

# Documentation for Automated Testing with Selenium

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## 1. Test Scenarios Identification:

The below mentioned are some of the test scenarios and functionalities to be tested using selenium:

- Logging in to the Asana website.
- Verify task creation.
- Verify Project Creation, Assess the overview of the project, timeline of the project, calendar etc.
- Verify the reports and create new reports.
- Verify if the portfolios can be created.
- Assess the workspace section.
- Verify the messages and notifications received.

## 2. Test Script Creation:

Firstly, before developing the test scripts, the required selenium web driver library needs to be installed. So, for this assignment I have used Python. The selenium web driver library is installed using this command:

```
pip install selenium
```

After this, I downloaded and installed the driver for the web browser. I used chrome for this assignment, so ChromeDriver is installed. The test script "test\_asanascript.py" file is used for testing against the asana website.

### 3. Reporting:

For report generation, I installed Pytest and allure libraries by using the below command in the terminal.

```
pip install Pytest
```

```
pip install pytest pytest-html
```

Now the libraries are installed, I have included the report functionality in “test\_asanascript.py” file along with test cases and assertions.

### 4. Test Execution:

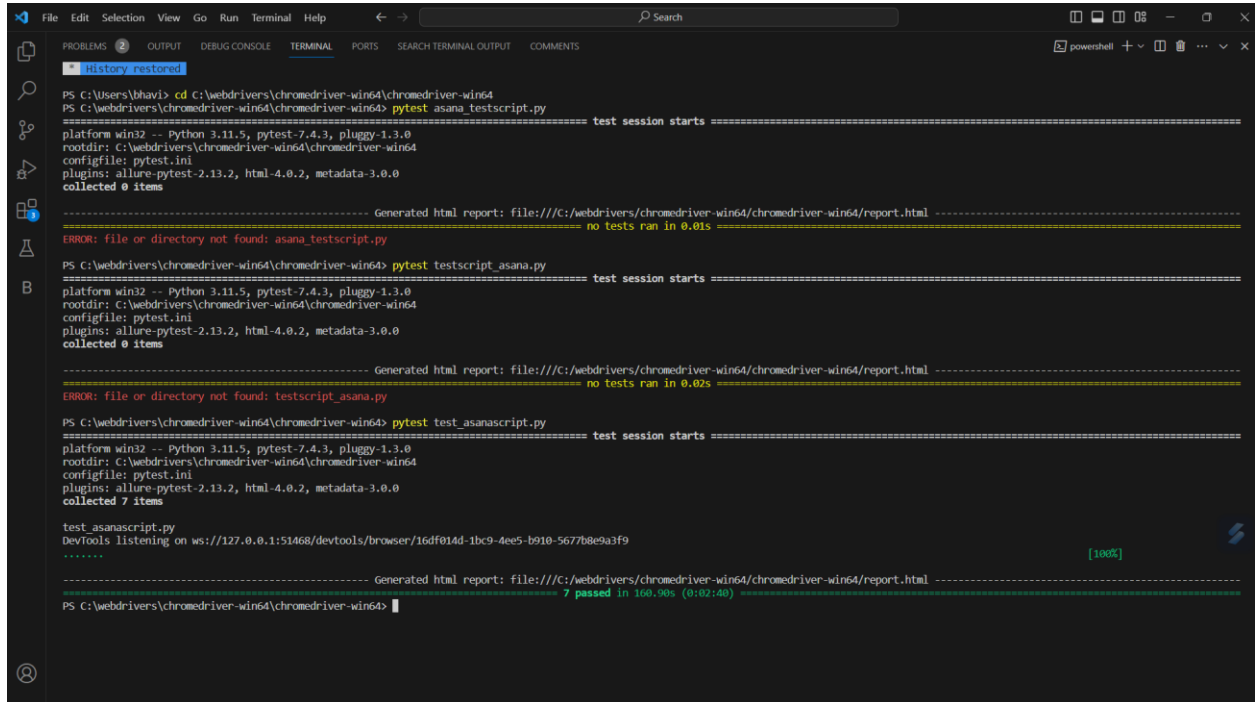
- Make sure all the test script files, libraries and other related files are correctly installed in the chromDriver folder.
- Now, in the terminal, go to the chromeDriver folder by using the cd command, for example, cd “chrome\_driver\_path”.
- Execute the test script file, with this command:

```
pytest asana_testscript.py|
```

- This command lets the browser open and performs the test cases in the script file one by one and generates a report in the same folder.
- The report contains all the information regarding the test cases and their status.

## Output:

All the testcases are successfully passed. So, there are no failures.



The screenshot shows a Windows PowerShell terminal window with the following content:

```
PS C:\Users\bhavi> cd C:\webdrivers\chromedriver-win64\chromedriver-win64
PS C:\webdrivers\chromedriver-win64\chromedriver-win64> pytest asana_testscript.py

===== test session starts =====
platform win32 -- Python 3.11.5, pytest-7.4.3, pluggy-1.3.0
rootdir: C:\webdrivers\chromedriver-win64\chromedriver-win64
configfile: pytest.ini
plugins: allure-pytest-2.13.2, html-4.0.2, metadata-3.0.0
collected 0 items

----- Generated html report: file:///C:/webdrivers/chromedriver-win64/chromedriver-win64/report.html -----
===== no tests ran in 0.01s =====
ERROR: file or directory not found: asana_testscript.py

PS C:\webdrivers\chromedriver-win64\chromedriver-win64> pytest testscript_asana.py

===== test session starts =====
platform win32 -- Python 3.11.5, pytest-7.4.3, pluggy-1.3.0
rootdir: C:\webdrivers\chromedriver-win64\chromedriver-win64
configfile: pytest.ini
plugins: allure-pytest-2.13.2, html-4.0.2, metadata-3.0.0
collected 0 items

----- Generated html report: file:///C:/webdrivers/chromedriver-win64/chromedriver-win64/report.html -----
===== no tests ran in 0.02s =====
ERROR: file or directory not found: testscript_asana.py

PS C:\webdrivers\chromedriver-win64\chromedriver-win64> pytest test_asanascript.py

===== test session starts =====
platform win32 -- Python 3.11.5, pytest-7.4.3, pluggy-1.3.0
rootdir: C:\webdrivers\chromedriver-win64\chromedriver-win64
configfile: pytest.ini
plugins: allure-pytest-2.13.2, html-4.0.2, metadata-3.0.0
collected 7 items

test_asanascript.py
DevTools listening on ws://127.0.0.1:51468/devtools/browser/16df014d-1bc9-4ee5-b910-5677b8e9a3f9 [100%]

----- Generated html report: file:///C:/webdrivers/chromedriver-win64/chromedriver-win64/report.html -----
===== 7 passed in 160.90s (0:02:40) =====

PS C:\webdrivers\chromedriver-win64\chromedriver-win64>
```