**1. Project Setup:**

Create a new project directory.

Set up version control (e.g., Git).

Choose Python and required tools (Selenium, PyTest).

**2. Install Required Packages:**

Set up a virtual environment (optional).

Install packages: Selenium, PyTest, pytest-html, pytest-xdist, openpyxl, allure-pytest.

pip install selenium

pip install -U pytest

pip install pytest-html

pip install pytest-xdist

pip install openpyxl

pip install allure-pytest

**3. Folder Structure:**

pageObjects/

|

testCases/

|

utilities/

|

TestData/

|

Configurations/

|

Logs/

|

Screenshots/

|

Reports/

**4. Page Object Model (POM):**

Create page object classes.

Define locators and methods.

**5. Test Cases:**

Write test cases using PyTest.

Use fixtures for setup/teardown.

Implement assertions.

**6. Utilities:**

Implement logging, screenshots, data handling.

**7. Test Data and Configurations:**

Prepare test data in Excel.

Store configurations in files.

**8. HTML Reports and Allure Reports:**

Configure PyTest for HTML reports.

Integrate Allure for comprehensive reports.

**9. Parallel Execution:**

Configure pytestxdist for parallel execution.

**10. Continuous Integration (CI/CD):**

Set up CI pipelines (e.g., Jenkins, GitHub Actions).

**11. Documentation:**

Document usage and setup instructions.

Provide guidelines for writing test cases.

**12. Maintenance and Updates:**

Regularly update the framework.

Address issues and bugs.