

Playwright Automation Demo – Student Handout

In this activity, you will create a simple login web page and demonstrate how browser automation can be used to test it using Playwright. This task is meant to give you hands-on exposure to end-to-end testing and automation concepts.

Task 1: Create a Simple Login Page

Create a basic login page using HTML. The page should contain a username input field, a password input field, and a login button. When the login button is clicked, a message such as "Login Successful" should be displayed on the page. The page should work when opened locally in a browser.

Task 2: Write a Playwright Automation Script

Write a Playwright automation script in Python that opens the login page you created and automates the login process. The script should simulate a real user by entering values into the username and password fields, clicking the login button, and verifying that the success message appears.

Task 3: Execute and Verify the Test

Run the Playwright script and ensure that it completes successfully without errors. The browser should automatically perform the login steps, and the test should confirm that the expected output is displayed on the page.

What You Should Present in the Next Class

You are expected to present your HTML login page, your Playwright automation script, and a successful execution of the test. Be prepared to walk through your code and explain how the automation works step by step.

What You Are Expected to Explain During the Presentation

During the presentation, you should explain what Playwright is, how it automates browser interactions, how your script identifies and interacts with elements on the page, and why this test is considered an end-to-end test. You should also explain how this automated approach differs from manual testing and why automation is useful in real-world applications.