

Selenium Automation Project: Login Functionality Testing

Project Description:

This project demonstrates automated testing of a sample login page using Selenium WebDriver and Java. The goal is to test both valid and invalid login scenarios, UI feedback, and error messages. The automation is executed on a Chrome browser with XPath locators.

Tools & Technologies Used:

- Language: Java
- Automation Tool: Selenium WebDriver
- Browser: Google Chrome
- IDE: IntelliJ IDEA or Eclipse

Automated Test Scenarios:

- Valid Login with correct credentials
- Invalid Login with wrong password
- Empty fields
- Invalid email format
- Forgot password link presence check
- Password show/hide toggle (optional)

Sample Test Script (Java + Selenium):

```
public class MyLoginAutomation {  
  
    public static void main(String[] args) {
```

```
// Probably could've externalized this path, but hardcoding for now
System.setProperty("webdriver.chrome.driver", "D:\\chrome-win64");

WebDriver driver = new ChromeDriver(); // switched name to 'driver' -

// Navigate to the test login page
driver.get("https://practicetestautomation.com/practice-test-login/");

// Fill in the login form

driver.findElement(By.id("username")).sendKeys("student");
driver.findElement(By.id("password")).sendKeys("Password123");

// Hit the login button
driver.findElement(By.id("submit")).click();

// Checking if we landed on the expected page after login
String pageAfterLogin = driver.getCurrentUrl();

// Could use contains() in case of redirects or trailing slashes, but keeping it strict for
now

if (pageAfterLogin.equals("https://practicetestautomation.com/logged-in-
successfully/")) {

    System.out.println("Successfully logged in!");

} else {

    System.out.println("Login failed. URL I ended up on: " + pageAfterLogin);

}
```

```
// Close the browser  
driver.quit();  
}  
}
```

Sample Bug Report:

Bug ID	Issue Description	Severity	Status
BUG_01	No error message for invalid login	Medium	Open
BUG_02	Forgot password link not clickable on mobile	High	Open