Automation Testing of the TeamSync Web Application – Test Case   Execution using Selenium IDE

Testing Approach: Automated Functional Testing

Tool Used: Selenium IDE

System Under Test (SUT): TeamSync – Web-based Project Management Platform

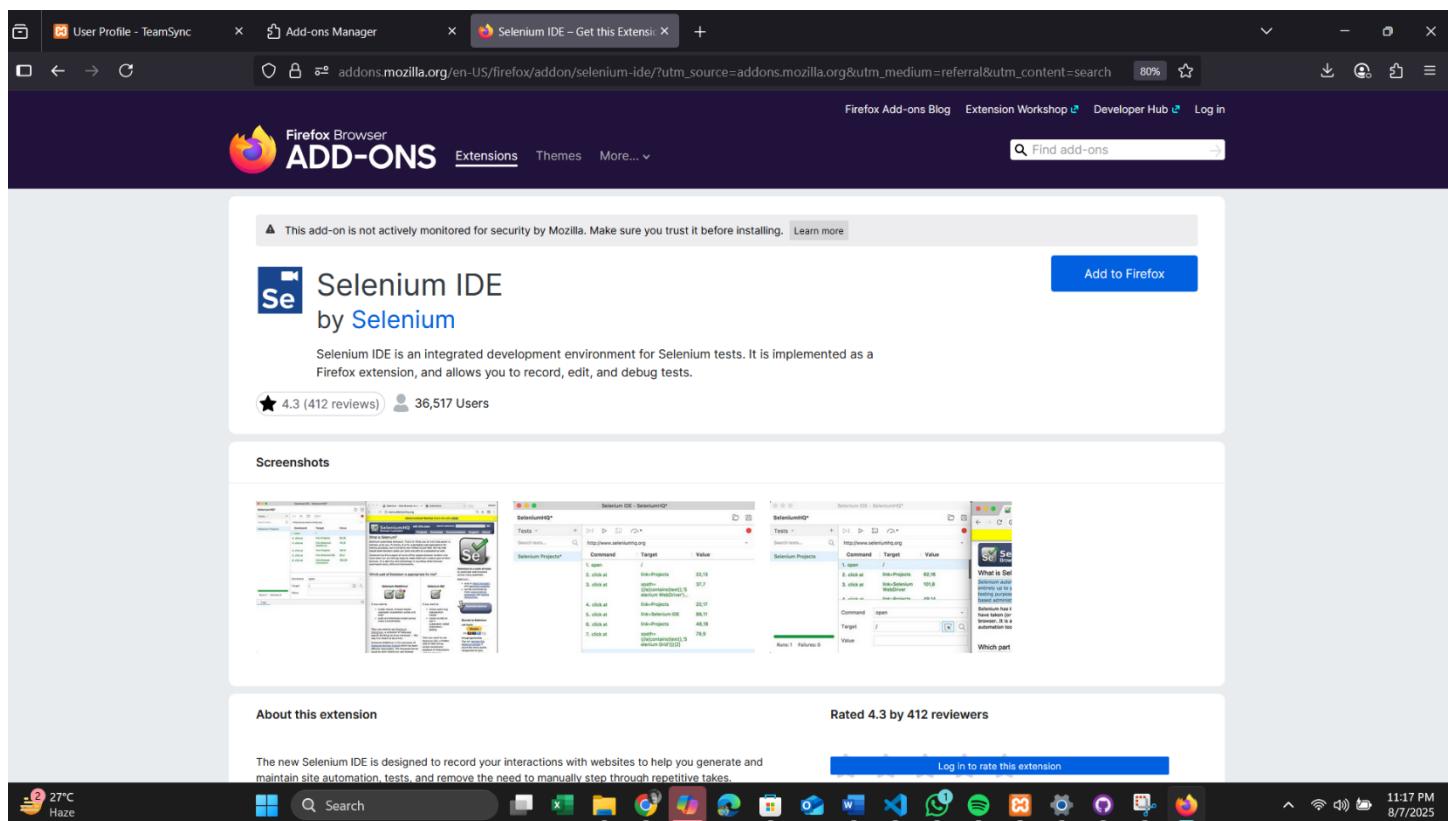# MD ASSADULLA AL GALIB

Overview:

TeamSync is a web-based project management platform designed to help teams efficiently manage tasks, monitor progress, and collaborate in real time. The system provides features such as task assignment, progress tracking, document sharing, and user role management. Team members can view project updates, deadlines, and assigned tasks, while administrators can oversee project performance and team activity. The platform also includes a responsive user interface and a centralized dashboard for better navigation and control. Overall, TeamSync streamlines project workflows, enhances communication, and improves overall team productivity.

Installation steps:

Step 1: First, we will add the Selenium IDE extension from the Firefox Add-ons Store.

- Open Firefox and visit: https://addons.mozilla.org/en-US/firefox/addon/selenium-ide/

Step 2: Click the **"Add to Firefox"** button.

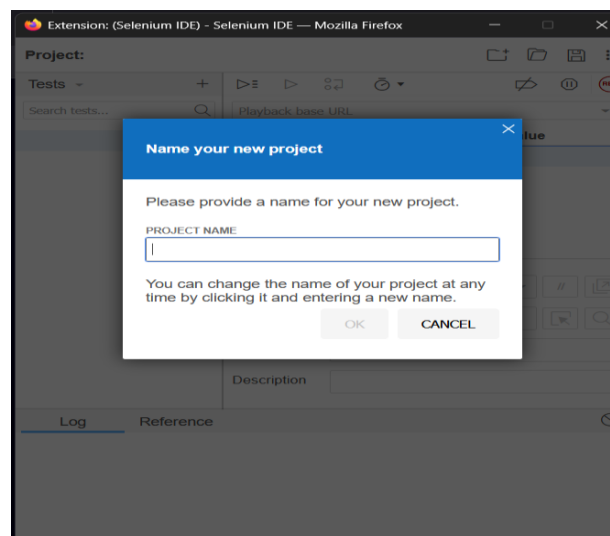**Step 3:** When prompted, click "Add" to confirm installation.

Step 4: After installation, the Selenium IDE icon will appear in the top-right corner of your browser toolbar.
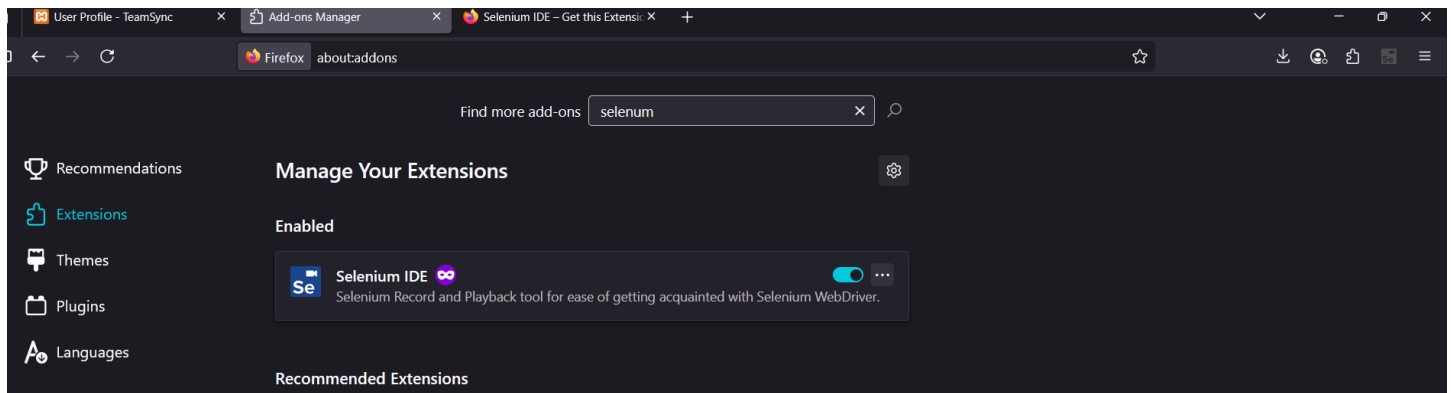
Step 5: Then, click **"Create a new project"** to start a new test project.
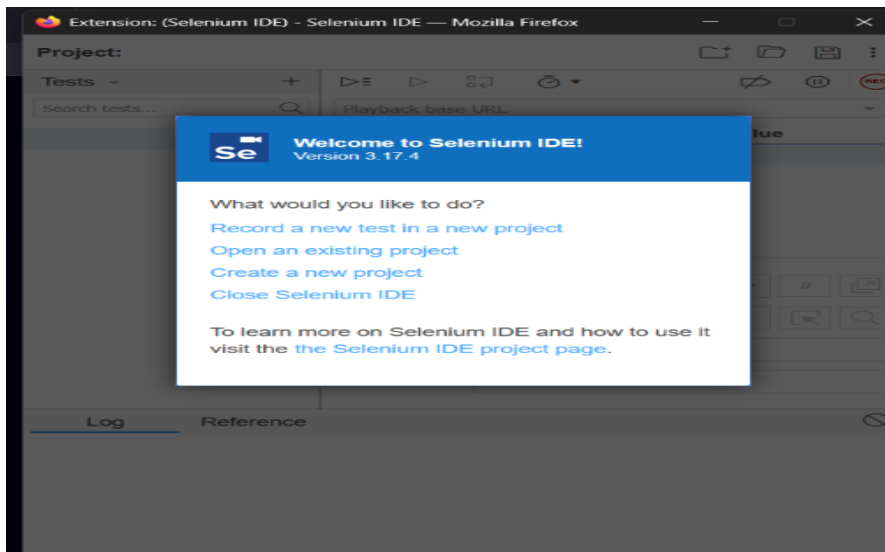
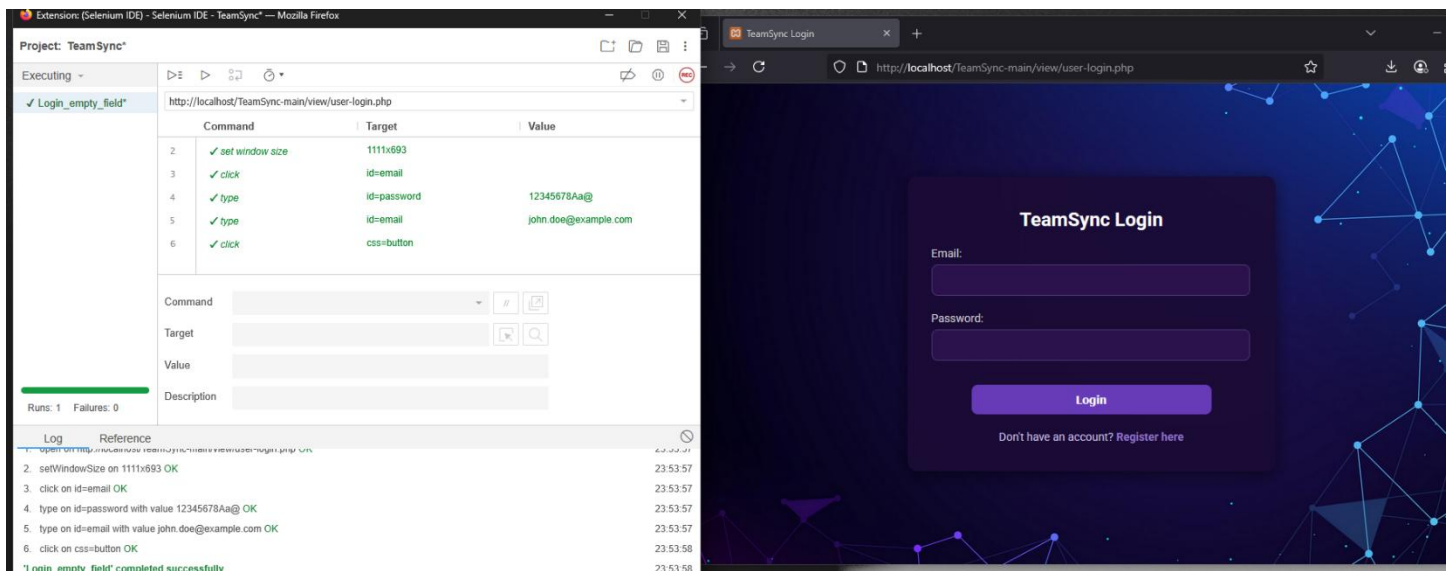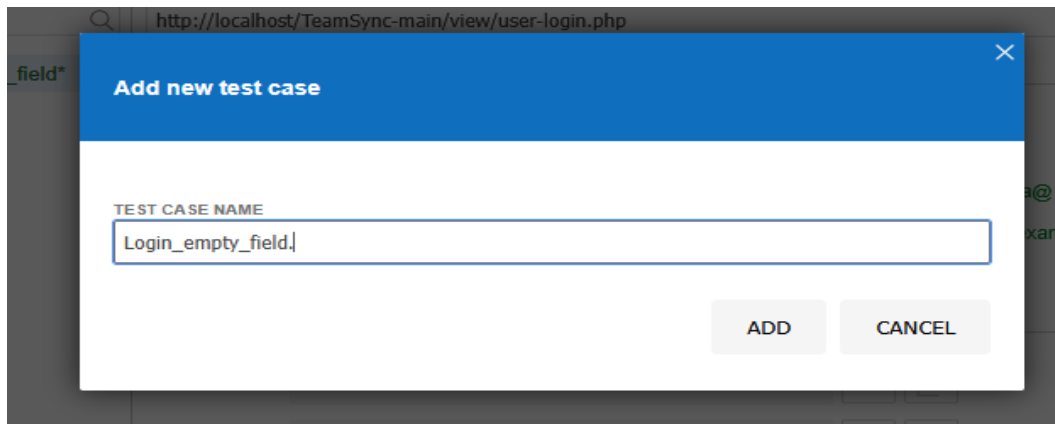**Step 6:** Enter the **project name** you want to test, then click **"Start Recording."**

Testing:

Test Case 1 – Login Page Validation
Description: Verify that if both username and password fields are left blank, the system displays an appropriate error message in a dialogue box.
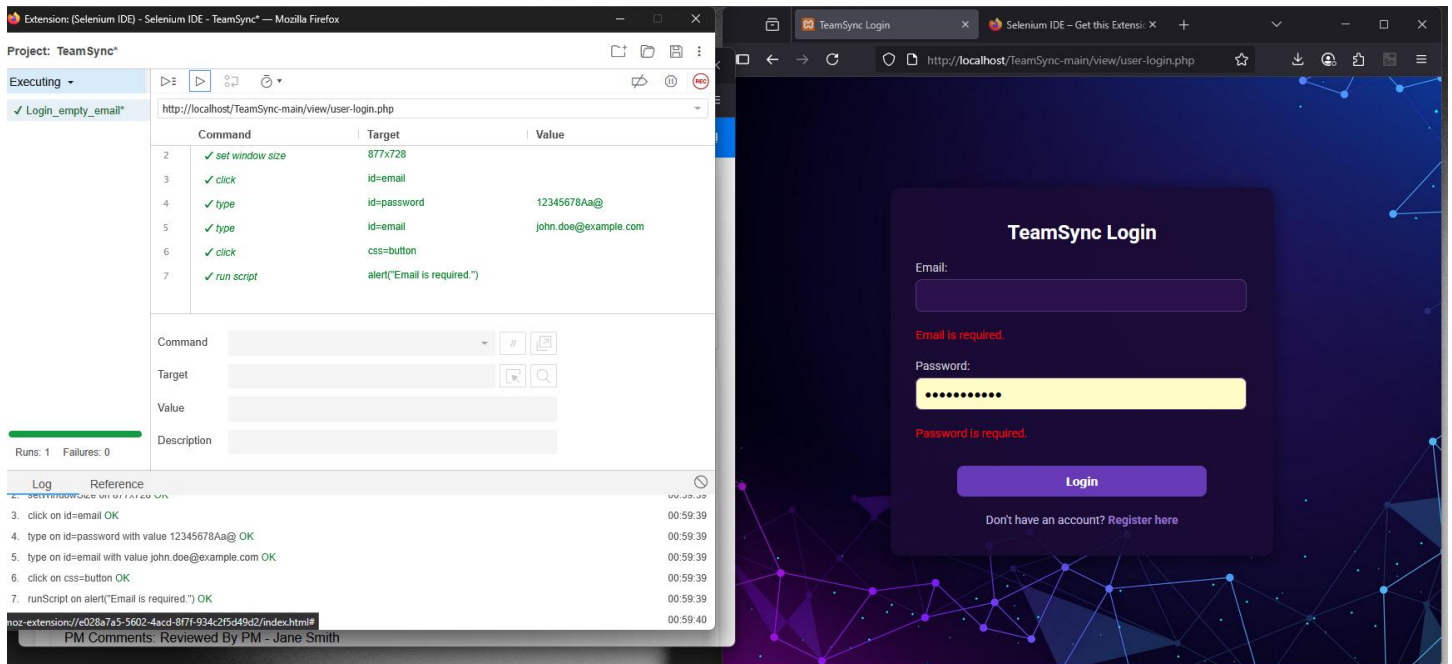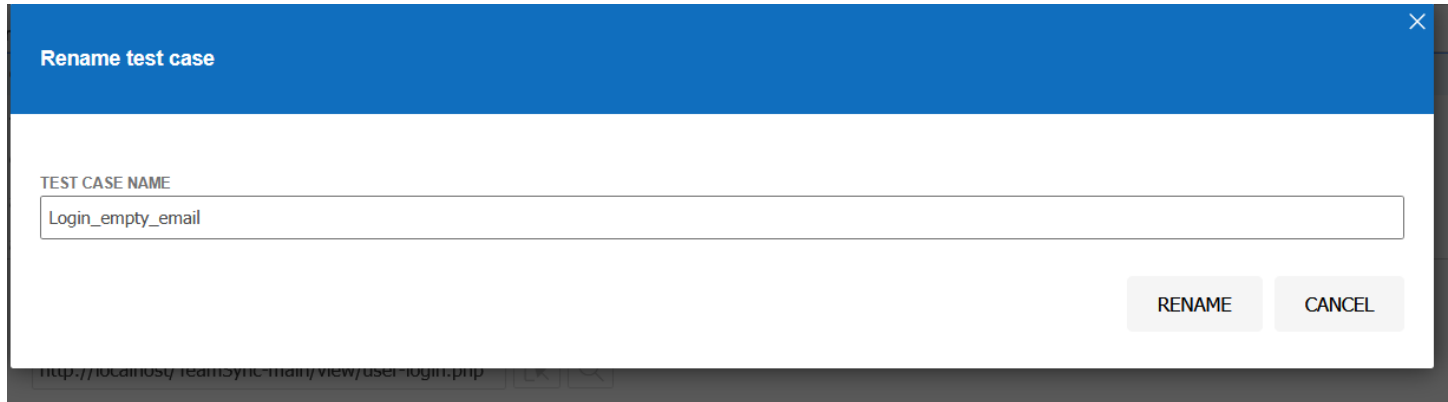
Screenshots:

Test Case 2 – Invalid Login (Empty Email)
Description: Verify that when the email field is left blank and password is entered, the system displays an error message indicating that email is required.
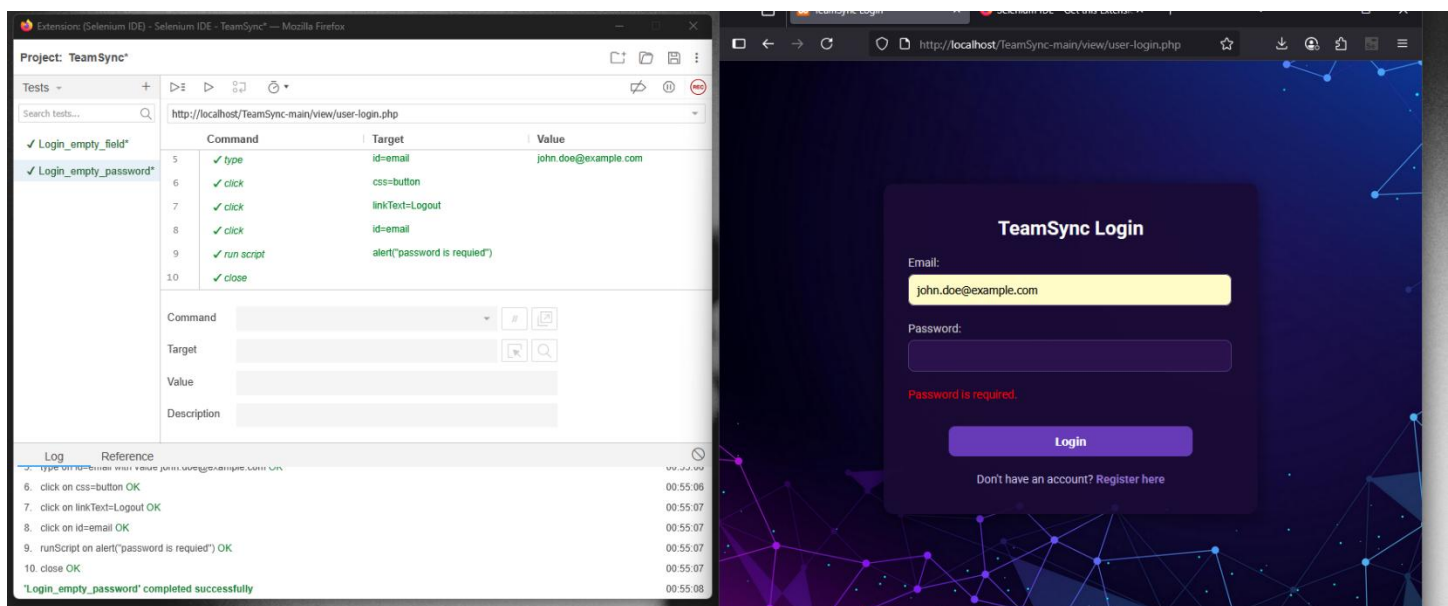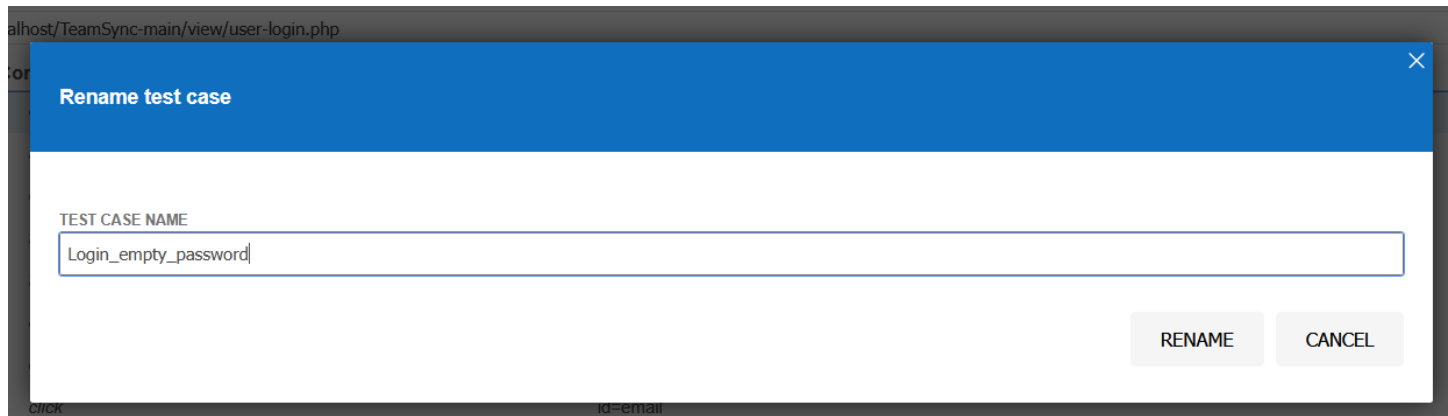Screenshots:

Test Case 3 – Invalid Login (Empty Password)
Description: Verify that when the password field is left blank and email is entered, the system displays an error message indicating that password is required.
Screenshots

Test Case 4 – Successful Login
Description: Verify that entering valid credentials grants access to the dashboard.
Screenshots:

Test Case 5 – View All Tasks
Description: Verify that all tasks assigned to the user are displayed on the dashboard

Screenshots:

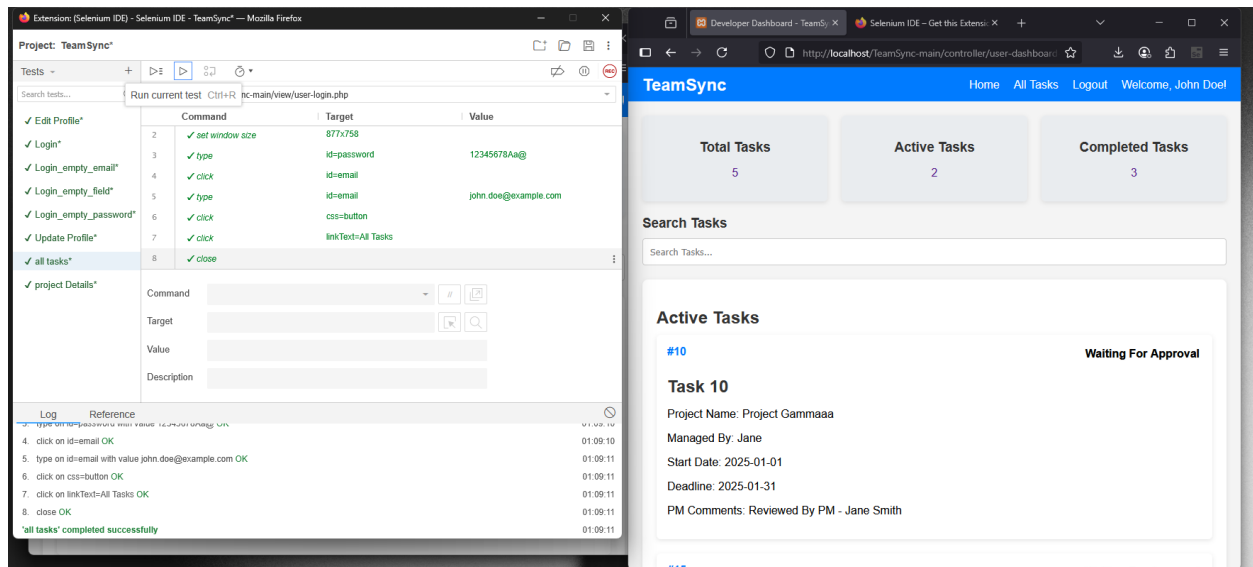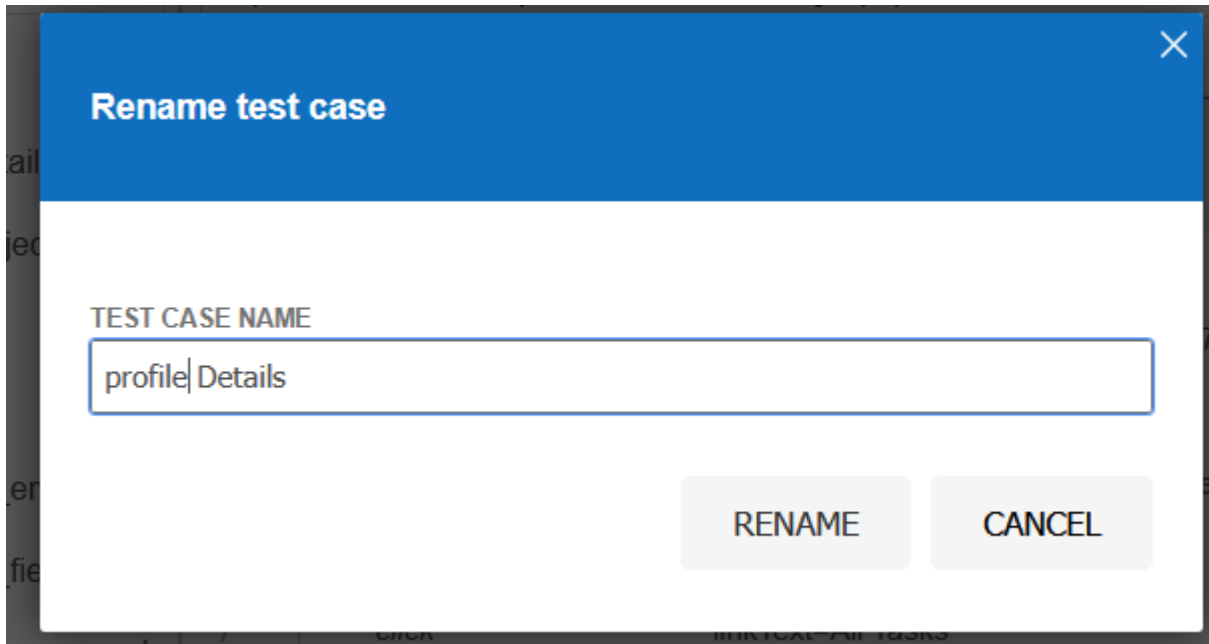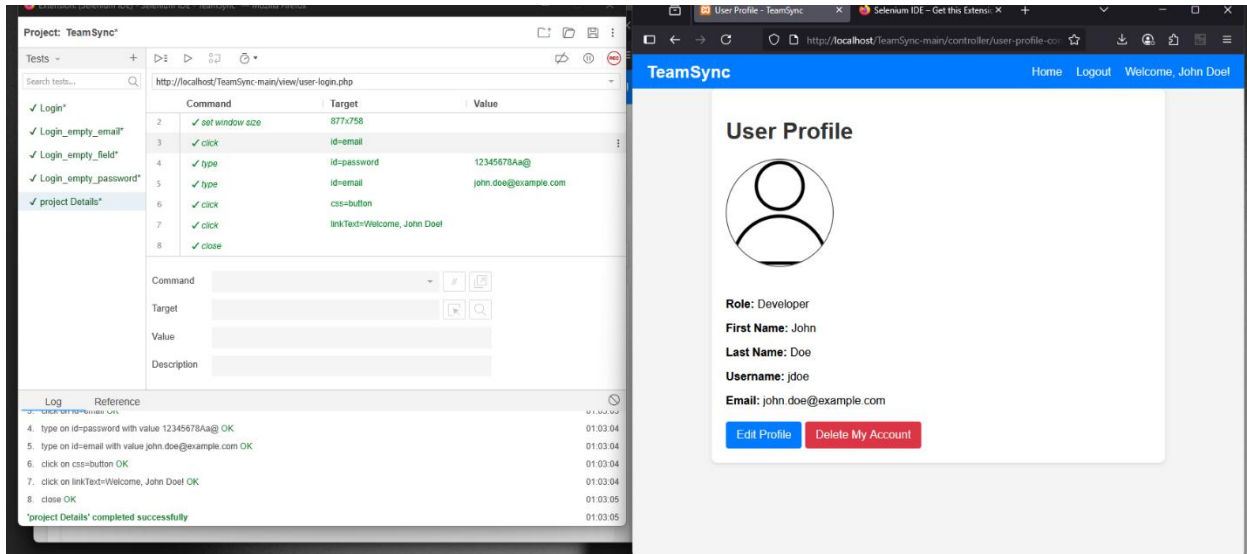**Test Case 6 – View Profile Details**
Description: Verify that the user can view complete profile details from the dashboard.
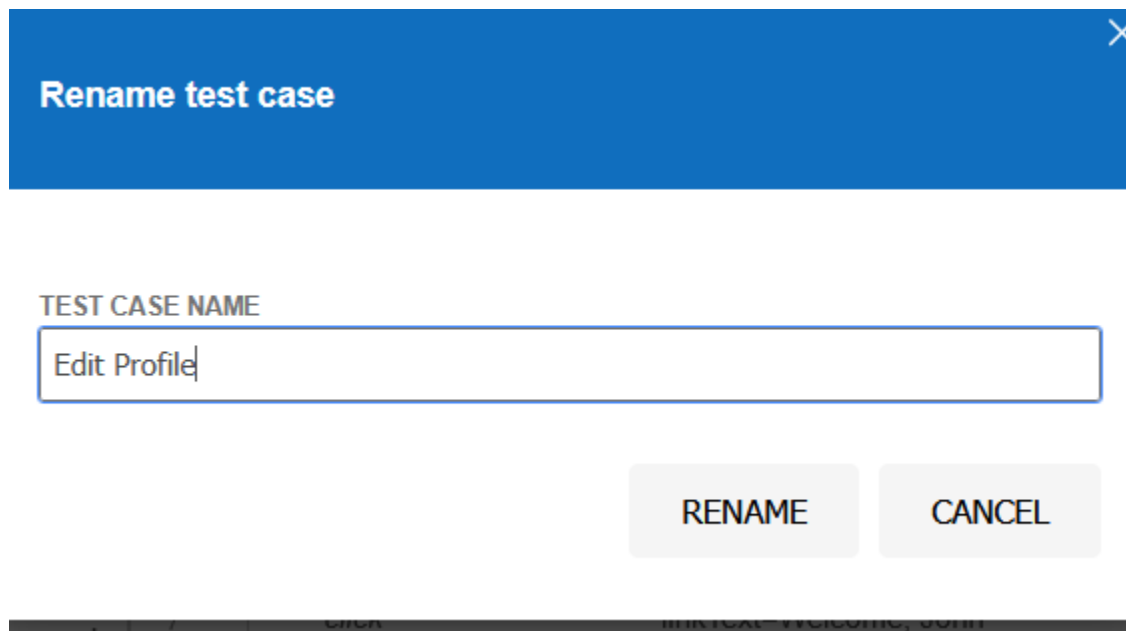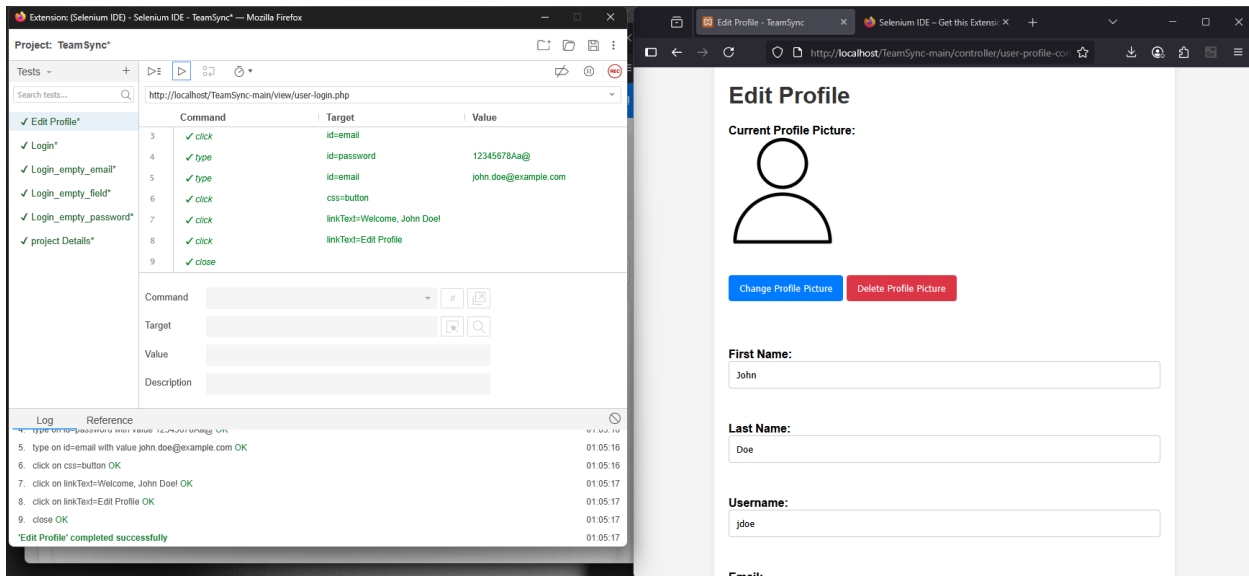**Screenshots:**

Test Case 7 – Edit Profile
Description: Verify that the user can open and edit profile information from the dashboard.
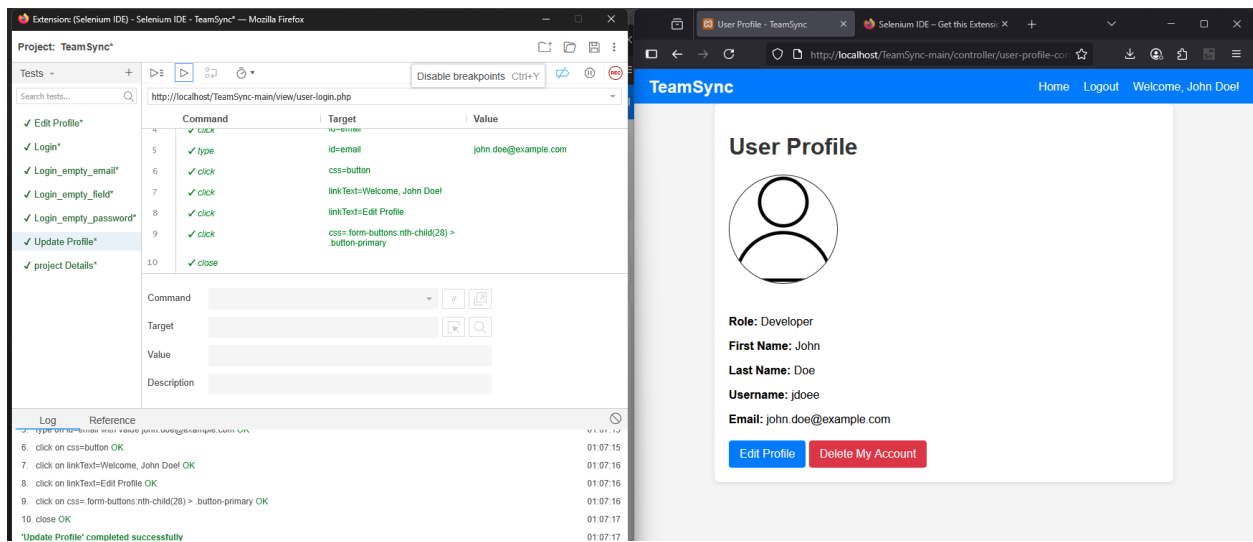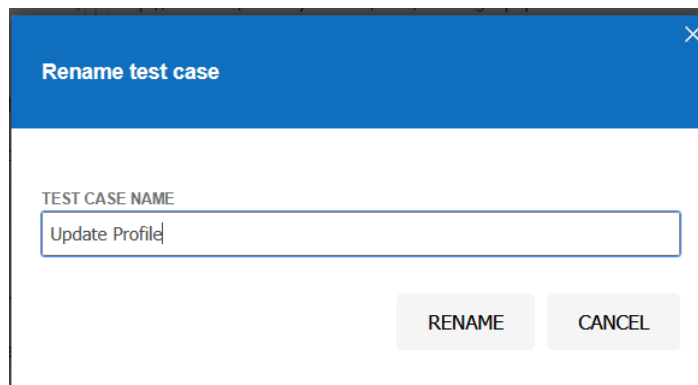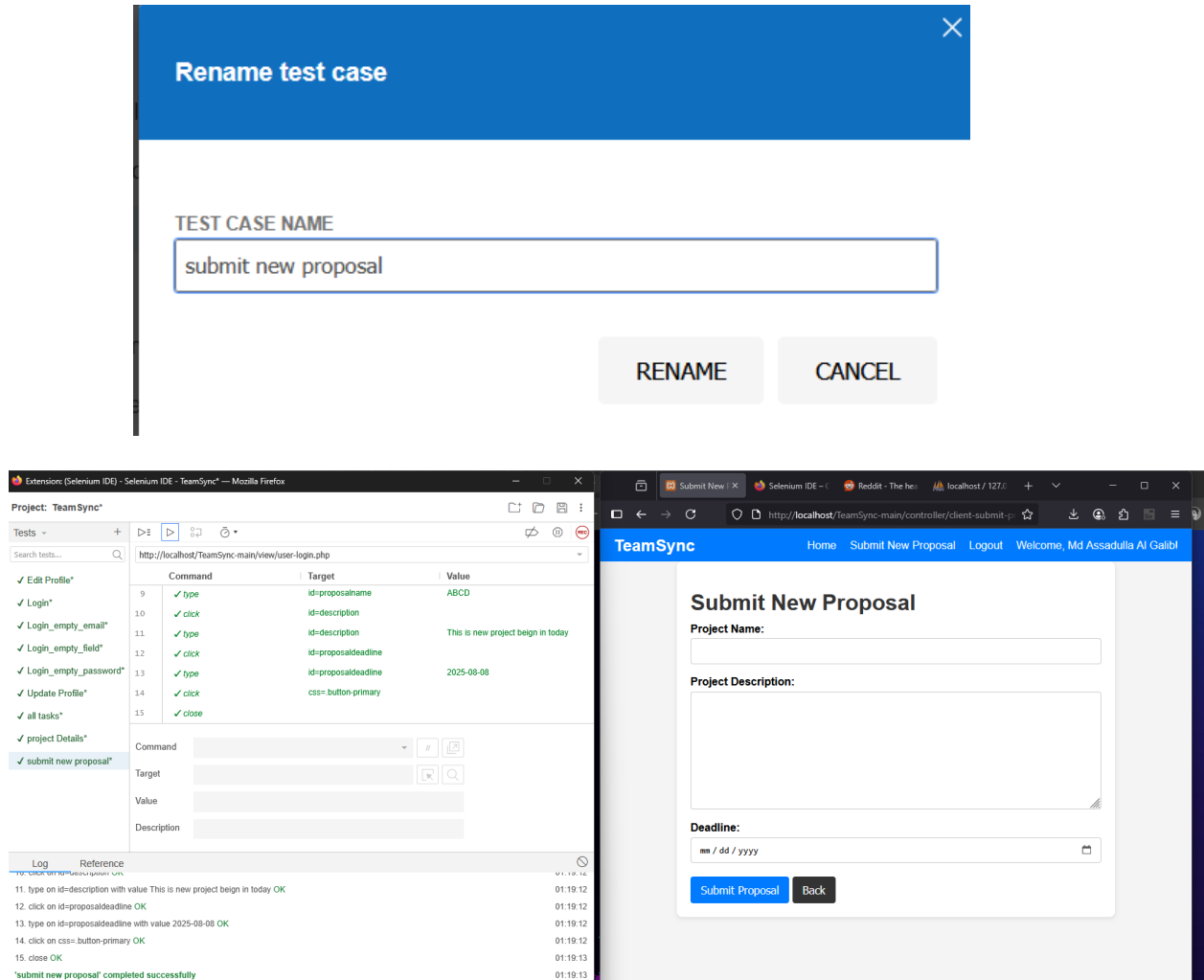
Screenshots:

Test Case 8 – Update Profile
Description: Verify that changes made to the profile are successfully updated and reflected on the dashboard.

Test Case 9 – Submit New Proposal
Description: Verify that the user can submit a new proposal and that it appears in the relevant section.
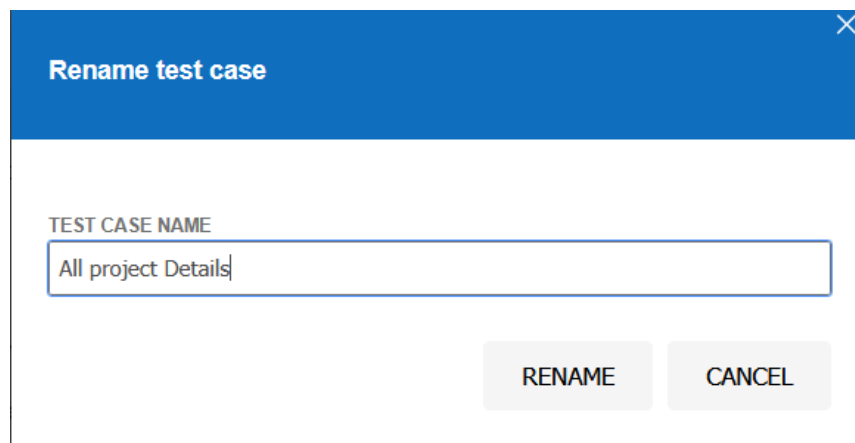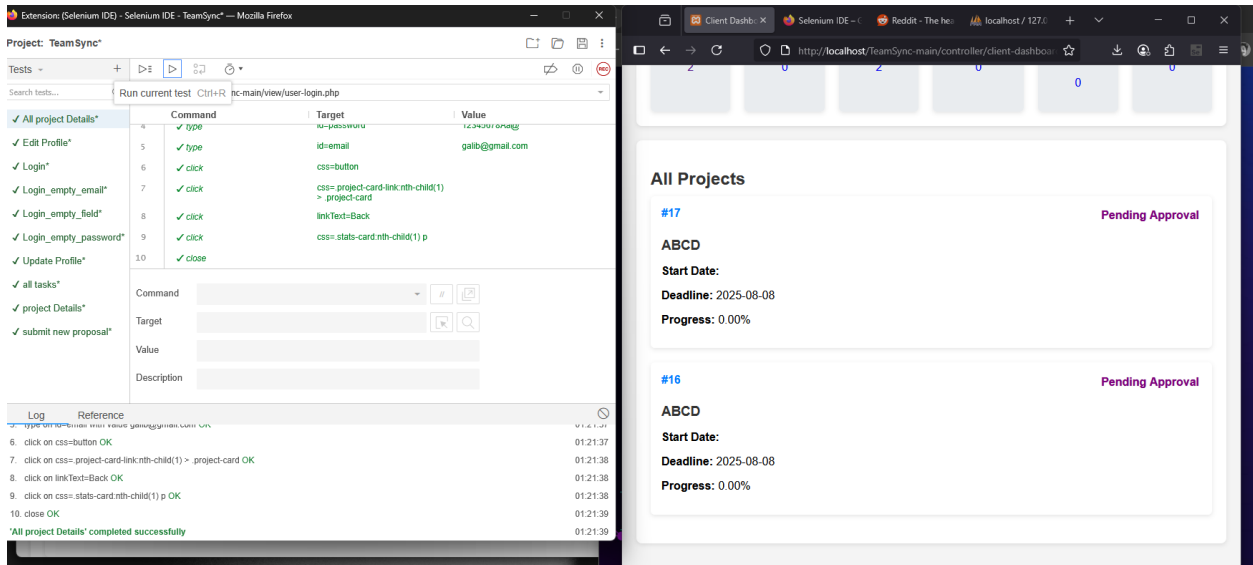**Screenshots:**

Test Case 10 – View All Project Details
Description: Verify that the system displays complete details of all projects.
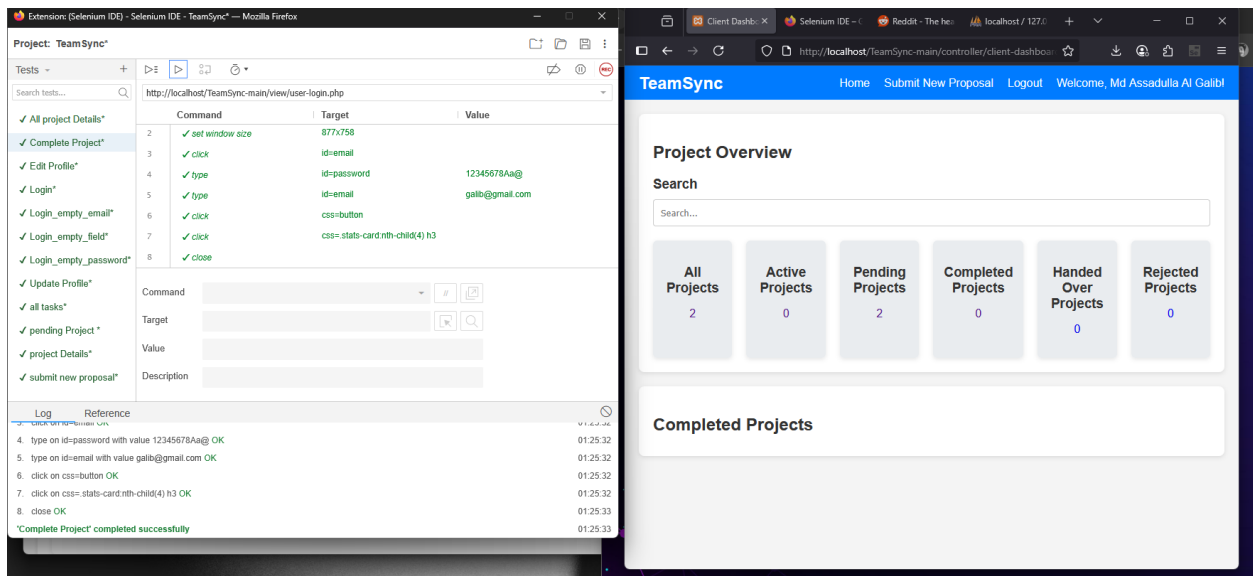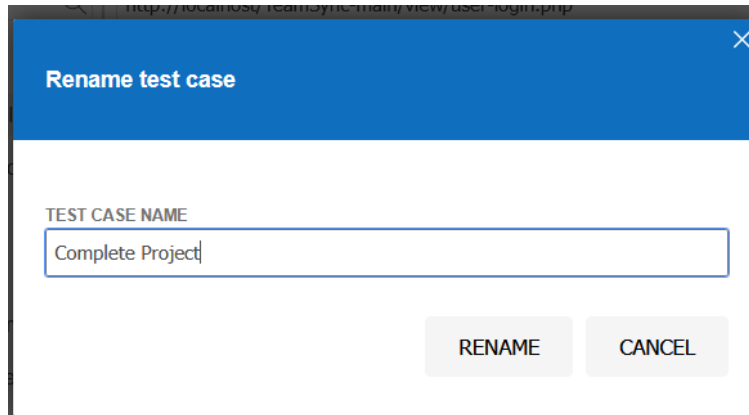**Screenshots:**

Test Case 11 – View Completed Projects

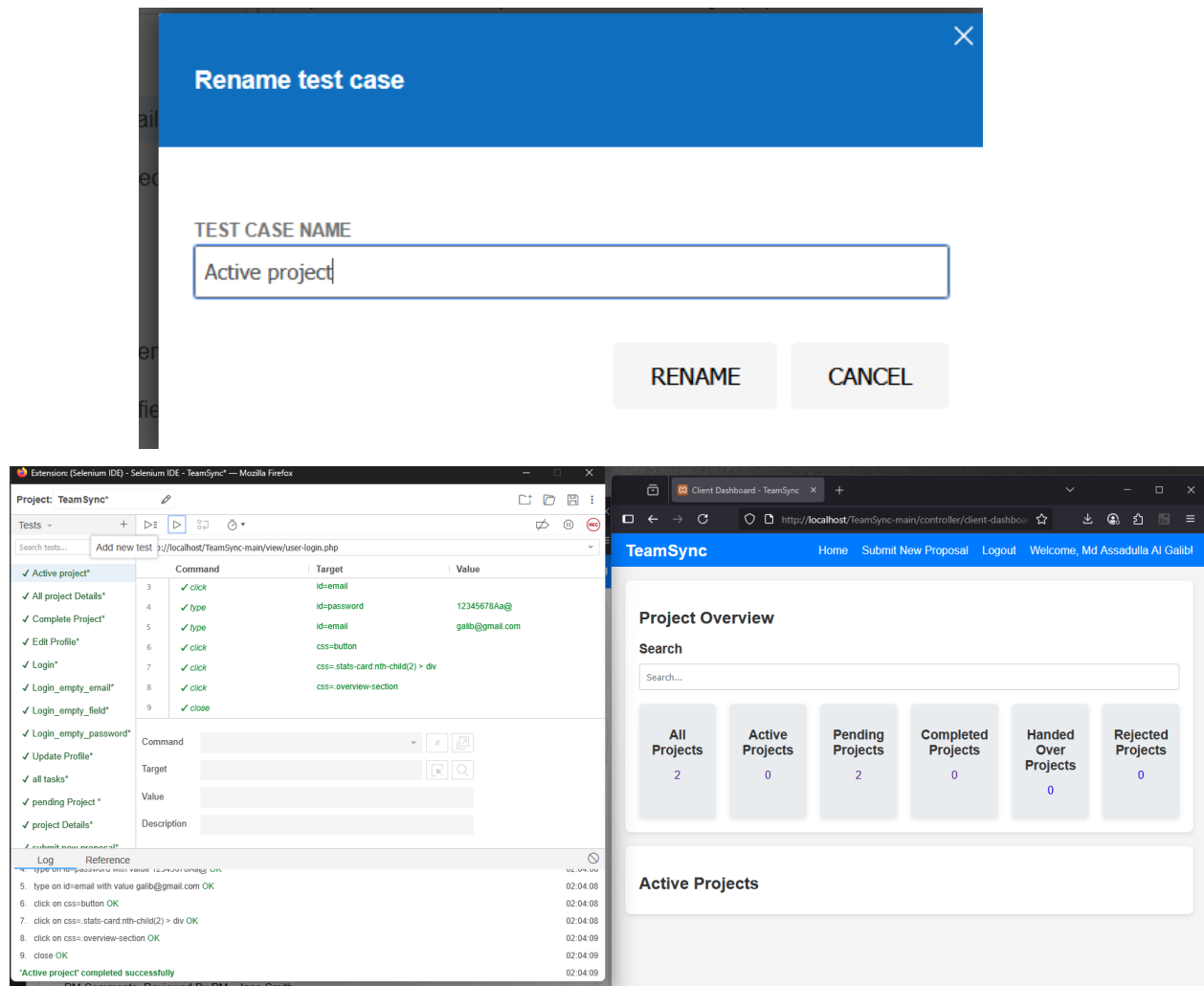**Description:** Verify that the dashboard correctly lists all completed projects.

Screenshots:

Test Case 12 – View Active Projects
Description: Verify that the dashboard correctly lists all active projects.
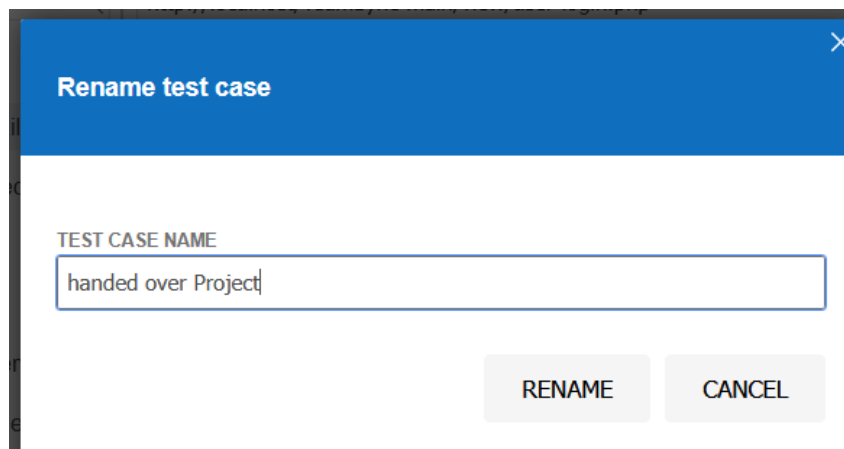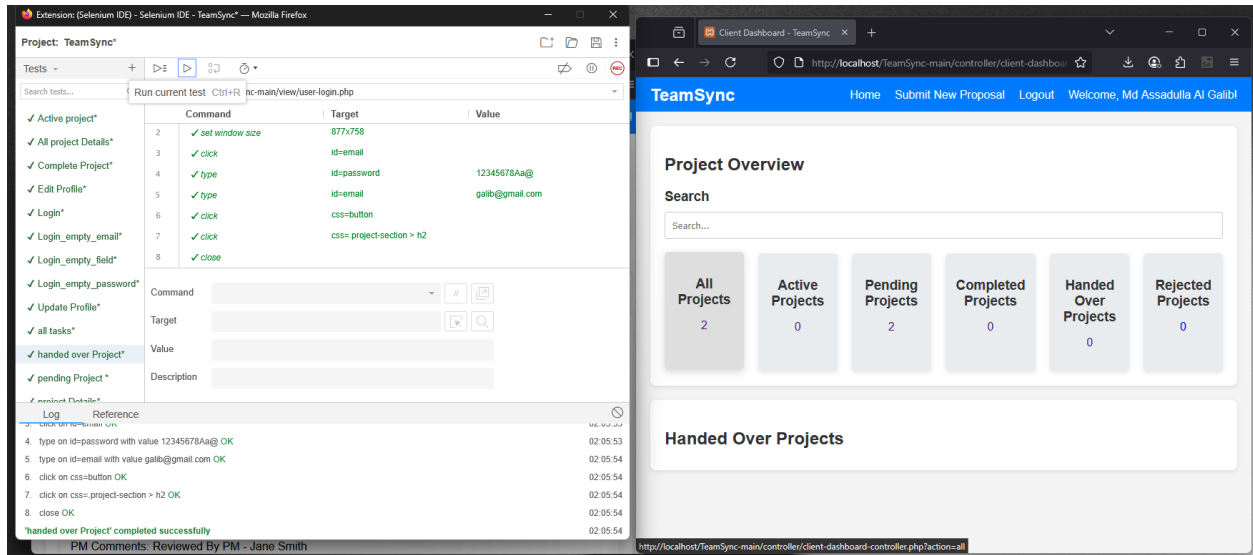**Screenshots:**

Test Case 13 – View Handed Over Projects
Description: Verify that the dashboard correctly lists all handed over projects.
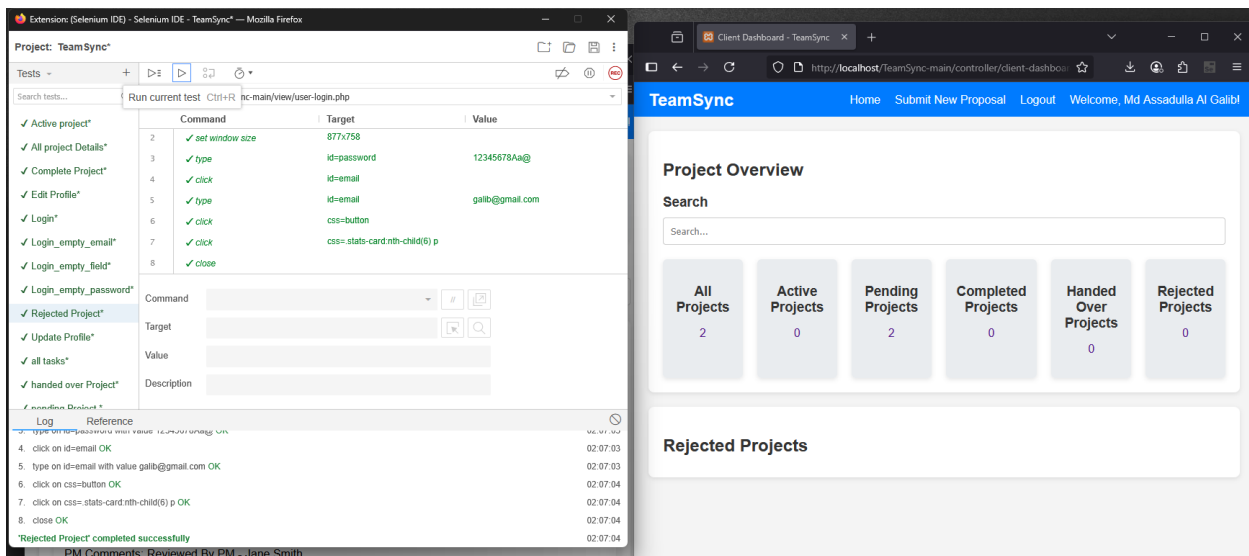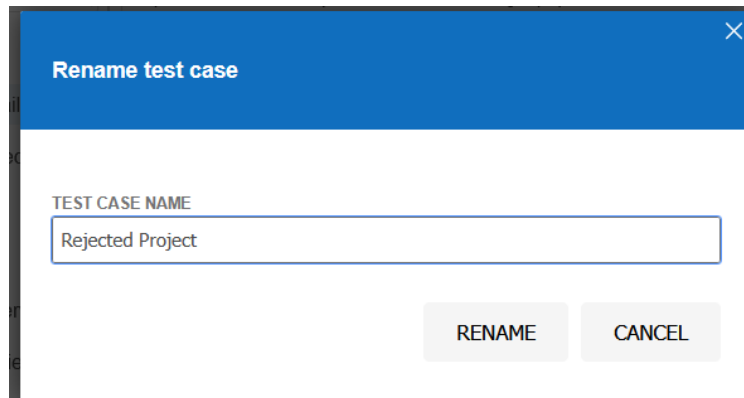**Screenshots:**

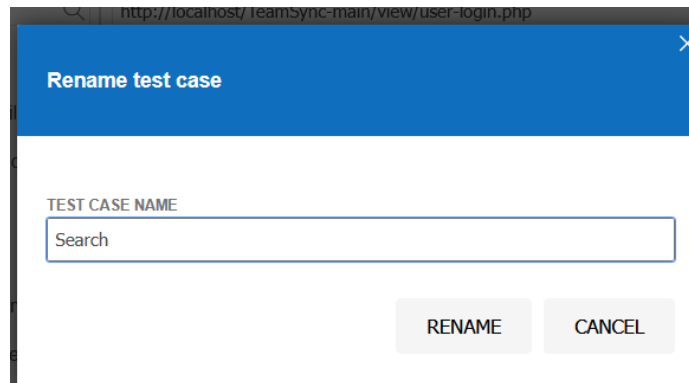**Test Case 14 – View Rejected Projects**
Description: Verify that the dashboard correctly lists all rejected projects
Screenshots:

Test Case 15 – Search Functionality
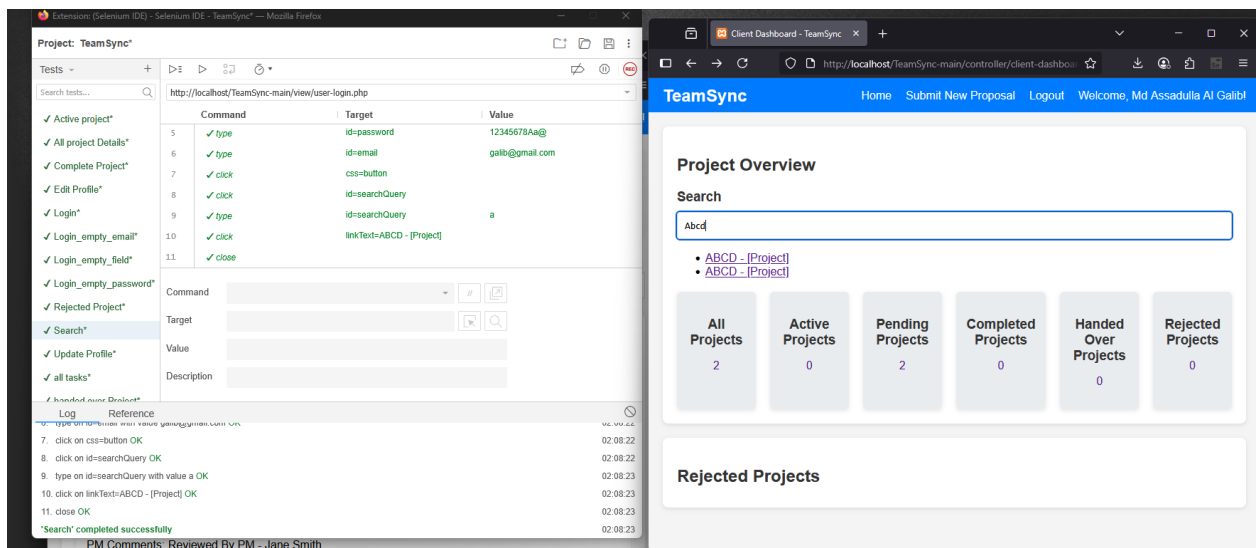**Description:** Verify that the search feature returns correct results based on the query entered by the user.

Test Case 16 – View Pending Projects
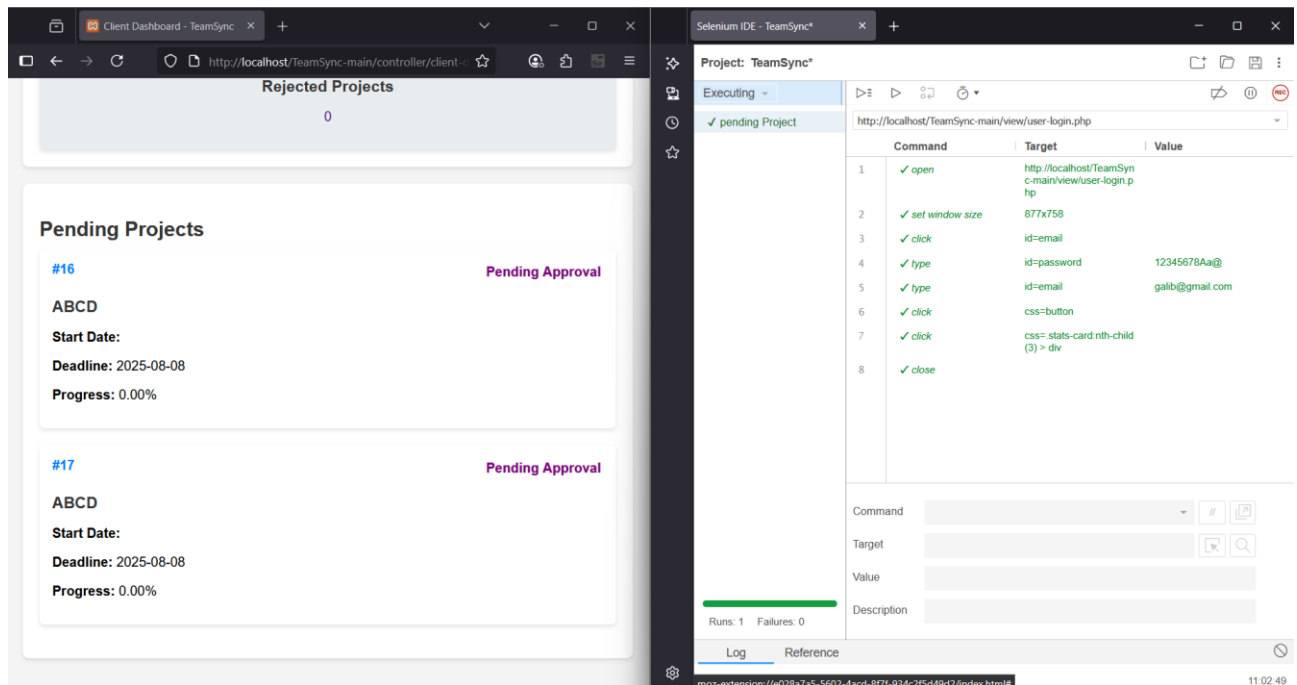**Description:** Verify that the dashboard correctly lists all pending projects.
Screenshots:

Test Case 17 – Logout Functionality
Description: Verify that logging out redirects the user to the login page and ends the active session.
Screenshots: