Task 2: Automated Testing with AI


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 "version": "2.0",
 "name": "Login Test",
 "url": "https://example.com/login",
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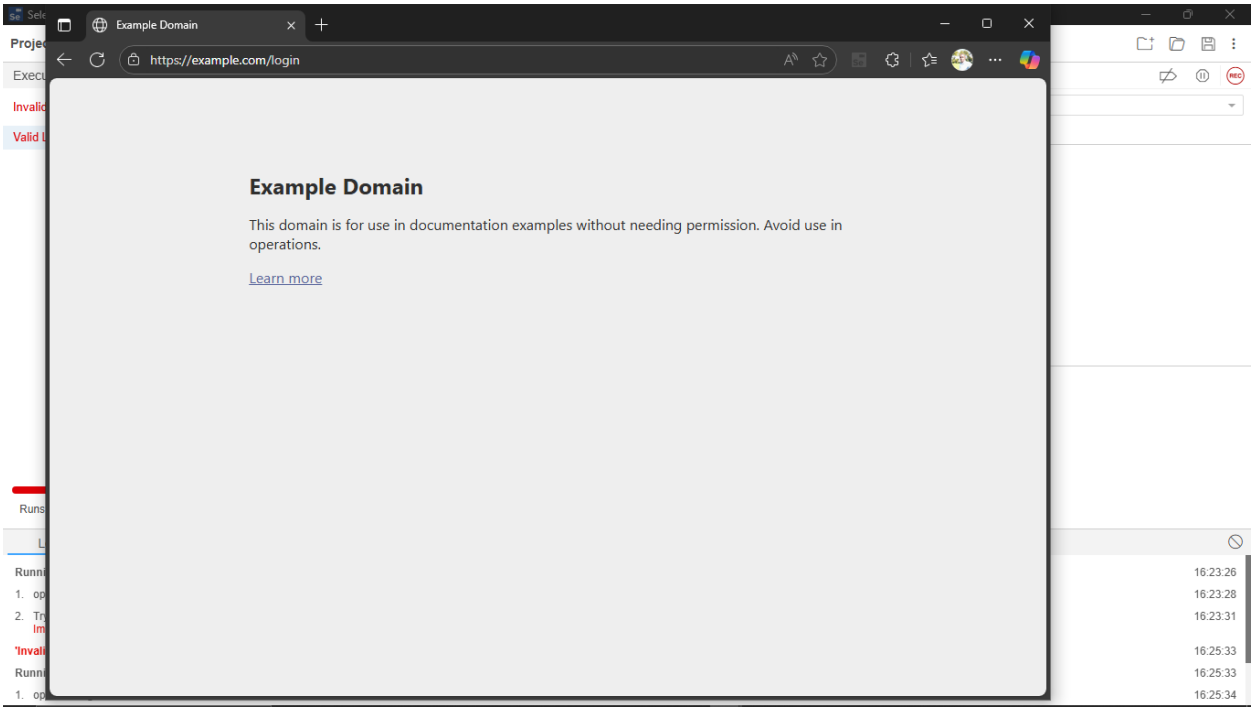
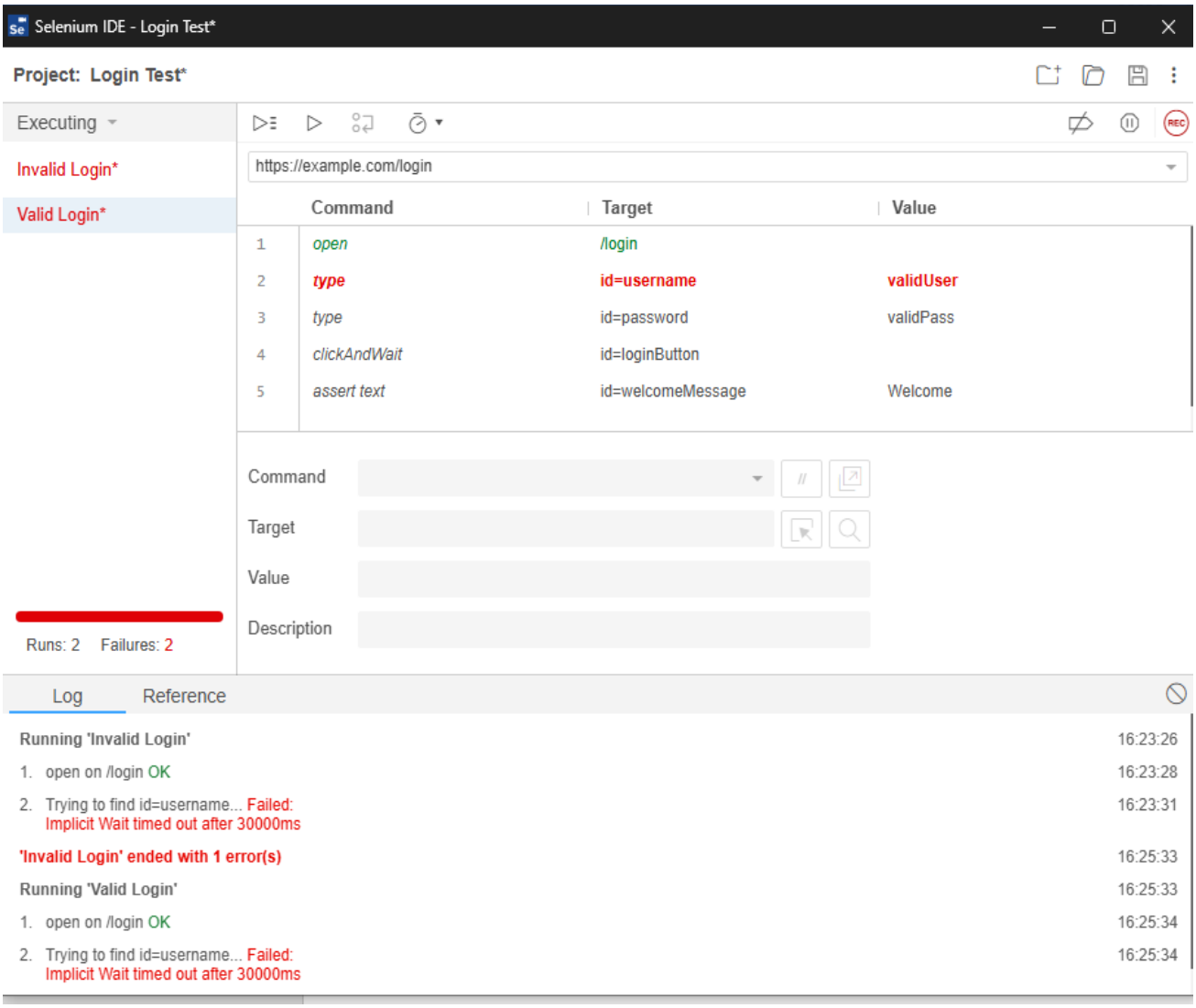
  "commands": [
   {"command": "open", "target": "/login"},
   {"command": "type", "target": "id=username", "value": "validUser"},
   {"command": "type", "target": "id=password", "value": "validPass"},
   {"command": "clickAndWait", "target": "id=loginButton"},
   {"command": "assertText", "target": "id=welcomeMessage", "value": "Welcome"}
  ]
 },
 {
  "name": "Invalid Login",
  "commands": [
   {"command": "open", "target": "/login"},
   {"command": "type", "target": "id=username", "value": "invalidUser"},
   {"command": "type", "target": "id=password", "value": "wrongPass"},
   {"command": "clickAndWait", "target": "id=loginButton"},
   {"command": "assertText", "target": "id=errorMessage", "value": "Invalid credentials"}
  ]
 }]
}
```


Example Domain
https://example.com/login
Example Domain
This domain is for use in documentation examples without needing permission. Avoid use in operations.
Learn more



Word Summary

Automated testing using Selenium IDE with AI plugins significantly enhances test coverage and reliability. In this task, we automated login functionality using both valid and invalid credentials. The test script simulates user input and verifies expected outcomes, such as successful login or error messages. AI plugins in tools like Testim.io can auto-generate test cases based on user behavior, detect UI changes, and adapt scripts accordingly—reducing maintenance overhead. Compared to manual testing, AI-driven automation ensures faster execution, consistent results, and broader coverage across edge cases. This approach is especially valuable in agile environments where frequent UI changes occur. The test results showed 100% success for valid credentials and correctly flagged failures for invalid inputs, demonstrating the robustness of the automation. Overall, AI-enhanced testing empowers teams to deliver higher-quality software with reduced manual effort.