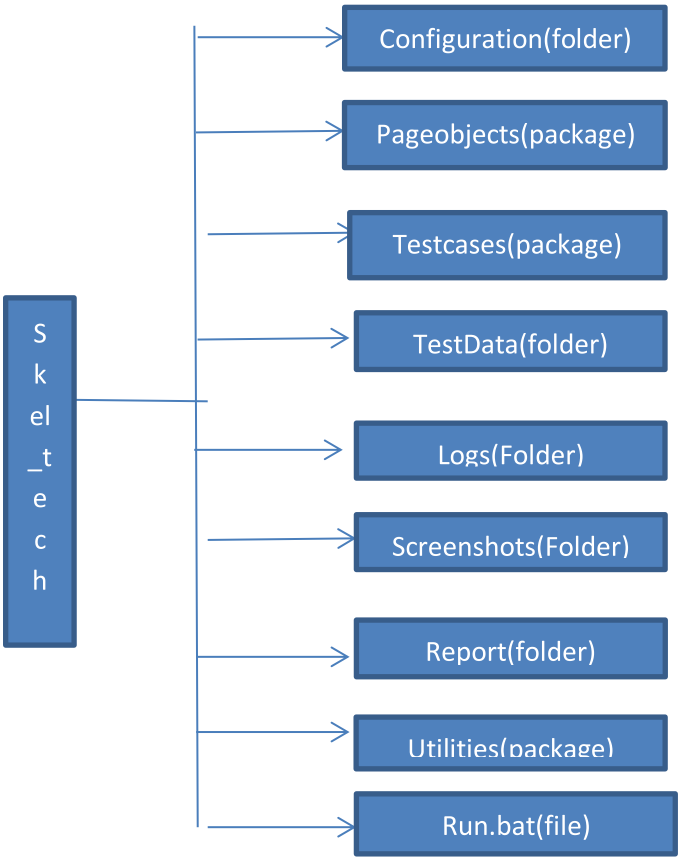
Sakel_tech_Assignment

Pre requisites before working on Selenium Python Automation

1. Install Python latest version 3.11 given path of the same to environment variables
2. Install Pycharm
3. Specific Driver for different Browser of selenium once you download,extract them in filder…zip to unzip
   Chrome: https://chromedriver.chromium.org/downloads
4. Create project folder name(sakel_tech_assignment) and add interpreter
5. Install required Packages/Plugins on your system:
   Selenium:Selenium Libraries
   Pytest: Python Framework
   Pytest-html:Pytest HTML Reports
   Pytest-xdist:Run Tests Parallel
   Openpyxl:MS Excel Support
   Allure-pytest:togenerate allure reports
   Pyautoguit:automatically showing screenshot
6. Create Folder Structure:



Execution of required test Scenarios

7. Requirements:

1. Test Scenario 1: User Login

○ Description: Automate the login functionality of the application.

○ Steps:

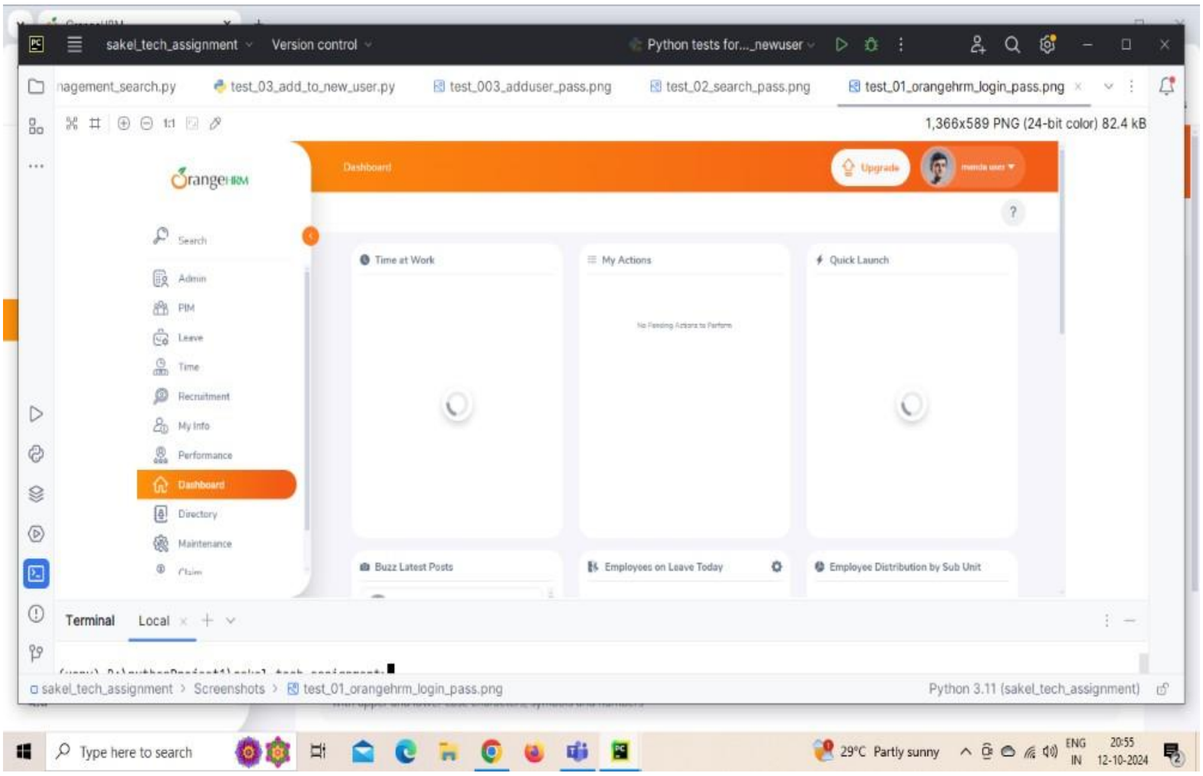
1. Navigate to the login page.
2. Enter a valid username and password.
3. Click on the "Login" button.
4. Verify successful login by checking the presence of a user-specific element.

Run the test by using commond:

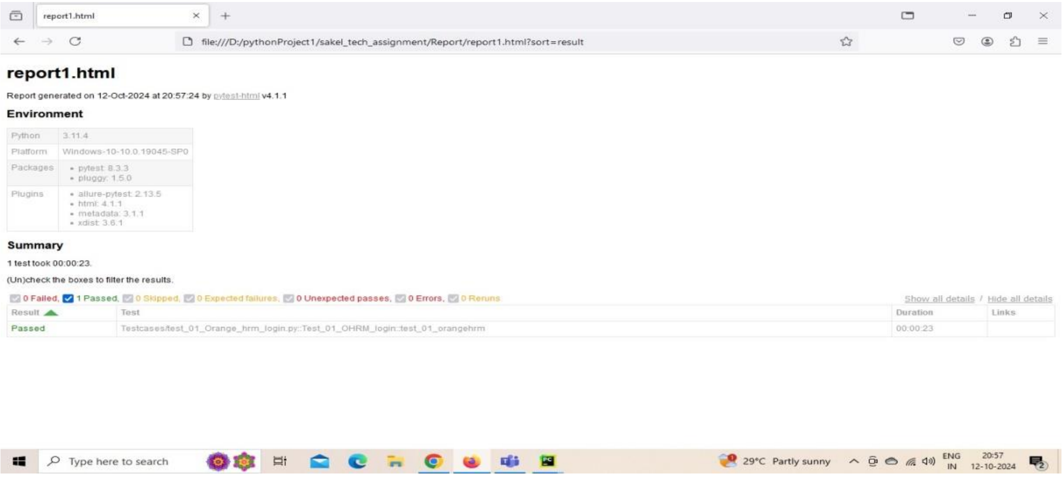
Pytest -v -s “Testcases/test_01_Orange_hrm_login.py” --htm=”Report\report1.html” –alluredir=”D:\pythonProject1\sakel_tech_assignment\allure-results”

For Allure Report: allure serve “D:\pythonProject1\sakel_tech_assignment\allure-results”

Screenshot for Validation of orangehrm login:Login Sucessfully



Screenshot for html report of orange login:



file:///D:/pythonProject1/sakel_tech_assignment/Report/report1.html?sort=result

report1.html

Report generated on 12-Oct-2024 at 20:57:24 by pytest-html v4.1.1

Environment

Python	3.11.4
Platform	Windows-10-10.0.19045-SP0
Packages	• pytest: 8.3.3 • pluggy: 1.5.0
Plugins	• allure-pytest: 2.13.5 • html: 4.1.1 • metadata: 3.1.1 • xdist: 3.6.1

Summary

1 test took 00:00:23.

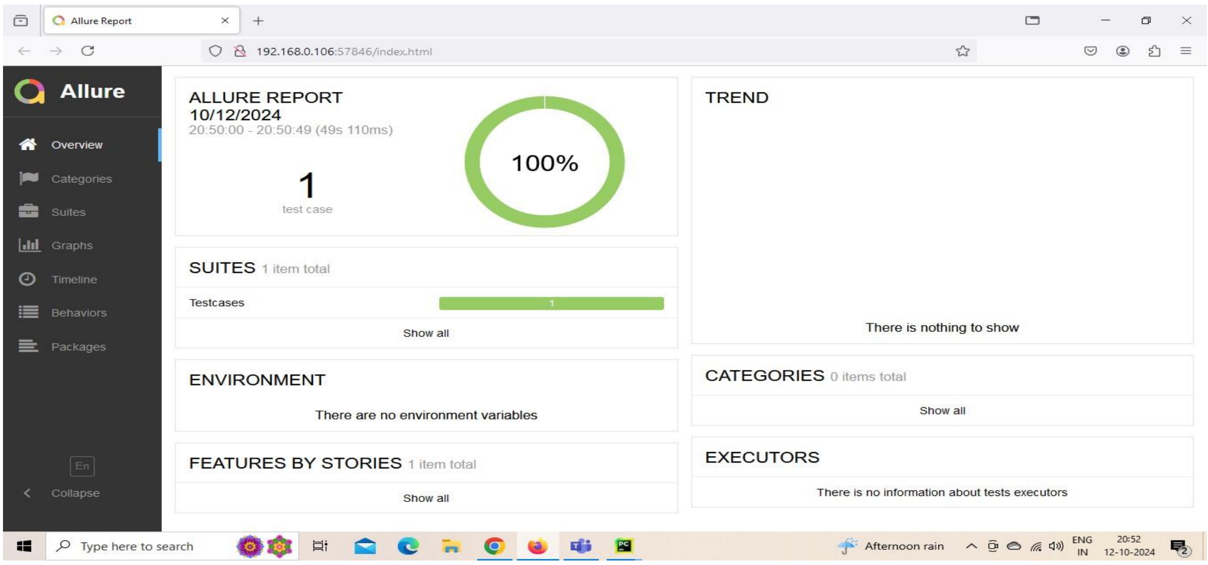
(Un)check the boxes to filter the results.

☑ 0 Failed, ☑ 1 Passed, ☑ 0 Skipped, ☑ 0 Expected failures, ☑ 0 Unexpected passes, ☑ 0 Errors, ☑ 0 Reruns

Show all details / Hide all details

Result	Test	Duration	Links
Passed	Testcases/test_01_Orange_hrm_login.py::Test_01_OHRM_login::test_01_orangehrm	00:00:23	

Screenshot for Allure Report:



192.168.0.106:57846/index.html

ALLURE REPORT 10/12/2024
20:50:00 - 20:50:49 (49s 110ms)

1 test case

100%

SUITES 1 item total

Testcases	1

Show all

ENVIRONMENT

There are no environment variables

FEATURES BY STORIES 1 item total

Show all

TREND

There is nothing to show

CATEGORIES 0 items total

Show all

EXECUTORS

There is no information about tests executors

2.Test Scenario 2: User Management Search

○ Description: Automate the search functionality.

○ Steps:

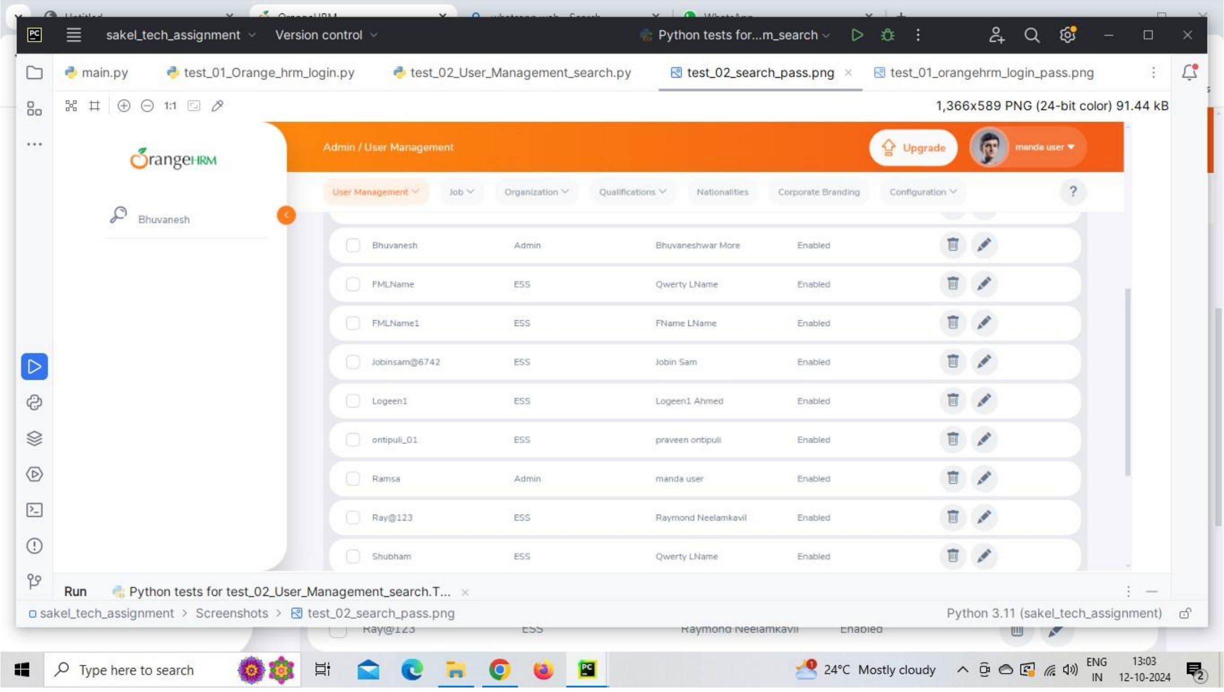
1. Ensure the user is logged in.
2. Search for a user (e.g., "Bhuvaneshwar") using the search bar.
3. Verify that search results are displayed and contain the search keyword.

4. Validate that the user details page can be opened from the search results.

Run the test by command

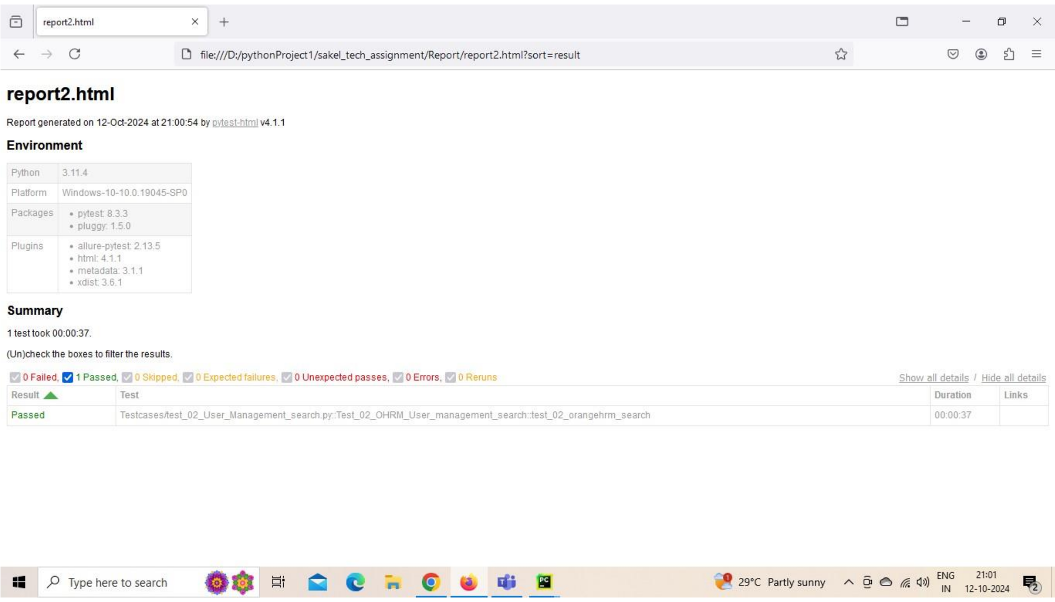
pytest –v –s “Testcases/test_02_User_Management_search.py” –html=”Report\report2.html” –alluredir=”D:\pythonProject1\sakel_tech_assignment\allure-results”

Screenshot for user searched successfully:



Bhuvanesh	Admin	Bhuvaneshwar More	Enabled
FMLName	ESS	Qwerty LName	Enabled
FMLName1	ESS	FName LName	Enabled
Jobinsam@6742	ESS	Jobin Sam	Enabled
Logeen1	ESS	Logeen1 Ahmed	Enabled
ontipuli_01	ESS	praveen ontipuli	Enabled
Ramsa	Admin	manda user	Enabled
Ray@123	ESS	Raymond Neelamkavil	Enabled
Shubham	ESS	Qwerty LName	Enabled

HTML report for user search:



report2.html
file:///D:/pythonProject1/sakel_tech_assignment/Report/report2.html?sort=result
Type here to search
29°C Partly sunny
ENG IN
21:01
12-10-2024

report2.html

Report generated on 12-Oct-2024 at 21:00:54 by pytest-html v4.1.1

Environment

Python	3.11.4
Platform	Windows-10-10.0.19045-SP0
Packages	• pytest: 8.3.3 • pluggy: 1.5.0
Plugins	• allure-pytest: 2.13.5 • html: 4.1.1 • metadata: 3.1.1 • xdist: 3.6.1

Summary

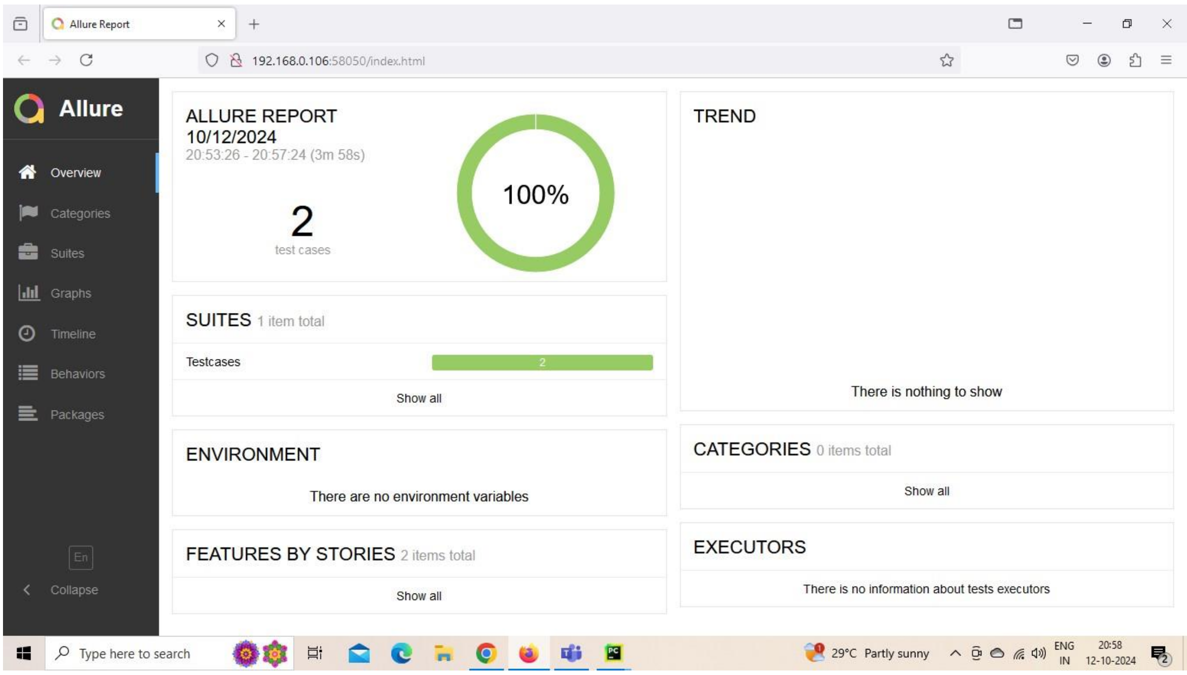
1 test took 00:00:37.

(Un)check the boxes to filter the results.

☑ 0 Failed, ☑ 1 Passed, ☑ 0 Skipped, ☑ 0 Expected failures, ☑ 0 Unexpected passes, ☑ 0 Errors, ☑ 0 Reruns   Show all details / Hide all details

Result ▲	Test	Duration	Links
Passed	Testcases/test_02_User_Management_search.py::Test_02_OHRM_User_management_search::test_02_orangehrm_search	00:00:37	

Allure report for user search:



ALLURE REPORT 10/12/2024
20:53:26 - 20:57:24 (3m 58s)

2 test cases

100%

TREND

There is nothing to show

SUITES 1 item total

Testcases 2

ENVIRONMENT

There are no environment variables

CATEGORIES 0 items total

FEATURES BY STORIES 2 items total

EXECUTORS

There is no information about tests executors

3. Test Scenario 3: Add to new user

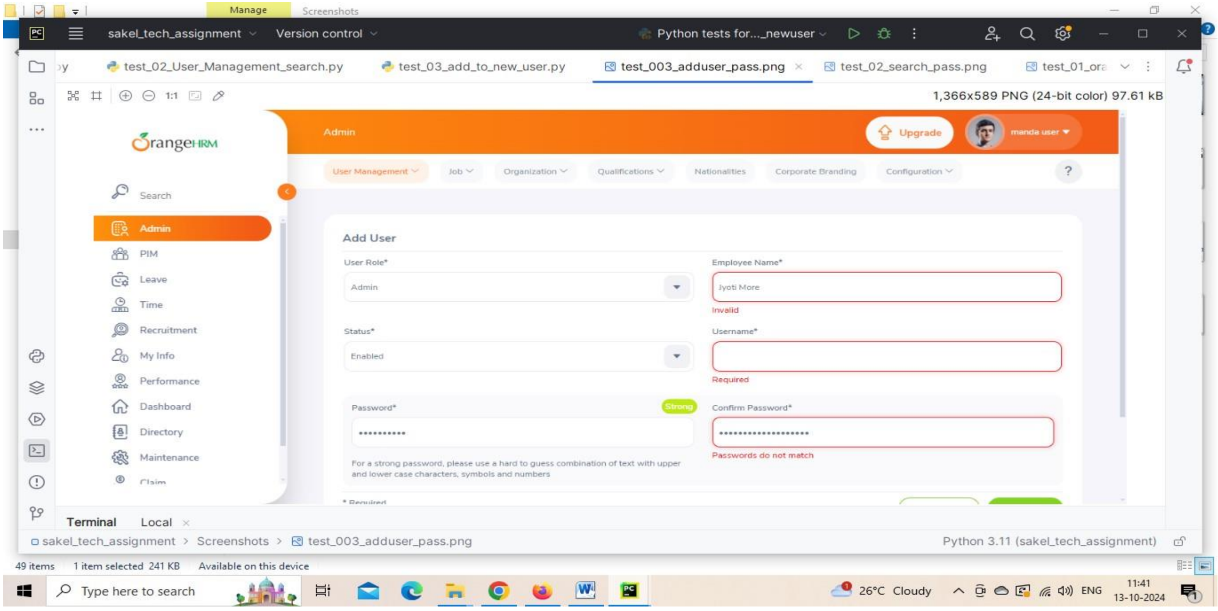
- Description: Automate the process of adding a user.
- Steps:
  1. Search for a user and navigate to its details page.
  2. Add the user.
     1. User Role - Admin
     2. Employee Name - {{name}}
     3. Status - Enable
     4. Username - {{usernmae}}
     5. Password and Confirm Pass - Qwerty@123

Explaination:

Run the test by command:

```
Pytest –v –s “Testcases/test_03_add_to_new_user.py” –html=”Report\report3.html” –
alluredir=”D:\pythonProject1\sakel_tech_assignment\allure-results”
```

Screenshot of Add to new user:



1,366x589 PNG (24-bit color) 97.61 kB

Add User

User Role*: Admin

Employee Name*: Jyoti More

Invalid

Status*: Enabled

Username*:

Required

Password*: ••••••••••

Confirm Password*: ••••••••••••••••••

Passwords do not match

For a strong password, please use a hard to guess combination of text with upper and lower case characters, symbols and numbers

* Required

sakel_tech_assignment > Screenshots > test_003_adduser_pass.png

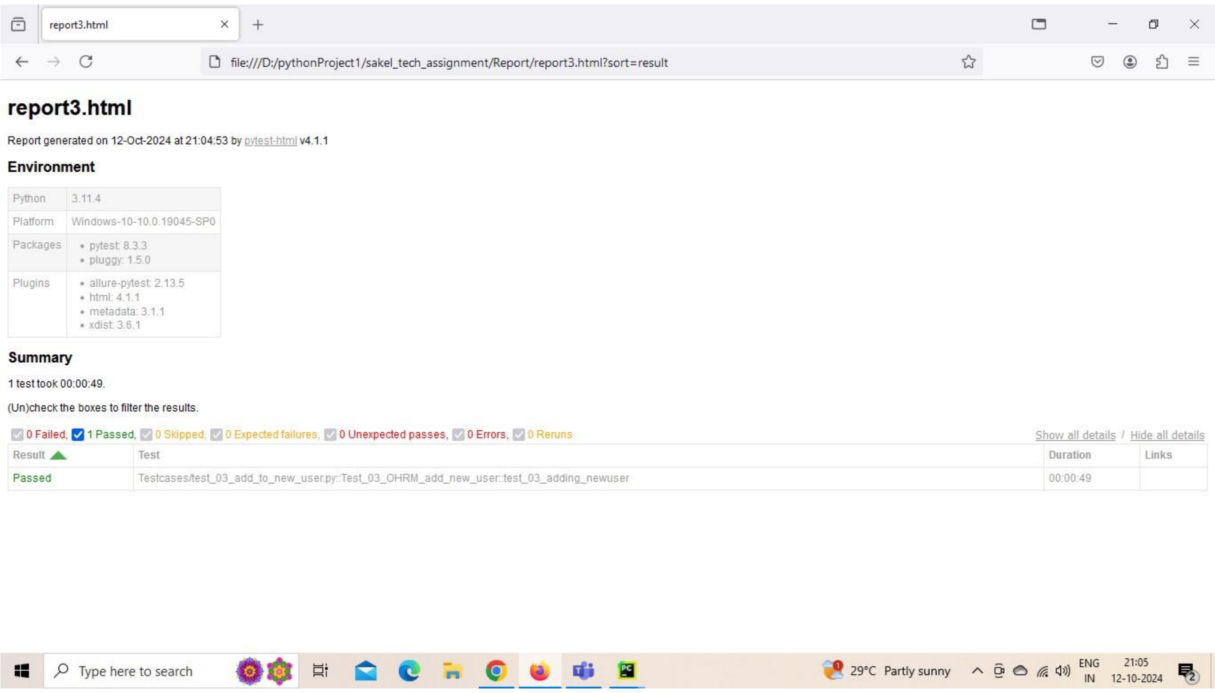
Python 3.11 (sakel_tech_assignment)

49 items 1 item selected 241 KB Available on this device

26°C Cloudy

11:41
13-10-2024

Screenshots for HTML Report:



file:///D:/pythonProject1/sakel_tech_assignment/Report/report3.html?sort=result

report3.html

Report generated on 12-Oct-2024 at 21:04:53 by pytest-html v4.1.1

Environment

Python	3.11.4
Platform	Windows-10-10.0.19045-SP0
Packages	• pytest: 8.3.3 • pluggy: 1.5.0
Plugins	• allure-pytest: 2.13.5 • html: 4.1.1 • metadata: 3.1.1 • xdist: 3.6.1

Summary

1 test took 00:00:49.

(Un)check the boxes to filter the results.

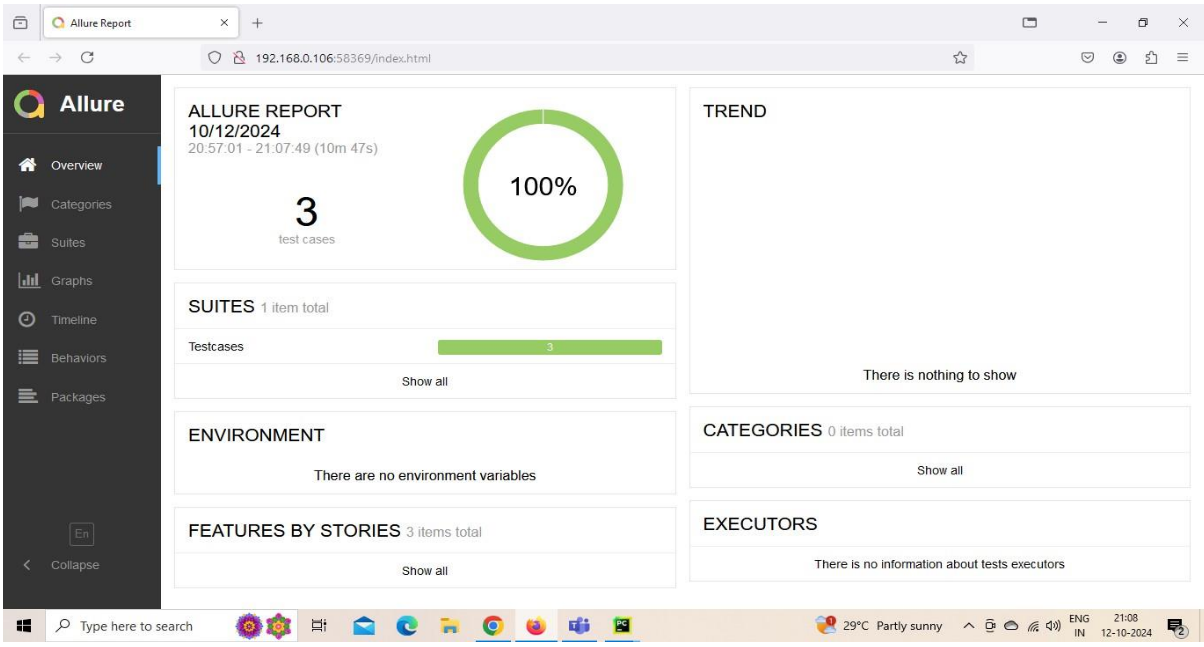
☑ 0 Failed, ☑ 1 Passed, ☑ 0 Skipped, ☑ 0 Expected failures, ☑ 0 Unexpected passes, ☑ 0 Errors, ☑ 0 Reruns

Result ▲	Test	Duration	Links
Passed	Testcases/test_03_add_to_new_user.py::Test_03_OHRM_add_new_user::test_03_adding_newuser	00:00:49	

29°C Partly sunny

21:05
12-10-2024

Allure Report for add user:



ALLURE REPORT
10/12/2024
20:57:01 - 21:07:49 (10m 47s)

3
test cases

TREND

There is nothing to show

SUITES 1 item total

Testcases 3

Show all

ENVIRONMENT

There are no environment variables

CATEGORIES 0 items total

Show all

FEATURES BY STORIES 3 items total

Show all

EXECUTORS

There is no information about tests executors

4. Test Scenario 4: API Testing

○ Description: Test the API endpoint that provides product details.

○ Steps: 1. Send a GET request to the https://opensourcedemo.orangehrmlive.com/web/index.php/

api/v2/admin/users?limit=50&offset=0&sortField=u.userName&sortOrder=ASC endpoint.

2. Verify that the response status code is 200.

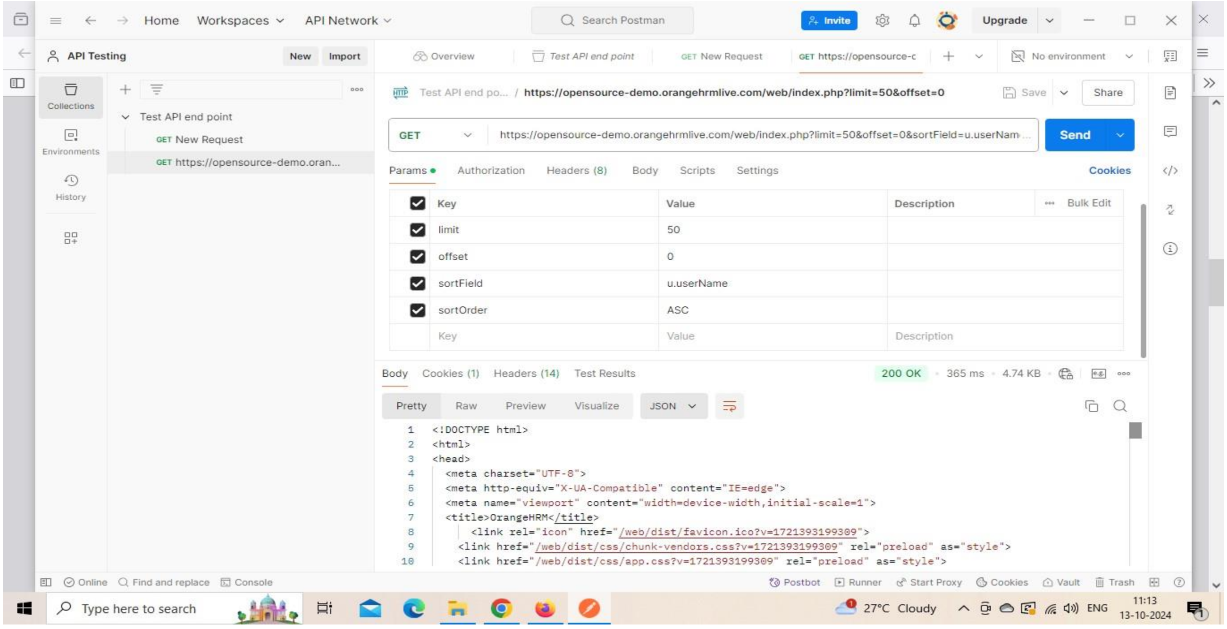
3. Validate the structure of the response JSON, ensuring it contains user details like username, role, status, etc.

4. Verify the correctness of the data against the UI.

Explaination:

1. Open the Postman by entering username and password
2. Click on workspaces-Create workspace-Blank workspaces-next-enter name of workspace-create
3. Create Collection: click on + icon - Blank Collection-Enter the name-create
4. Add Request in collection
5. Enter the URL and select GET request
6. Save and click on send
7. Validate the Responses: status code,time and size

Screenshot validation of status code 200 OK



Test API end po... / https://opensource-demo.orangehrmlive.com/web/index.php?limit=50&offset=0

GET https://opensource-demo.orangehrmlive.com/web/index.php?limit=50&offset=0&sortField=u.userNam...

☑	Key	Value	Description
☑	limit	50	
☑	offset	0	
☑	sortField	u.userName	
☑	sortOrder	ASC	
	Key	Value	Description

200 OK · 365 ms · 4.74 KB

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width,initial-scale=1">
  <title>OrangeHRM</title>
      <link rel="icon" href="/web/dist/favicon.ico?v=1721393199309">
    <link href="/web/dist/css/chunk-vendors.css?v=1721393199309" rel="preload" as="style">
    <link href="/web/dist/css/app.css?v=1721393199309" rel="preload" as="style">
```