



Data Analytics with Python

Module-3

Assignment 1: Automating a Simple Web Login with Selenium

Overview

The objective of this assignment is to help clients get hands-on experience with Selenium for web automation by automating a simple login process.

Task:

1. Setup Selenium and WebDriver:

- o Install Selenium and WebDriver for your preferred browser (e.g., Chrome).
- Write a Python script to set up the WebDriver and open a browser.

2. Navigate to a Web Page:

 Use Selenium to navigate to a login page of a dummy website (e.g., Share point or publicly available login form).

3. Locating Elements:

 Identify and locate the elements (e.g., input fields, buttons) on the web page using Selenium's finding methods like find_element_by_name(), find_element_by_id(), find_element_by_xpath(), etc.

4. Form Interaction:

 Automate the process of entering a username and password and submitting the form. Make sure to handle any potential errors like incorrect credentials or missing elements.

5. Validation:

o After submitting the form, validate that the login was successful by checking for specific elements on the landing page (e.g., a welcome message).





Deliverables:

- Python Script demonstrating the login automation process.
- A brief report on the setup, challenges, and a screenshot of the successful login.