

AUTOMATED TESTING WITH AI SUMMARY

In this task, we implemented automated testing of a login form using two approaches: a Python Selenium script and an AI-powered TestRigor test case. The Python script used Selenium WebDriver to simulate a user entering valid and invalid credentials into a locally hosted mock HTML login page (mock_login.html). It then validated the resulting message to determine if the login attempt passed or failed. While this method demonstrated fundamental browser automation, it required precise element locators and manual test maintenance.

To compare, we also used TestRigor, which allowed us to write test steps in plain English (e.g., “enter admin into username”) and automatically interacted with the hosted page online. TestRigor uses AI to locate UI elements and validate behavior, even if the page structure changes. It visually confirmed every step and captured performance metrics. This comparison highlighted how AI-based testing improves test coverage, reduces maintenance, and simplifies automation compared to traditional scripting.