**Documentation & Reports**

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**Tools & Frameworks used**

Programming Language: Python

Framework: Pytest

IDE: PyCharm, Visual Studio Code

Task 1 : Automate API calls (POST/GET) using python

Package used: json, requests, jsonpath

API URL =http://restapi.adequateshop.com/api/authaccount/registration

METHOD=POST

**Source Code:**

*#importing modules*

*from* email *import* header, message

*import* requests

*import* jsonpath

*import* json

*#API\_URL FOR CREATE USER*

*#METHOD=POST*

url = "http://restapi.adequateshop.com/api/authaccount/registration"

*#creating class*

class User:

    def \_\_init\_\_(*self*, *name*,*email*, *password*):

*self*.name = *name*

*self*.email = *email*

*self*.password = *password*

*#create object*

user1 = User('Lincoln', 'lincoln12ds43@nepal.com','Hello123')

*#convert to JSON string*

loginDetails = json.dumps(user1.\_\_dict\_\_)

headers = {"Content-Type": "application/json; charset=utf-8"}

*#sending post request*

res = requests.post(url,loginDetails,*headers*=headers)

print(res.content)

*#fetching data from json response*

json\_res = json.loads(res.text)

message=jsonpath.jsonpath(json\_res,'message')

*## validating response message*

*if* message[0]=='success':

    print("Test Passed")

*else*:

    print("Test Failed")

**Output:**

$ C:/Users/bhatt/AppData/Local/Programs/Python/Python310/python.exe d:/freelance/pytest/registeUser.py

b'{"code":0,"message":"success","data":{"Id":148282,"Name":"Lincoln","Email":"lincoln12ds43@nepal.com","Token":"f8b55f46-a0cf-41a2-b31e-60961a891eac"}}'

Test Passed

**API URL=**https://reqres.in/api/users?page=2

METHOD=GET

**Source Code:**

*import* pytest

*import* requests

*#API\_URL*

*#METHOD=GET*

url = "https://reqres.in/api/users?page=2"

*#sending get request*

res = requests.get(url)

print(res.content)

*#validating status code  and  this can also check by assert function*

*if* res.status\_code==200:

    print("Test Passed")

*else*:

    print("Test Failed")

**Output:**

$ C:/Users/bhatt/AppData/Local/Programs/Python/Python310/python.exe d:/freelance/pytest/GetUsersList.py

b'{"page":2,"per\_page":6,"total":12,"total\_pages":2,"data":[{"id":7,"email":"michael.lawson@reqres.in","first\_name":"Michael","last\_name":"Lawson","avatar":"https://reqres.in/img/faces/7-image.jpg"},{"id":8,"email":"lindsay.ferguson@reqres.in","first\_name":"Lindsay","last\_name":"Ferguson","avatar":"https://reqres.in/img/faces/8-image.jpg"},{"id":9,"email":"tobias.funke@reqres.in","first\_name":"Tobias","last\_name":"Funke","avatar":"https://reqres.in/img/faces/9-image.jpg"},{"id":10,"email":"byron.fields@reqres.in","first\_name":"Byron","last\_name":"Fields","avatar":"https://reqres.in/img/faces/10-image.jpg"},{"id":11,"email":"george.edwards@reqres.in","first\_name":"George","last\_name":"Edwards","avatar":"https://reqres.in/img/faces/11-image.jpg"},{"id":12,"email":"rachel.howell@reqres.in","first\_name":"Rachel","last\_name":"Howell","avatar":"https://reqres.in/img/faces/12-image.jpg"}],"support":{"url":"https://reqres.in/#support-heading","text":"To keep ReqRes free, contributions towards server costs are appreciated!"}}'

Test Passed

Task 2 : Automate API calls (POST/GET) using python (pytest framework)

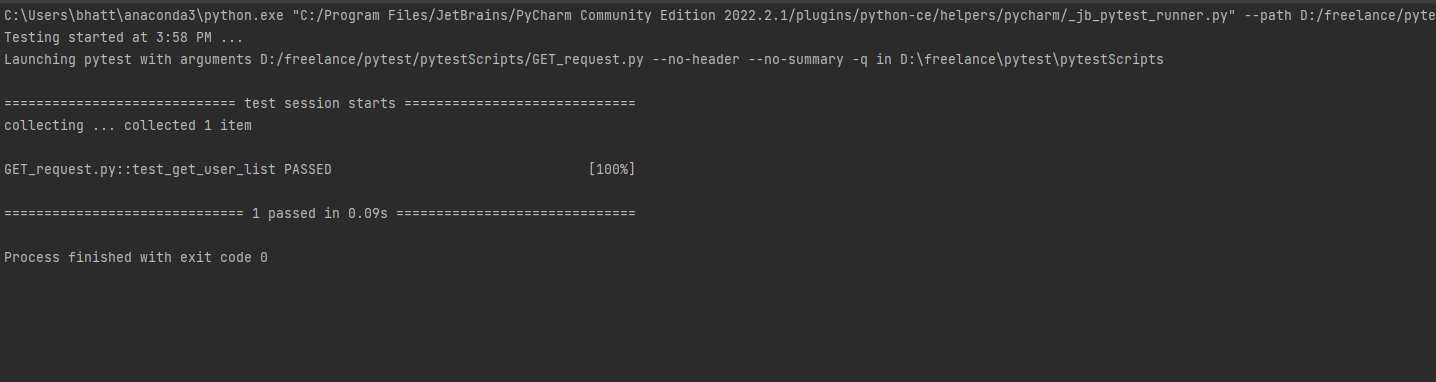
API URL= https://reqres.in/api/users?page=2"

METHOD = GET

Source Code:

#importing modules  
import requests  
def test\_get\_user\_list():  
 response = requests.get("https://reqres.in/api/users?page=2")  
  
 # Validate response headers and body contents, e.g. status code.  
 assert response.status\_code == 200

**Output:**



METHOD: POST

url="http://restapi.adequateshop.com/api/authaccount/registration"

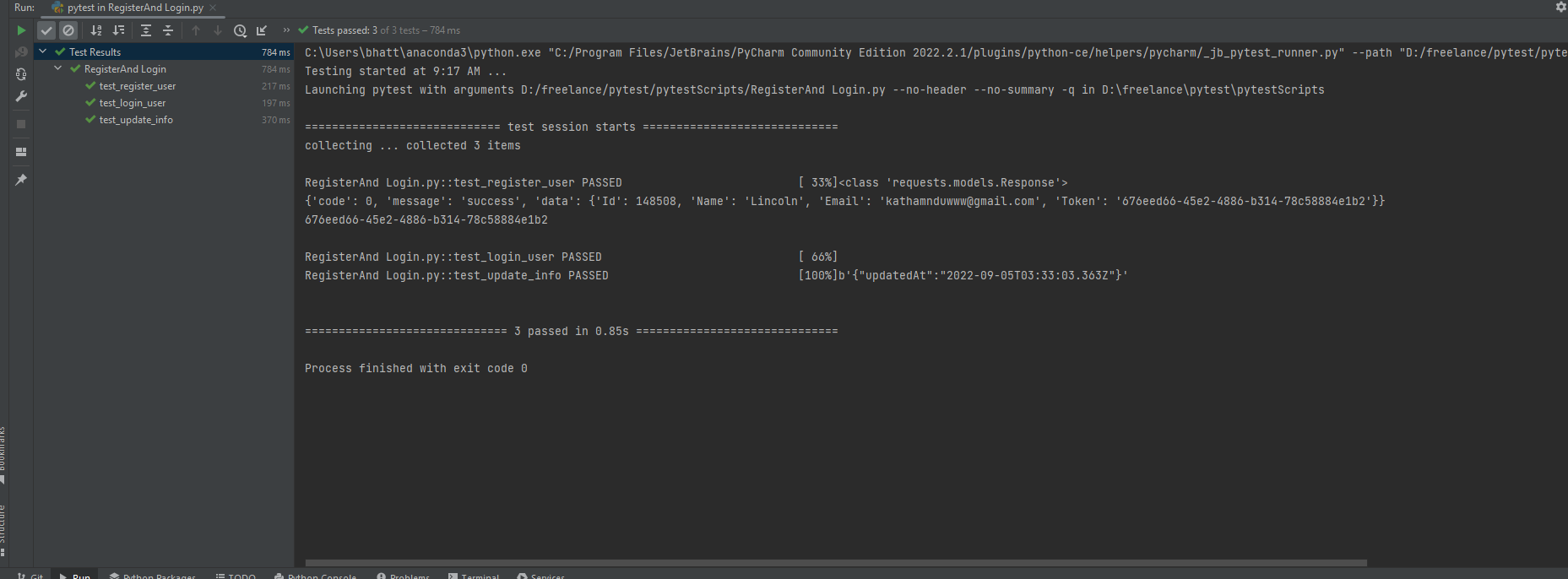
i.e for api for registration

url ="http://restapi.adequateshop.com/api/authaccount/login"

i.e api for login

Source Code:

#importing modules  
import requests  
import json  
import pytest  
  
def test\_register\_user():  
 url="http://restapi.adequateshop.com/api/authaccount/registration"  
  
 data = {  
 'name':"Lincoln",  
 'email':'laddffffdasdsd1ddd1sddddd123o1@gmail.com',  
 'password':'123456'  
 }  
 register\_data = json.dumps(data)  
 headers = {"Content-Type": "application/json; charset=utf-8"}  
  
  
 # sending post request  
 res = requests.post(url,register\_data, headers=headers)  
 # print(res.content)  
 #validating status code  
 print(type(res))  
 json\_res1 = json.loads(res.content)  
 print(json\_res1)  
 token=(json\_res1["data"]["Token"])  
 assert res.status\_code == 200  
 print (token)  
def test\_login\_user():  
 url ="http://restapi.adequateshop.com/api/authaccount/login"  
 data = {  
 'email':'Developer5@gmail.com',  
 'password':'123456'  
 }  
 login\_data = json.dumps(data)  
 headers = {"Content-Type": "application/json; charset=utf-8"}  
  
 # sending post request  
 res = requests.post(url,login\_data, headers=headers)  
 # print(res.content)  
 #validating status code  
  
 json\_res = json.loads(res.content)  
 # print(json\_res["code"])  
 # print(json\_res)  
 assert res.status\_code == 200  
  
  
def test\_update\_info():  
 url= "https://reqres.in/api/users/2"  
 data = {  
 'name': "morpheus",  
 'job': "zion resident"  
 }  
 update\_data = json.dumps(data)  
 res = requests.put(url,update\_data)  
 print(res.content)  
  
 #validationn status code  
 assert res.status\_code == 200

Output:

METHOD=POST

url="http://restapi.adequateshop.com/api/authaccount/registration"

i.e for api for registration

url ="http://restapi.adequateshop.com/api/authaccount/login"

i.e api for login

Source Code:

#importing modules  
import requests  
import json  
import pytest  
  
def test\_register\_user():  
 url="http://restapi.adequateshop.com/api/authaccount/registration"  
 data = {  
 'name':"Lincoln",  
 'email':'tristin3D2a@gmail.com',  
 'password':'123456'  
 }  
 register\_data = json.dumps(data)  
 headers = {"Content-Type": "application/json; charset=utf-8"}  
  
 # sending post request  
 res = requests.post(url,register\_data, headers=headers)  
 # print(res.content)  
 #validating status code  
 json\_res1 = json.loads(res.content)  
 print(res.content)  
 email=(json\_res1["data"]["Email"])  
 ## login request  
 url2 ="http://restapi.adequateshop.com/api/authaccount/login"  
 data2 = {  
 'email': email,  
 'password': '123456'  
 }  
 login\_data = json.dumps(data2)  
 #sending post api call for login  
 res2 = requests.post(url2,login\_data,headers=headers)  
 print(res2.content)  
 #validating status code  
 assert res.status\_code and res2.status\_code == 200

Output:

