(python, selenium, PyTest, Page Object Model, HTML Reports)

**Step 1: Create New Project And Install Required Packages/Plugins**

* Selenium : selenium libraries
* Pytest : Python UnitTest framework
* PyTest\_HTML : PyTest HTML Reports
* Pytest:xdist : Run Tests Parallel
* Openpyxl : MS excel support
* Allure pytest : To generate allure reports

**Step 2: Create A Folder Structure**

**Project Name**

|

pageObjects(package)

|

TestCases(package)

|

Unittest(packages)

|

TestData(folder)

|

configurations(folder)

|

Logs(folder)

|

Screenshot(folder)

|

Reports

|

Run .bat

**Step 3 : Automating Login Test Cases**

* Create login page object class under “pageobjects”
* Create logintest under “testcases”
* Create conftest.py under “testcases”

**Step 4 : Capture Screen Shot On Failures**

* Update login test with screenshot under testcases

**Step 5: Read Common Values From Ini File**

* Add config.init file in configuration folder
* Create readrepository.py utility file under utilities package to read common data
* Replace hard coded values in login test case

**Step 6 : Adding Logs To Test Case**

* Add customlogger.py under utilities package
* Add logs to login test case

**Step 7 : Run Tests On Desired Browser/Cross Browser/Parallel**

* + Update contest.py with required fixtures which will accepts command line argument(browser name).
  + Pass browser name as argument in command line
  + To run tests on desired browser.
* **# type if you want to run testcases on diff browser**
* # pytest -v -s Hybridframework/nopcommerceApp/testCases/test\_login.py --browser firefox
* **# type if you want to run testcases on diff browser**  
  # pytest -v -s Hybridframework/nopcommerceApp/testCases/test\_login.py --browser chrome
* **# To run test cases parallel**
* # pytest -v -s -n=2 Hybridframework/nopcommerceApp/testCases/test\_login.py --browser firfoxe

**Step 8: Generate Pytest Html Reports**

* Update conftest.py with pytest hooks
* To generate HTML report run below comand

sunil@sunil-Vostro-3558:~/Documents/seleniumpython$ pytest -v -s -n=2 --html=Hybridframework/nopcommerceApp/Reports/report.html Hybridframework/nopcommerceApp/testCases/test\_login.py --browser chrome

**step 9: Automating data driven test cases**

* prepare test data in excel sheet place the excel file inside the testdata folder
* create “excelutils.py” utility class under utilities package.
* Create LoginDataDrivenTest under testcases
* Run the test case

**Step 10: Adding new test cases**

* Add new customer
* Search customer by email and name

**Step 11:**

* Grouping tests
* Grouping markers and add markers to every test method
* @pytest\_mark\_sanity
* @pytest\_mark\_regression
* Add marker entries in pytest.ini file
* Pytest.ini

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(pytest)

Markers=sanity

Regression

Select groups at run time

-m “sanity”

-m “regression”

-m “sanity and regression”

-m “sanity or regression”

Run command:

Pytest –s –v –m “sanity or regression” –html=/reports/report.html testcases/ --browser chrome

**Step 12: run tests in command prompt & run.bat file**

12.1: Create run.bat file

Pytest –s –v –m “sanity” --html=/reports/report.html testcases/ --browser chrome

12.2: Open command prompts an administrator and then run.bat file

**Step 13: push the code to Git and github repository**

1st round

Initial steps(only one time)

1)git init 🡪create an empty git repository(Local repository)

2)git remote add origin

Before doing commit first time we need to execute these below commands

Git config --global user,name “sunil”

Git config –global user.email [sunil@gmail.com](mailto:sunil@gmail.com)

3)git status

4)git add –A # add all the files to staging area

5)git commit –m “comment”

6)git push –u origin master

2nd round

NOTE:

Push the code to git and github repository

1. create local git repository for your project

path: /home/sunil/Documents/selenium\_projects/nopcommerceApp

1. initialize the git repository in the given path

git init

1. after create a one more repository in github
2. after take link then connect with your local repository with github repository(global repository)

git remote add origin <https://github.com/sunilkumar-git14/nopcommerceApp.git>

1. Before doing commit first time we need to execute these below commands

Git config --global user.name “sunil”

Git config –global user.email sunilkumarsk978742@gmail.com

1. Checking status of files : which file is commited or not

git status

1. Add all the files to staging area

Git add –A

1. Commit the code into repository(local repo)

Git commit –m “first commit”

1. Push the code from git 🡪github repository

Git –u origin master

How to pull the code from git hub repository

* Add file in github repository
* Git pull
* Then check file in local repository(git)