Software Quality Assurance and Testing

Facebook

A Report
By

SHAFIUL AJAM OPEE

1. TEST PLAN IDENTIFIER:RS-MTP01.3

2. REFERENCES

- https://www.facebook.com/
- Getting Started · Selenium IDE
- Software Testing and Quality Assurance – Theory and Practice - Kshirasagar Naik & Priyadarshi Tripathy
- Selenium IDE Commands 2021 - Overview and Tutorials (ui.vision)

3. INTRODUCTION

Background to the Problem

- In today's digital age, Facebook is a popular social media platform with billions of users worldwide. As Facebook undergoes frequent updates and changes, it is crucial to ensure that its features and functionalities are working correctly to provide a seamless user experience. Manual testing of Facebook's entire functionality can be time-consuming and prone to human errors, necessitating a more efficient and automated approach.

Solution to the Problem

- Implementing an automated testing framework using Selenium IDE for Facebook can greatly streamline the testing process and improve efficiency. Selenium IDE is a browser extension that allows the recording and playback of user actions, making it suitable for creating test cases for web applications like Facebook.

  By utilizing Selenium IDE, the following benefits can be achieved:
- Test Case Creation: Selenium IDE enables the creation of test cases by recording user actions such as logging in, posting content, searching for friends, and interacting with various features on Facebook.
- Efficient Test Execution: With Selenium IDE, test cases can be executed automatically, reducing the need for manual intervention and saving time. This allows for faster and more frequent testing, ensuring that changes or updates to Facebook do not introduce new bugs or issues.
- Validation of Functionality: Test cases can be designed to validate key functionalities of Facebook, including user authentication, posting and sharing content, commenting, liking, and

messaging. By systematically checking these functionalities, any potential issues or regressions can be identified early on.

- Error Detection and Reporting: Selenium IDE provides built-in mechanisms for capturing and reporting errors encountered during test execution. This helps in identifying specific areas of Facebook where issues are occurring and enables developers to address them promptly.
- Continuous Integration: Selenium IDE can be integrated with continuous integration tools like Jenkins, allowing for the automation of test execution as part of the development workflow. This ensures that Facebook's functionality is continuously tested, providing timely feedback on the impact of code changes.

  By implementing an automated testing framework using Selenium IDE for Facebook, the project aims to enhance the testing process, improve efficiency, and ensure the smooth functioning of the platform, ultimately leading to a better user experience for Facebook users. environment where job seekers can discover reputable companies and organizations that align with their career aspirations.

4. TEST CASES/TEST ITEMS

Test Case ID: LI_03			Test Designed date: 22.07.2023	
Test Priority (Low, Medium, High): Medium			Test Executed by: Shafiul Ajam Opee	
Module Name: Verify search for a Facebook profile			Test Execution date: 22.07.2023	
Test Title: Verify the "Search a profile" feature				
Description: Test the ability to show user Facebook profile				
Precondition (If any): User must have a Facebook profile.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Login with valid username and password 3. Navigate to the user's profile page 4. Click on the "Who viewed your profile" section 5. View the list of users who have recently viewed the user's profile	Tamim Karim	The profile I searched for will be shown	As expected,	Pass

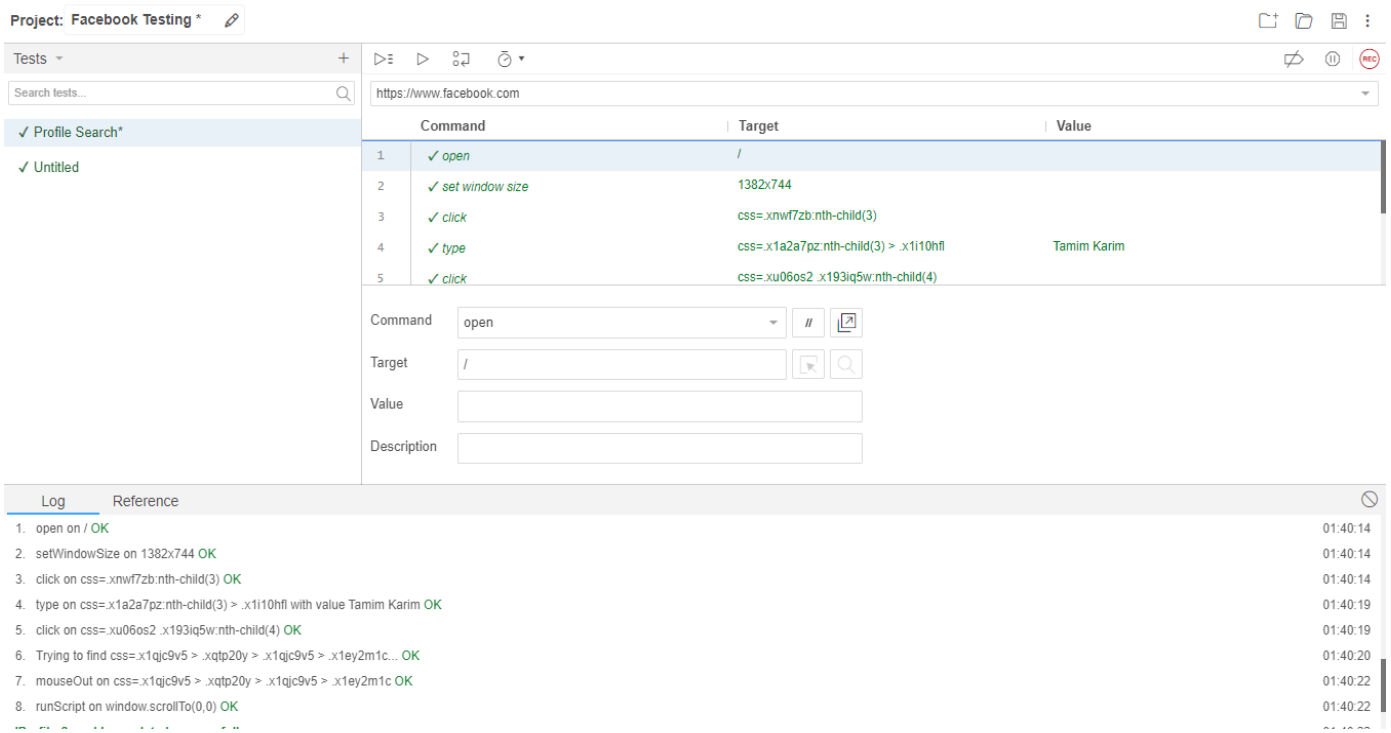

Fig: Test execution result for searching profiles

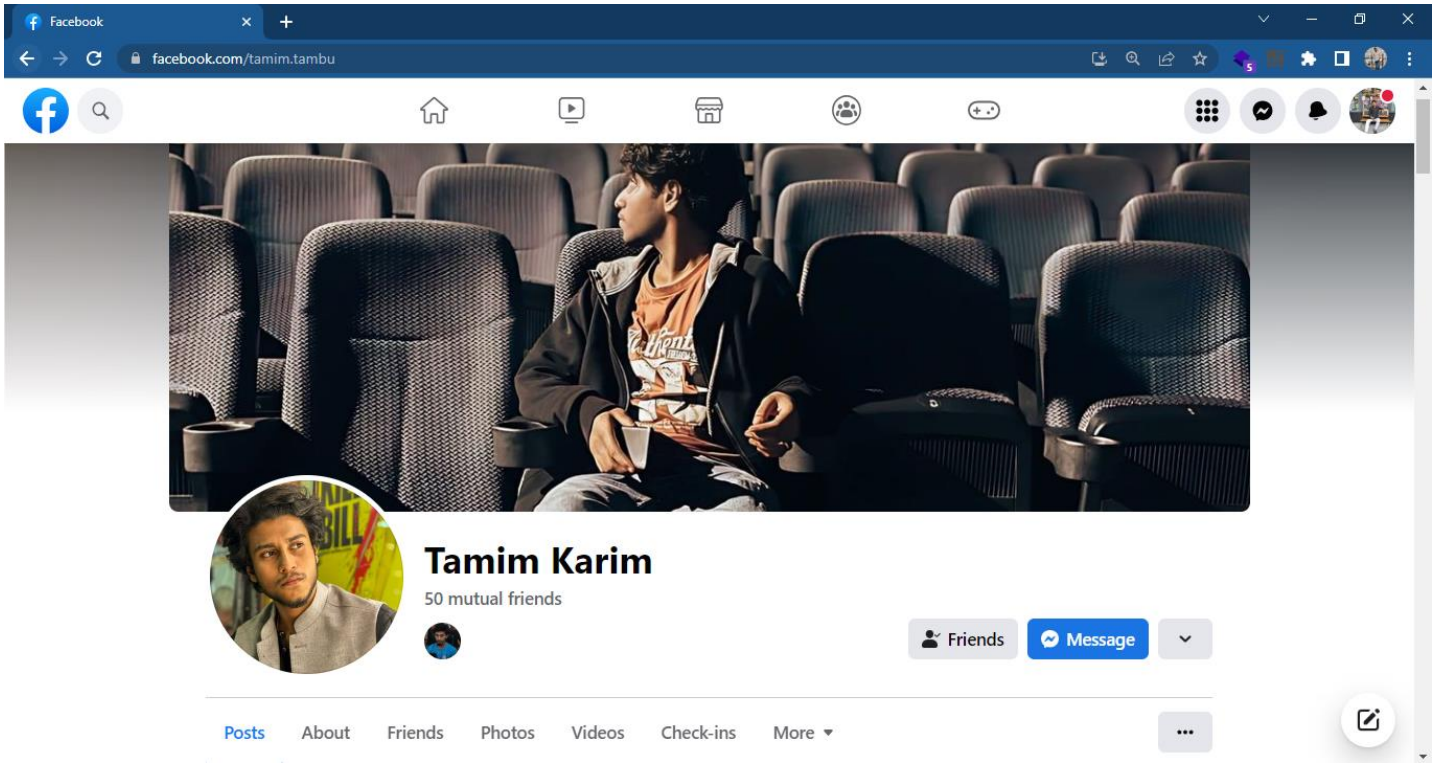

Fig: Searching a profile on Facebook

Test Case ID: LI_03	Test Designed date: 22.07.2023
Test Priority (Low, Medium, High): Medium	Test Executed by: Shafiul Ajam Opee
Module Name: Message a Facebook Friend	Test Execution date:22.07.2023
Test Title: Verify the "Message delivered or not" feature	
Description: Test the ability to message someone in Facebook and check if it is delivered.	
Precondition (If any): User must have a Facebook profile and Searched profile should be active	

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Login with valid username and password 3. Navigate to the Messager icon 4. Click on the Messenger icon section 5. Click Search Messenger to search profile you want to send messages 6. Search Profile name 7. Select Profile 8. Click on the message box to write message. 9. Press enters to send		Sent intended message to the profile I searched on messenger.	As expected,	Pass

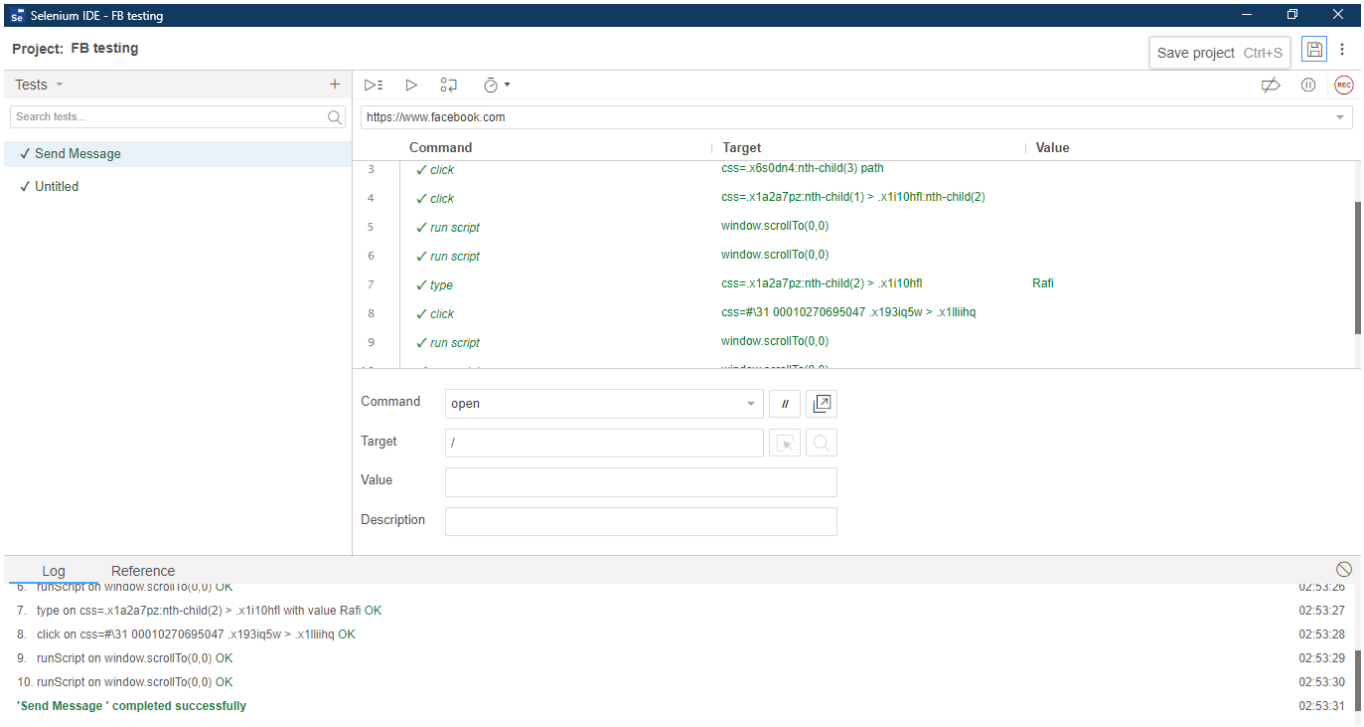

Fig: Test execution result for sending message on Facebook

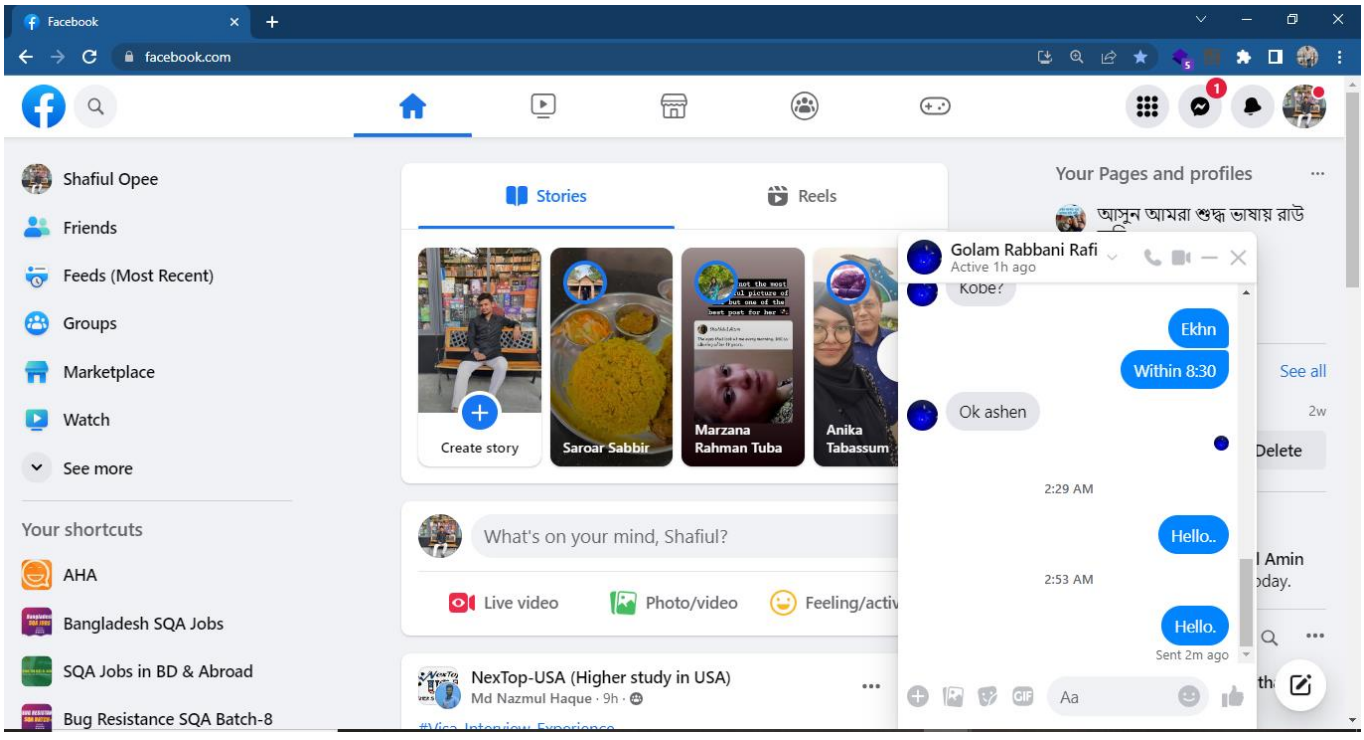

Fig: Sent a message on Facebook

Test Case ID: LI_04	Test Designed date: 23.07.2023
Test Priority (Low, Medium, High): Medium	Test Executed by: Shafiul Ajam Opee
Module Name: Save Jobs	Test Execution date:23.07.2023
Test Title: Verify the "View my profile" feature	
Description: Test the ability to view my profile on Facebook	
Precondition (If any): User must have a Facebook profile and be logged in	

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Login with valid username and password 3. Click to the right corner on profile picture 4. Click on your profile name 5. View and scroll your profile on Facebook		The profile details should be displayed.	As expected,	Pass

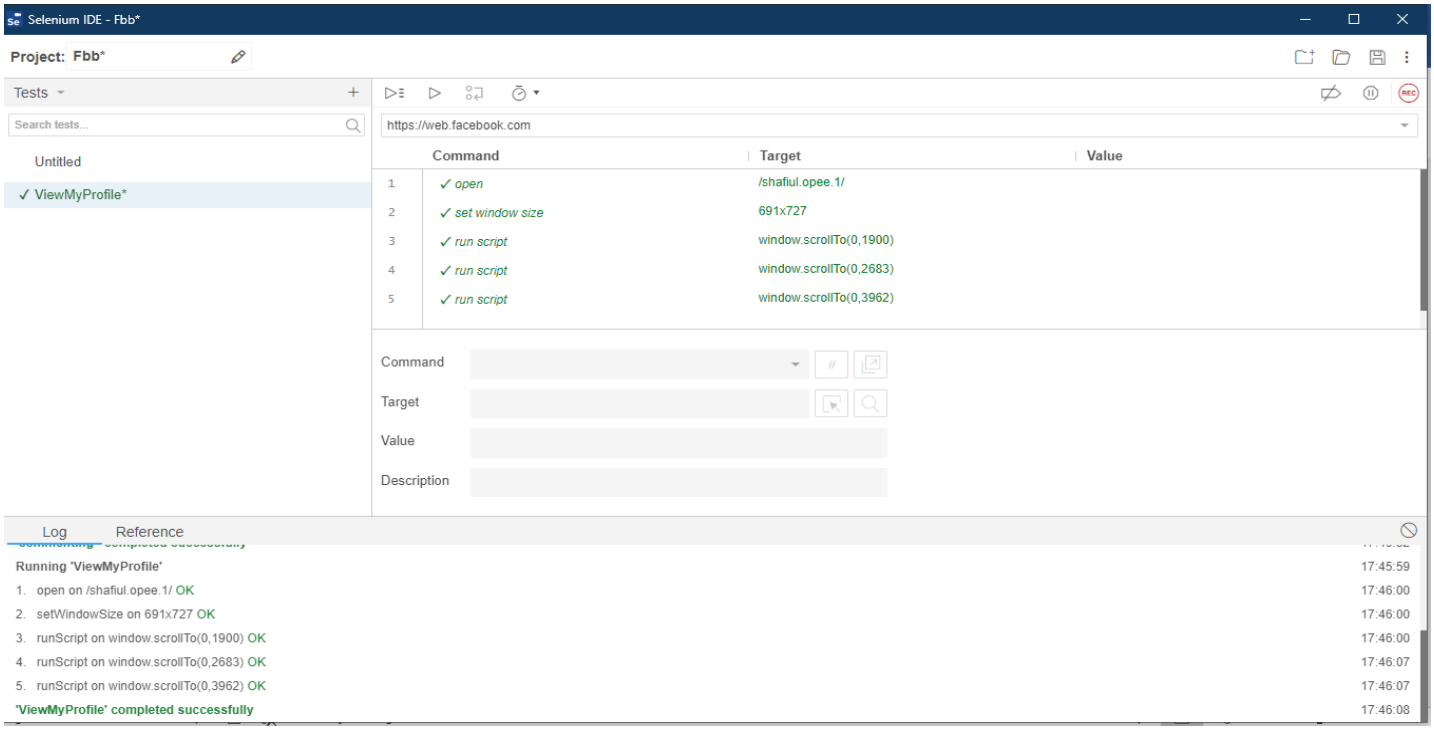

Fig: Test execution to view my profile on Facebook

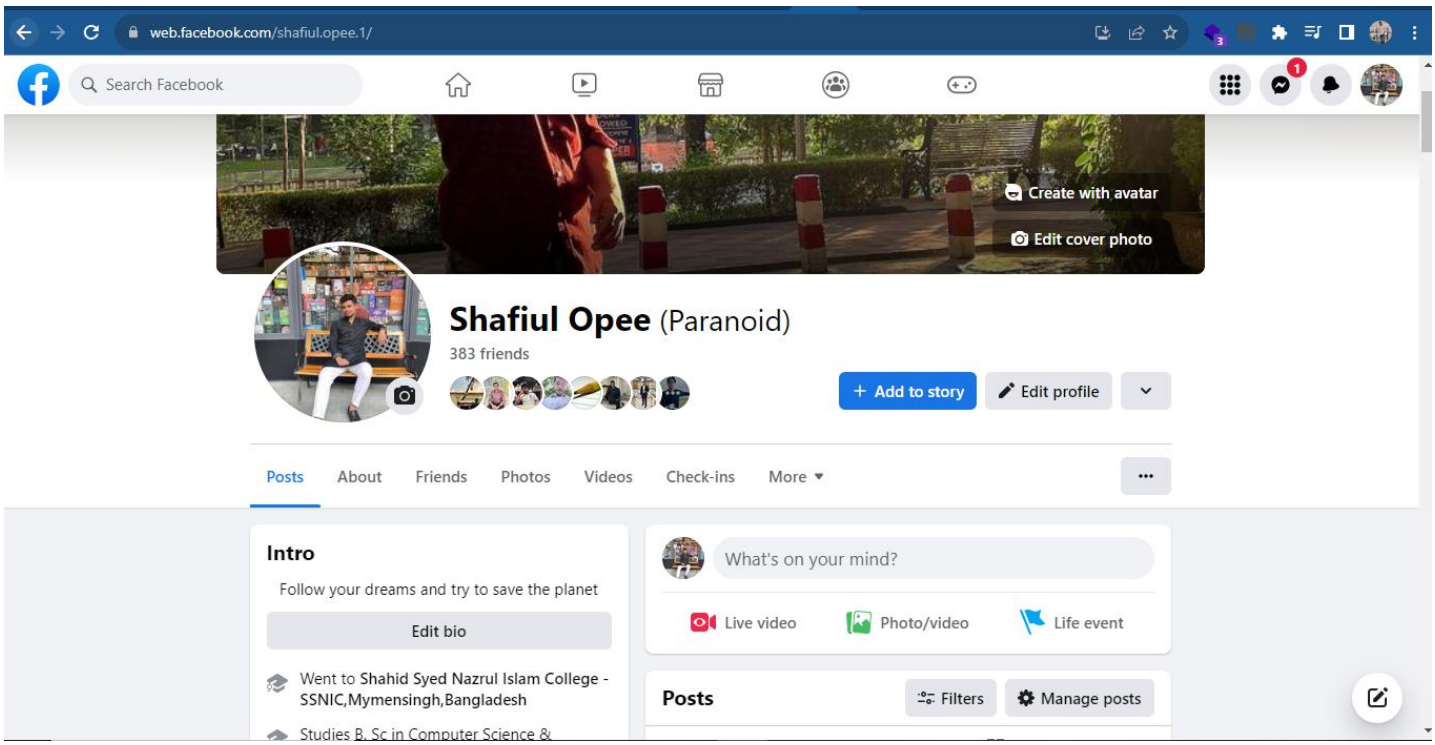

Fig: Viewed My profile on Facebook

Test Case ID: LI_05	Test Designed date: 24.07.2023
Test Priority (Low, Medium, High): High	Test Executed by: Shafiul Ajam Opee
Module Name: Sending friend request	Test Execution date:24.07.2023
Test Title: Verify the ability to send a friend request	
Description: Test the ability to send a friend request on Facebook	
Precondition (If any): User must have a Facebook profile and be logged in	

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Login with valid username and password 3. Click to "search Facebook" in the top left corner 4. Search the account with the name you want to find. 5. Click on the profile name 6. Click to "Add Friend"	Account Name	The friend request should be sent	As expected,	Pass

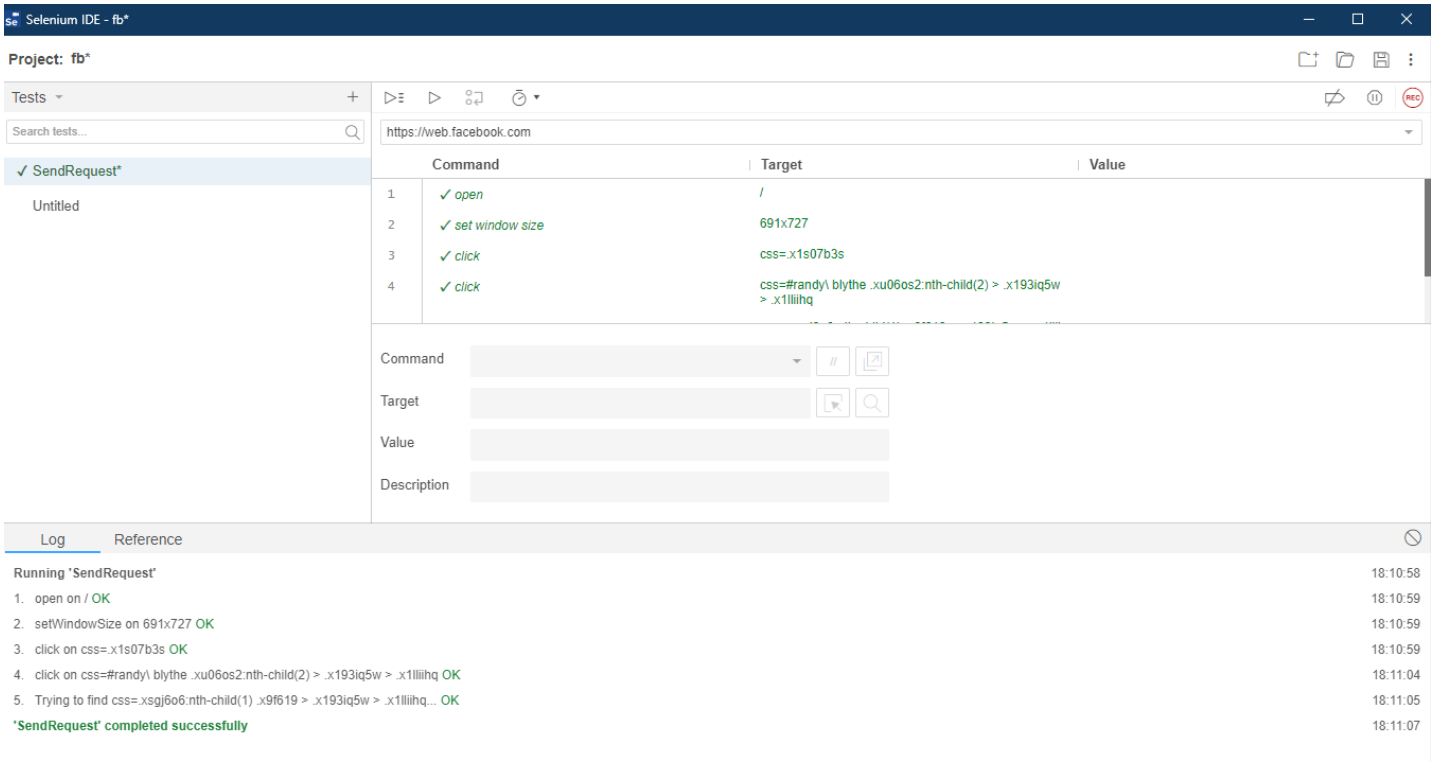

Fig: Test execution result to send a friend request to other profile

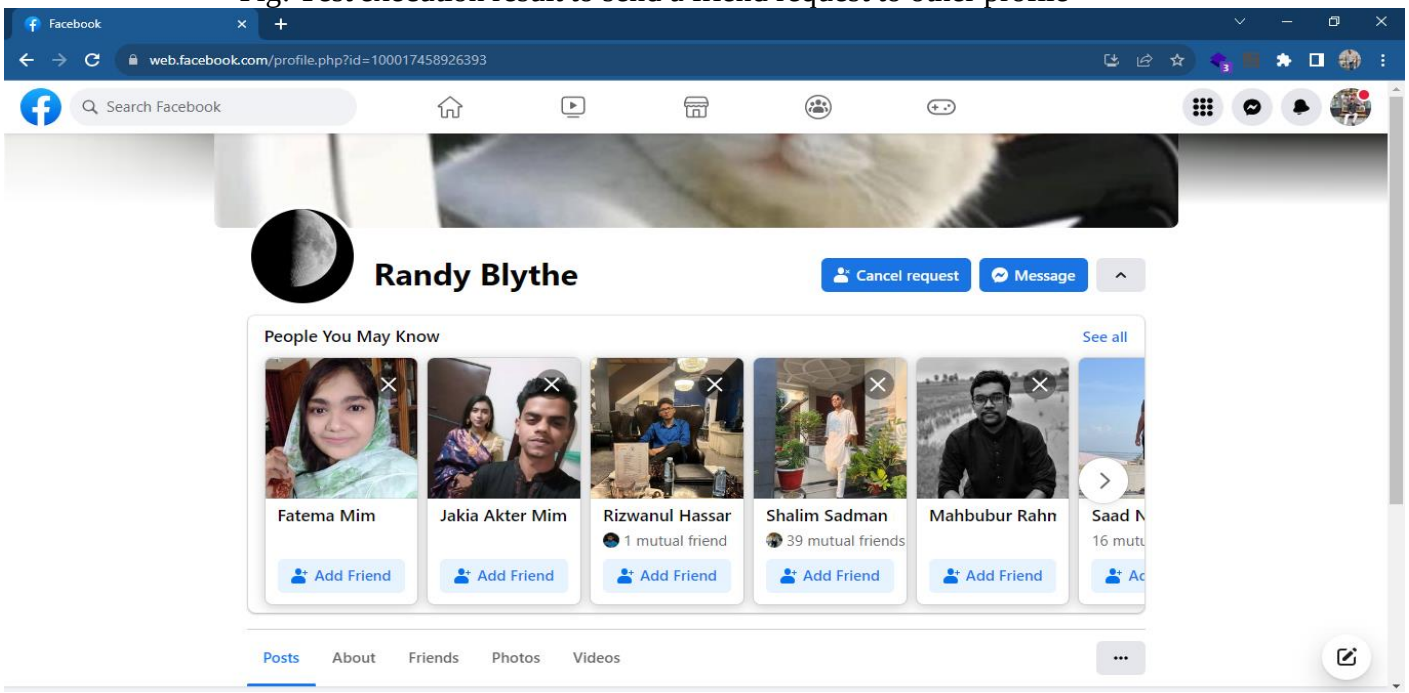

Fig: Sending friend request on Facebook

Conclusion : In conclusion, the implementation of an automated testing framework using Selenium IDE for Facebook, as outlined in this test plan, offers several significant advantages for ensuring the platform's functionality and enhancing the user experience.

By leveraging Selenium IDE, the testing process becomes more efficient, allowing for the creation of test cases through recording and playback of user actions. This automation enables faster and more frequent test execution, reducing the risk of human errors and saving valuable time during the testing phase. The ability to validate key functionalities such as user authentication, content posting, commenting, and messaging ensures that Facebook operates smoothly and without regressions.