
Test Data	message: "Hello, How are you ?"
Step to Execute	1. Open Facebook page 2. Navigate to Messenger 3. Select a contact to message 4. Type test message : "Hollow ,How are you?" 5. Click on the Send button
Expected Result	The text message is send successfully and appears in the chat window
Actual Result	The text message is send successfully and appears in the chat window
Pass/Fail	Pass

Explain the steps

Step NO.	Step to Execute	Expected Result	Actual Result	Pass\Fail
1	Navigate to the Facebook Home Page	Facebook Home page load successfully	Facebook Home page load successfully	Pass
2	Navigate to the Messenger	Messenger interface load successfully	Messenger interface load successfully	Pass
3	Select a contact to message	Contact's chat window open	chat window opened successfully	Pass
4	Type the text message : " Hello , How are you ?"	Text is successfully entered to the input field	Text entered successfully	Pass
5	Click on the Send button	Message is sent and appears in the chat window	Message send and display successfully	Pass

Verify send message functionality with valid image message

[HI-12] Verify send message functionality with valid image message Created: 09/Jan/25 Updated: 12/Jan/25 Resolved: 09/Jan/25

Status:	Muna		
Project:	facebook UT		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Type:	Task	**Priority:**	High
Reporter:	abufalahmuna6	**Assignee:**	abufalahmuna6
Resolution:	Done	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Rank:	0|i00033:		

Description

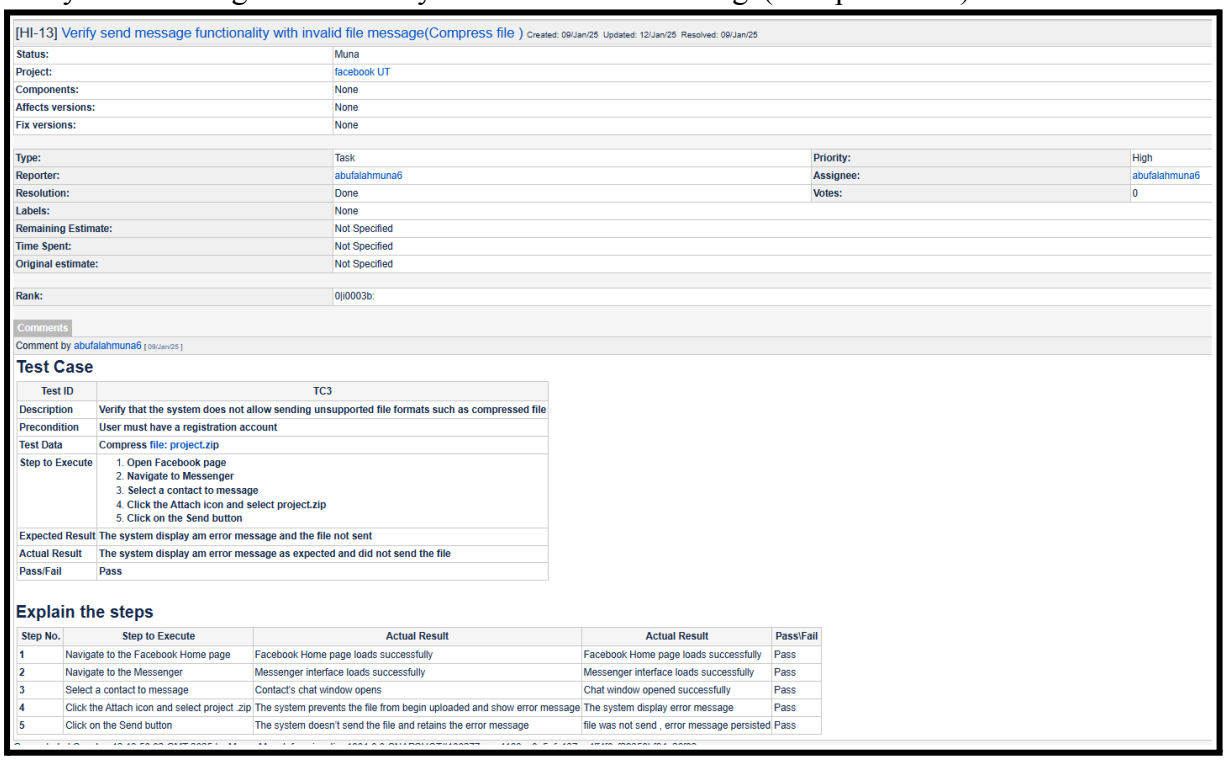
Test Case

Test ID	TC2
Description	Verify send message functionality with valid image message
Precondition	User must have a registration account
Test Data	Image file : cat.jpg
Step to Execute	1. Open Facebook page 2. Navigate to Messenger 3. Select a contact to message 4. Click the Attach icon and select cat.jpg 5. Click on the Send button
Expected Result	The image message is send successfully and appears in the chat window
Actual Result	The image message is send successfully and appears in the chat window
Pass/Fail	Pass

Explain the steps

Step NO.	Step to Execute	Expected Result	Actual Result	Pass\Fail
1	Navigate to the Facebook Home page	Facebook Home page loads successfully	Facebook Home page loads successfully	Pass
2	Navigate to the Messenger	Messenger interface loads successfully	Messenger interface loads successfully	Pass
3	Select a contact to message	Contact's chat window opens	Chat window opened successfully	Pass
4	Click the Attach icon and select cat.jpg	The select image appears in the input field for review	The select image appears successfully in the input field	Pass
5	Click on the Send button	The image message is send and appears in the chat window	Image message send and display successfully	Pass

Verify send message functionality with invalid file message(Compress file)



[HI-13] Verify send message functionality with invalid file message(Compress file) Created: 09/Jan/25 Updated: 12/Jan/25 Resolved: 09/Jan/25

Status:	Muna		
Project:	facebook UT		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Type:	Task	**Priority:**	High
Reporter:	abufalahmuna6	**Assignee:**	abufalahmuna6
Resolution:	Done	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Rank:	0|i0003b:		

Comments

Comment by abufalahmuna6 [09/Jan/25]

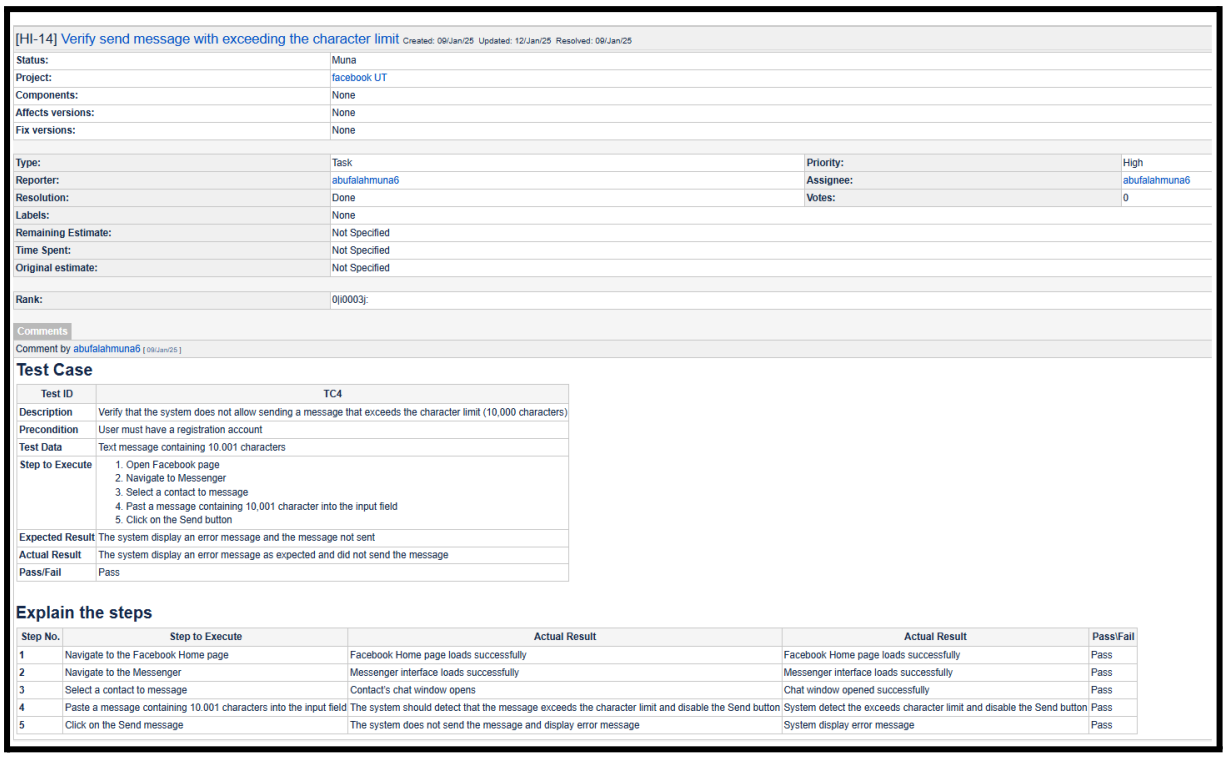
Test Case

Test ID	TC3
Description	**Verify that the system does not allow sending unsupported file formats such as compressed file**
Precondition	**User must have a registration account**
Test Data	**Compress file: project.zip**
Step to Execute	**1. Open Facebook page 2. Navigate to Messenger 3. Select a contact to message 4. Click the Attach icon and select project.zip 5. Click on the Send button**
Expected Result	**The system display am error message and the file not sent**
Actual Result	**The system display am error message as expected and did not send the file**
Pass/Fail	**Pass**

Explain the steps

Step No.	Step to Execute	Actual Result	Actual Result	Pass\Fail
1	Navigate to the Facebook Home page	Facebook Home page loads successfully	Facebook Home page loads successfully	Pass
2	Navigate to the Messenger	Messenger interface loads successfully	Messenger interface loads successfully	Pass
3	Select a contact to message	Contact's chat window opens	Chat window opened successfully	Pass
4	Click the Attach icon and select project .zip	The system prevents the file from begin uploaded and show error message	The system display error message	Pass
5	Click on the Send button	The system doesn't send the file and retains the error message	file was not send , error message persisted	Pass

Verify send message with exceeding the character limit



[HI-14] Verify send message with exceeding the character limit Created: 09/Jan/25 Updated: 12/Jan/25 Resolved: 09/Jan/25

Status:	Muna		
Project:	facebook UT		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Type:	Task	**Priority:**	High
Reporter:	abufalahmuna6	**Assignee:**	abufalahmuna6
Resolution:	Done	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Rank:	0|i0003j:		

Comments

Comment by abufalahmuna6 [09/Jan/25]

Test Case

Test ID	TC4
Description	Verify that the system does not allow sending a message that exceeds the character limit (10,000 characters)
Precondition	User must have a registration account
Test Data	Text message containing 10.001 characters
Step to Execute	1. Open Facebook page 2. Navigate to Messenger 3. Select a contact to message 4. Past a message containing 10,001 character into the input field 5. Click on the Send button
Expected Result	The system display an error message and the message not sent
Actual Result	The system display an error message as expected and did not send the message
Pass/Fail	Pass

Explain the steps

Step No.	Step to Execute	Actual Result	Actual Result	Pass\Fail
1	Navigate to the Facebook Home page	Facebook Home page loads successfully	Facebook Home page loads successfully	Pass
2	Navigate to the Messenger	Messenger interface loads successfully	Messenger interface loads successfully	Pass
3	Select a contact to message	Contact's chat window opens	Chat window opened successfully	Pass
4	Paste a message containing 10.001 characters into the input field	The system should detect that the message exceeds the character limit and disable the Send button	System detect the exceeds character limit and disable the Send button	Pass
5	Click on the Send message	The system does not send the message and display error message	System display error message	Pass

❖ *Posts*

Valid Test Case Assign like To posts and share to WhatsApp

[HI-16] valid Test Case Assign like To posts and share to WhatsApp Created: 11/Jan/25 Updated: 13/Jan/25

Status:	Afnan		
Project:	facebook UT		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Type:	Task	**Priority:**	Medium
Reporter:	Afnan kharosha	**Assignee:**	Afnan kharosha
Resolution:	Unresolved	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Rank:	0i0003z:		

Description

Test ID	TC1
Description	Assign Like to your favorite post and shared with best friend
Precondition	User must login to his account
Test Data	click on like & click to share to open WhatsApp
Steps to Execute	1. Open the Facebook page 2. verify if user log in account 3. brows in home page 4. click like 5. Click on the share button 6. Click on use WhatsApp web and wait to load chats (few seconds) 7. Click to continue to chat 8. select your friend from check box 9. click to arrow to send 10. close
Expected Result	The user is successfully put liked and shared post to your friend
Actual Result	The user is success to put liked and shared post to your friend
Pass/Fail	pass

Step No.	Steps to Execute	Expected Result	Actual Result	Pass/Fail
1	open facebook page	Facebook Home page is displayed correctly	Facebook Home page loaded successfully	Pass
2	verify	should verify if user log in correctly	should verify if user log in correctly	pass
3	Navigates to the Facebook Home page	see post in facebook	post is appeard to user successfully	Pass
4	click on like	user put like to any post liked successfully	like is assign and appeared on screen	Pass
5	Click to icon of share under post on right side	open whatsapp web if user have account in whatsapp	open whatsapp web page successfully	Pass
6	click to use web whatsapp or application of whatsapp as user need	if user have account if select web go to web page if select application open application and go to load chats	user select WhatsApp web and chats loaded successfully	Pass
7	click in continue to chat button to go to open page contains friends	click in continue to chat button to go to open page contains friends correctly	click in continue to chat button to go to open page contains friends successfully	pass
8	click on chat need to send post	Select friend name by check box in right side on page and click to go to chat	Select friend name by check box in right side on page and click to go to chat completed successfully	pass
9	when chat opened the link of post be in chat and user only click to send arrow	click to send arrow to send successfully	click to send arrow to send successfully	pass
10	the post delivered and close page	the post delivered and close page successfully	the post delivered and close page successfully	pass

Valid Test updating your profile

[HI-17] valid Test updating your profile Created: 11/Jan/25 Updated: 13/Jan/25

Status:	Afnan		
Project:	facebook UT		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Type:	Task	**Priority:**	Medium
Reporter:	Afnan kharosha	**Assignee:**	Afnan kharosha
Resolution:	Unresolved	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Rank:	0i00047:		

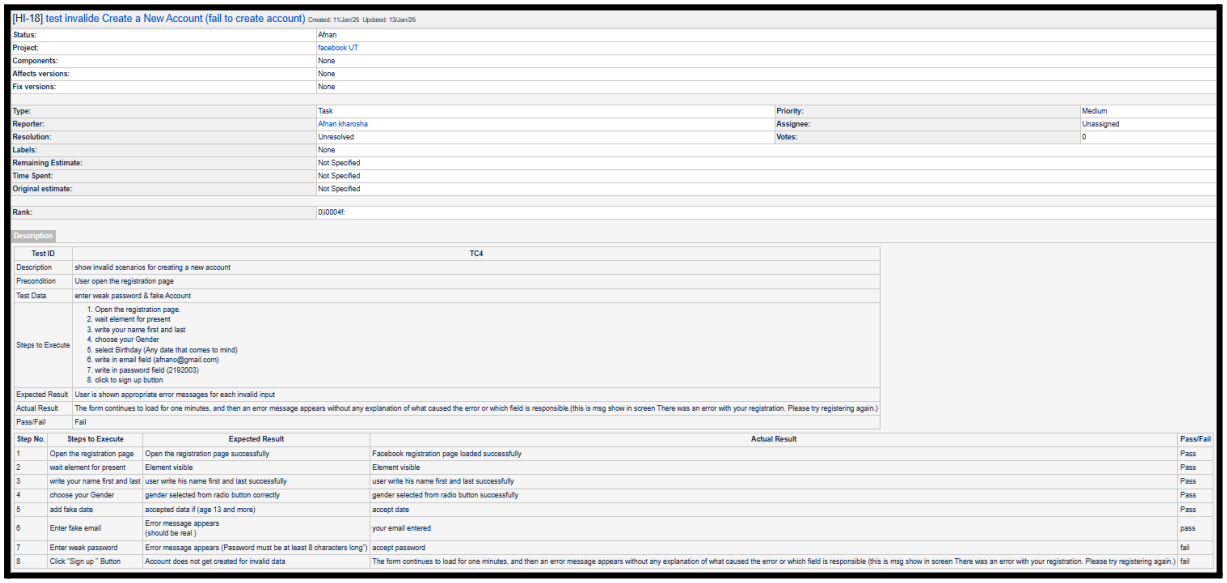
Comments

Comment by Afnan kharosha | 13/Jan/25 |

Test ID	TC2
Description	Add bio to your account and change privacy of your posts and add photo to your profile
Precondition	User must login to his account and go to personal page
Test Data	add bio and change privacy and add photo to your profile
Steps to Execute	1. Open the Facebook page 2. verify if user log in account 3. open you personal page 4. click to add bio 5. write your test 6. Click on save 7. scroll in mouse to see all information in your profile 8. select filters 9. update your privacy by choosing from options menu 10. click on done button to save privacy state 11. click on add photo to profile 12. verify selected label 13. click on upload image 14. selected photo from your device 15. click on open 16. wait for element present 17. click on save changes in right side 18. close your profile
Expected Result	The user add text in bio and update your privacy state and add photo to profile all complete successfully and displayed correctly on the profile.
Actual Result	The user add text in bio and update your privacy state and add photo to profile all complete successfully and displayed correctly on the profile.
Pass/Fail	pass

Steps Number	Name with Simple Description	Expected Result	Actual Result	status
1	Open Facebook Page	Facebook homepage loads	Facebook homepage loaded	pass
2	Verify User Login	User is logged in	User is logged in	pass
3	Open Personal Page	User's profile page opens	User's profile page opened	pass
4	Click to Add Bio	Bio editing button appears	Bio editing button clicked	pass
5	Write Test Bio	Test bio text entered	Test bio text entered	pass
6	Click on Save	Bio is saved successfully	Bio is saved successfully	pass
7	Scroll to See All Information	Profile info visible	Profile info visible	pass
8	Select Filters	Filters are applied	Filters applied	pass
9	Update Privacy Settings	Privacy options updated	Privacy updated	pass
10	Click Done	Privacy state saved	Privacy saved	pass
11	Click on Add Photo to Profile	Photo upload dialog appears	Photo upload dialog opened	pass
12	Verify Selected Label	Correct label shown	Correct label displayed	pass
13	Click on Upload Image	Image upload dialog appears	Image upload dialog opened	pass
14	Select Photo from Device	Photo is selected	Photo selected	pass
15	Click Open	Photo selected	Photo selected	pass
16	Wait for Element to Present	Element visible	Element visible	pass
17	Click Save Changes	Photo is saved	photo saved	pass
18	Close Profile	Profile page closed	Profile page closed	pass

Invalide Create a New Account (fail to create account)



[HI-18] test invalide Create a New Account (fail to create account) Created: 11/Jan/25 Updated: 13/Jan/25

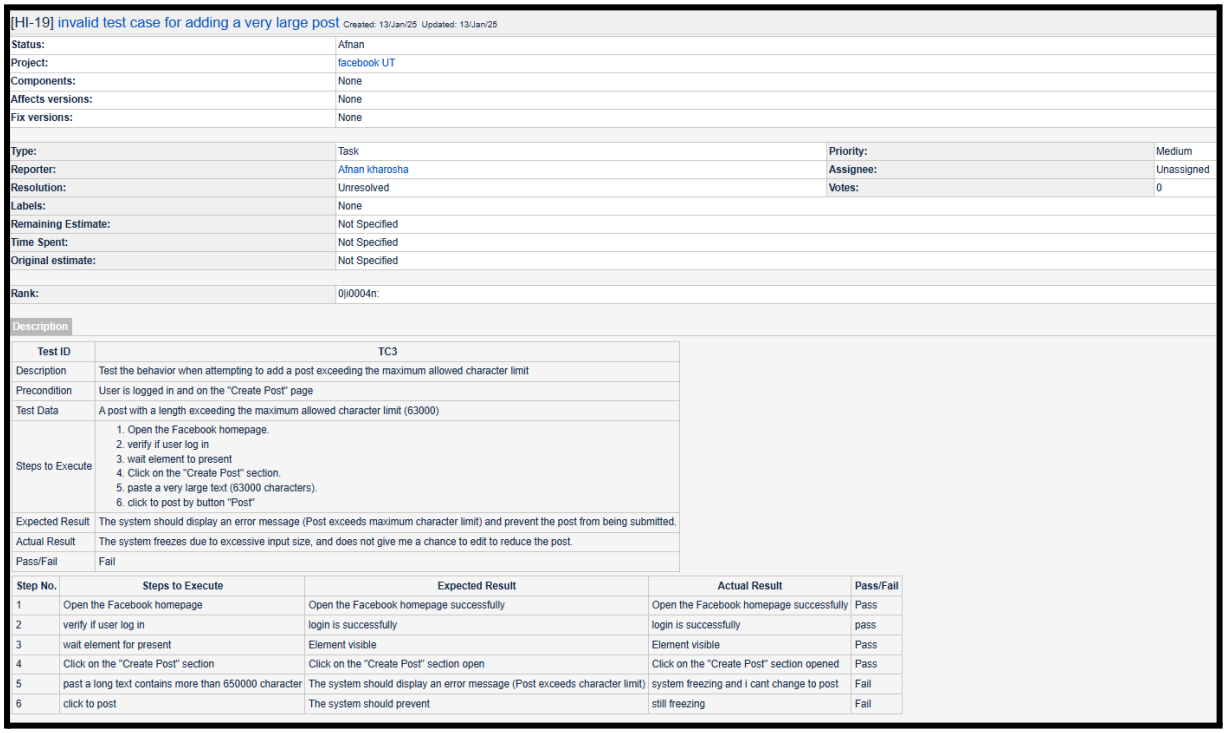
Status:	Afnan		
Project:	facebook UT		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Type:	Task	Priority:	Medium
Reporter:	Afnan kharosha	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Rank:	0i0004f:		

Description

Test ID	TC4
Description	show invalid scenarios for creating a new account
Precondition	User open the registration page
Test Data	enter weak password & fake Account
Steps to Execute	1. Open the registration page. 2. wait element for present 3. write your name first and last 4. choose your Gender 5. select Birthday (Any date that comes to mind) 6. write in email field (afnano@gmail.com) 7. write in password field (2192003) 8. click to sign up button
Expected Result	User is shown appropriate error messages for each invalid input
Actual Result	The form continues to load for one minutes, and then an error message appears without any explanation of what caused the error or which field is responsible.(this is msg show in screen There was an error with your registration. Please try registering again.)
Pass/Fail	Fail

Step No.	Steps to Execute	Expected Result	Actual Result	Pass/Fail
1	Open the registration page	Open the registration page successfully	Facebook registration page loaded successfully	Pass
2	wait element for present	Element visible	Element visible	Pass
3	write your name first and last	user write his name first and last successfully	user write his name first and last successfully	Pass
4	choose your Gender	gender selected from radio button correctly	gender selected from radio button successfully	Pass
5	add fake date	accepted data if (age 13 and more)	accept date	Pass
6	Enter fake email	Error message appears (should be real)	your email entered	pass
7	Enter weak password	Error message appears (Password must be at least 8 characters long")	accept password	fail
8	Click "Sign up " Button	Account does not get created for invalid data	The form continues to load for one minutes, and then an error message appears without any explanation of what caused the error or which field is responsible (this is msg show in screen There was an error with your registration. Please try registering again.)	fail

Invalid test case for adding a very large post



[HI-19] invalid test case for adding a very large post Created: 13/Jan/25 Updated: 13/Jan/25

Status:	Afnan		
Project:	facebook UT		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Type:	Task	Priority:	Medium
Reporter:	Afnan kharosha	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Rank:	0i0004n:		

Description

Test ID	TC3
Description	Test the behavior when attempting to add a post exceeding the maximum allowed character limit
Precondition	User is logged in and on the "Create Post" page
Test Data	A post with a length exceeding the maximum allowed character limit (63000)
Steps to Execute	1. Open the Facebook homepage. 2. verify if user log in 3. wait element to present 4. Click on the "Create Post" section. 5. paste a very large text (63000 characters). 6. click to post by button "Post"
Expected Result	The system should display an error message (Post exceeds maximum character limit) and prevent the post from being submitted.
Actual Result	The system freezes due to excessive input size, and does not give me a chance to edit to reduce the post.
Pass/Fail	Fail

Step No.	Steps to Execute	Expected Result	Actual Result	Pass/Fail
1	Open the Facebook homepage	Open the Facebook homepage successfully	Open the Facebook homepage successfully	Pass
2	verify if user log in	login is successfully	login is successfully	pass
3	wait element for present	Element visible	Element visible	Pass
4	Click on the "Create Post" section	Click on the "Create Post" section open	Click on the "Create Post" section opened	Pass
5	past a long text contains more than 650000 character	The system should display an error message (Post exceeds character limit)	system freezing and i cant change to post	Fail
6	click to post	The system should prevent	still freezing	Fail

- ***Test Automation***

 Login-RememberMe

 Log In-SendCode

 Send Text Message

 Send Compress file

 Invalid Search

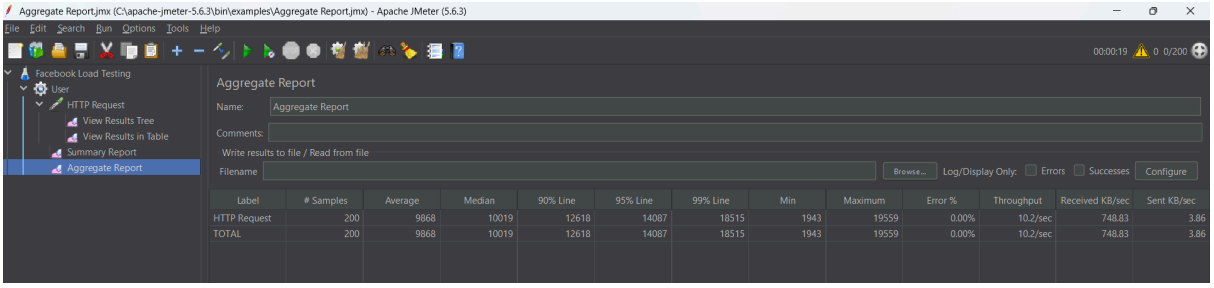
 Valid Search

 Shared post & Update profile

◆ *Performance and load Testing*

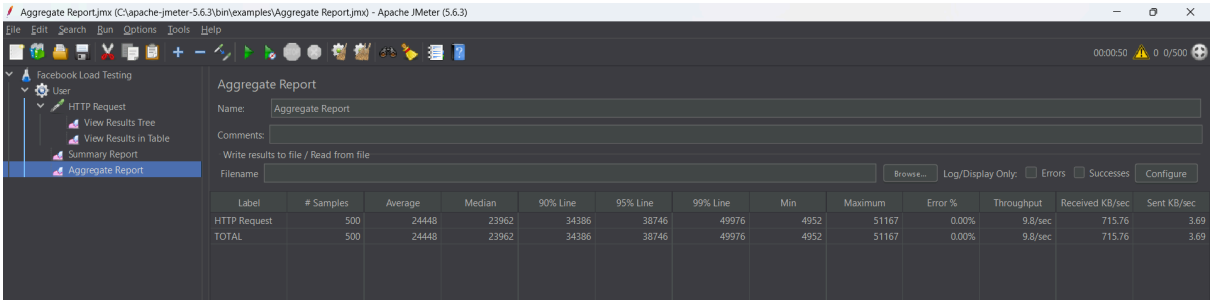
Performance and load tests were conducted on the Facebook platform using JMeter to evaluate the system's ability to handle different user loads. The test started with simulating 100 users initially, and the number was gradually increased until reaching 12,500 users. The system response was measured and the impact of increasing the number of users on the system performance was analyzed.

*At First We Start With 200 Users:



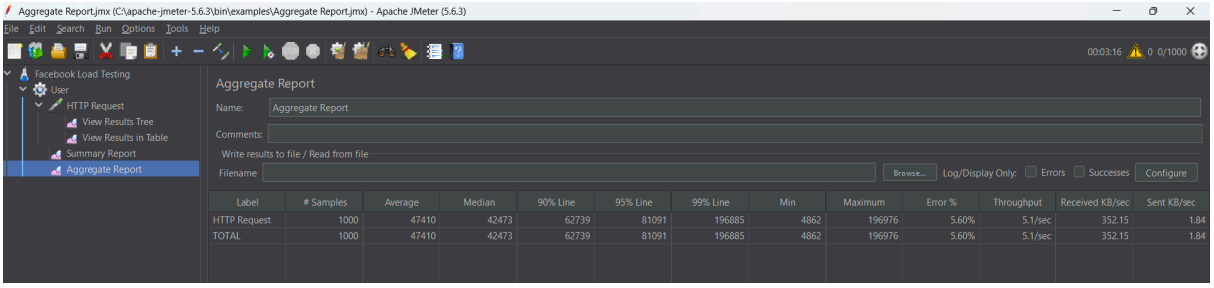
→ the system successfully handled 200 requests with a 0.00% error rate, indicating no failures. The average response time was 8966 ms, with a throughput of 10.2 requests per second.

*increase number of user to 500 users :



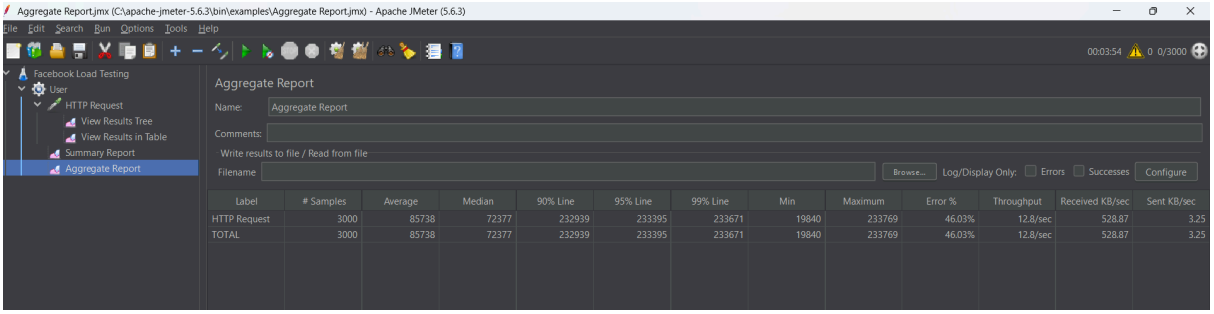
→ The test executed 500 requests with indicates successful The system achieved a throughput of 9.8 requests per second with 0.00% errors

*increase number of users to 1000 users



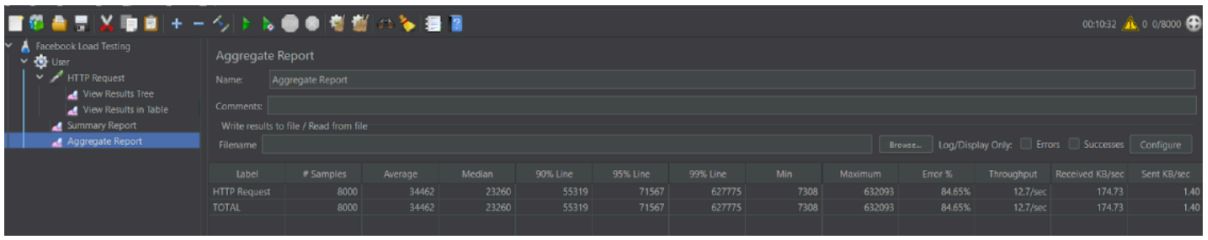
→The test executed 1000 requestsThe system achieve a throughput of 5.17 requests/second the error rate increased to 5.67% .

*increase number of users to 3000 users



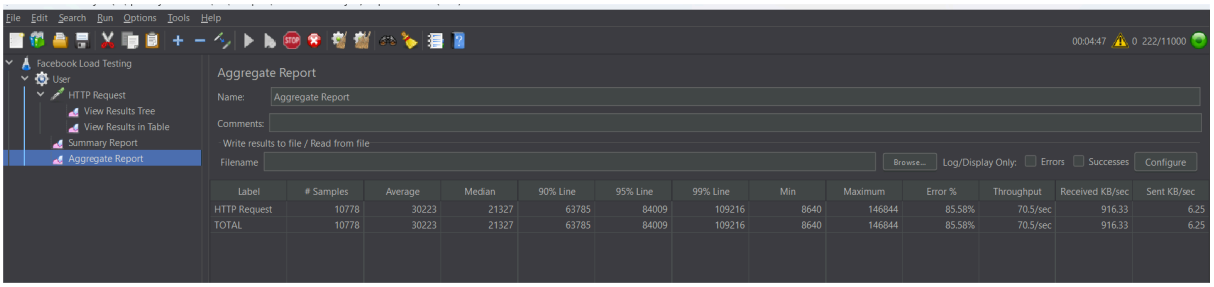
→The test executed 3000 requests, the error rate increased to 46.03% and the throughput was 12.6 requests per second.

*increase number of users to 8000 users



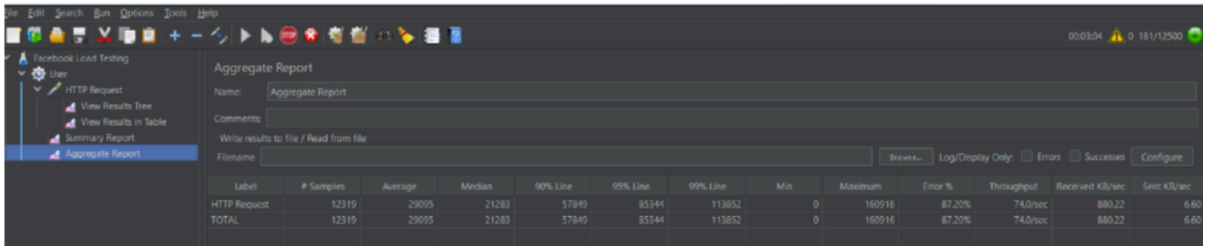
→8000 requests were executed during the test, with throughput reaching 12.7 requests per second. The error rate was very high, reaching 84.65%, meaning that 6772 requests failed.

*increase number of users to 11000 users



→10,778 requests were executed during the test out of 11,000 and the error rate became very high, reaching 85.58% which means 9,222 requests failed.

*increase number of users to 12500 users



12,191 requests out of 12,500 original requests were executed during the test, with an error rate of 87.20%, meaning that 11,825 requests failed. These results indicate that the system has reached a stress test, where it has been subjected to extreme stress to fail a request.