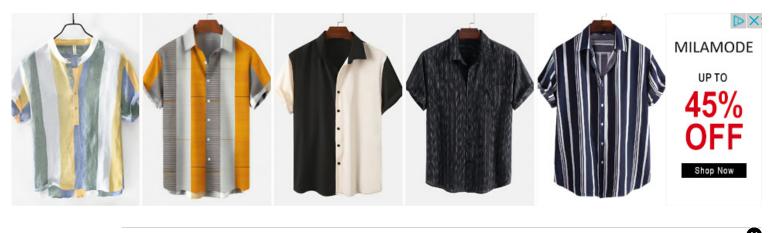
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Python + Requests + Pytest + Excel + Allure (2) Interface Automation Test Battle (w ith code)

tags: test python







by Previous Blog, we have already put the environment, start writing code.

1 First use Python simulation request:

1.1 GET request

```
import requests

i
```

1.2.1 POST request

```
import requests

import requests

params={"first_name":"hello","last_name":"word"}

headers={"Content-Tpye":"application/x-www-form-urlencoded"}

responds=requests.post("http://httpbin.org/post",data=params,headers=headers)

print(responds.text)

print(responds.url)

print(responds.request)
```

1.2.2 post json

```
import requests

import request method: URL parameter

import request method: URL parameter
```

2 Pytest project actual combat:

2.1. Create a subdirectory in turn is as follows:

Base: Store some of the bottom-up method package, protocol, request transmission, etc. Common: Store some public methods. Config: Store profile. DATA: Store test data. Log: Store the log. Report: Store report. Saving case. UTILS: Store public categories. Readme: Used to explain the document. Requirements.txt: Used to record all dependent package extreme version numbers, easy to deploy, can automatically generate and install through the PIP command.

2.2 Packaging Request Method (Create Method.py below the Base Directory)

2.2.1 There are two ways to encapsulate:

The first: directly call the Request method below the Requests library, and define all the parameters you need to use, divided into line arguments and row parameters, the actual parameters must be transmitted, the row parameters can be

given to the default value, when calling Re-assay can also use the default value. This method is less code, and the request will automatically send request to the server according to the incoming parameters.

```
import requests
import json

class ApiRequest(object):

# ---- The first request method package the Request Library, the call can be used according to def send_requests(self,method,url,data=None,params=None,headers=None,cookies=None,json=None,files=None, self.r=requests.request(method,url,data=data,params=params,headers=headers,cookies=cookies,json=return self.r
```

Second: Pack each request in the form of functions, respectively, and call Requests to send requests. Take GET and POST as an example: PUT, DELETE requests Press the same method package, each request mode package is completed, then define a master method, directly call the main method to automatically invoke each request function according to the request method, here you can also ask the request The summary package is sent directly to the respective functions. This method package involves more code amount, and has not been able to use the Requests library well, so the first method is recommended.

```
import requests
import json

class ApiRequest(object):

def get(self,url,data=None,headers=None):
    if headers is not None:
        res=requests.get(url=url,data=data,headers=headers)
    else:
```

```
res=requests.get(url=url)<sub>11</sub>
10
                                                          return res.json()
12
               "" "POST request" ""
13
         def post(self,url,data,headers):
14
15
             if headers is not None:
16
                  res=requests.post(url=url,data=data,headers=headers)
17
             else:
                 res=requests.post(url=url,data=data)
18
             if str(res)=="<Response [200]>":
19
20
                 return res.json()
21
             else:
22
                  return res.text()
23
24
25
26
27
         def all method(self,method,url,data=None,headers=None):
             if method=='get' or method=='GET':
28
29
                 res=self.get(url,data,headers)
             elif method=='post' or method=='POST':
30
31
                  res=self.post(url,data,headers)
32
             elif method=='put' or method=='PUT':
33
                 res=self.post(url,data,headers)
34
             elif method=='delete' or method=='DELETE':
                 res =self.delete(url,data,headers)
             else:
36
37
                                Res = 'request mode is incorrect'
             return json.dump(res,ensure ascii=False,indent=4,sort keys=True,separators=(',',':'))
38
```

2.2.2 Packaging Reading Documents (create public.py in the CommON directory):

- 1, here you need to use Python's OS library, the OS library is the Python standard library, contains hundreds of functions, commonly used path operations, process management, environmental parameters, etc.
- 2. Package the files in the acquisition directory and acquisition directory, directly call and passed into the corresponding parameters. As follows:

```
import os
    Os.path.DirName ( file ) # Get the current directory
    Os.path.Dirname (Os.Path.DirName) # Get the previous level of the current directory
4
    def fileDir(data):
6
8
             : param data: catalog
             : return: return
10
       base path=os.path.dirname(os.path.dirname( file ))
11
             Return Os.path.join (Base_path, DATA) # returns the obtained directory
12
13
    def filePath(fileDir="data",fileName="data.xls"):
14
15
             : param filedir: catalog
16
             : param filename: file name
17
18
             : return: return
19
        return os.path.join(os.path.dirname(os.path.dirname(__file__)),fileDir,fileName)
20
```

2.2.3, prepare data (create data.xlsx in the data directory)

Write the interface to the Excel table and use the fields you need to use into Excel and then read directly.



2.2.4 Package Reading File Method (Utils Directory Create OperationExcel.py)

Define a file class separately define a method to get the sheet table, define a method to get all the data stored lists and *Define global variables for headers*.

```
3
4
    import xlrd
    import xlwt
    from common import public
6
    class OperationExcel:
8
9
10
11
        def getSheet(self):
12
                     Book = xlrd.open_workbook (public.filepath ()) # The file parameters have been passed
13
14
                      Return book.sheet by index (0) # Get the Sheet table according to the index
15
16
17
18
```

```
det getExceldatas(selt):20
                                             data = []
21
                     Title = self.getsheet (). Row values (◊) # 0 gets the first line is the header
                     For Row In Range (1, Self.getsheet (): # get obtained from the second line
22
23
                row_value=self.getSheet().row_values(row)
24
                             Data.Append (Dict (Zip (Zip (Title, Row Value)) #
25
            return data
26
27
    class ExcelVarles:
28
             Case id = "Use case ID"
29
             Case module = "Use Delivery Module"
             Case name = "Used Case Name"
30
31
             Case url = "Use case address"
32
             Case method = "Request Method"
             CASE TYPE = "Request Type"
33
             Case_data = "Request Parameters"
34
             Case Headers = "Request Head"
36
             Case preposition = "Pre-Condition"
37
             Case_srun = "Do Not Execute"
38
             Case code = "Status Code"
39
             Case_Result = "Expected Results"
40
41
42
```

2.2.5 Package Login Method (Create Login.py below the Common Directory)

Get the Token to use it to interface, use the @ Pytest.FixTure decorator Each time you perform all the cases before the login method gets to TOKEN and returns.

1 import pytest

2.2.6, Packaging Example (Tests Directory Create Test_Gwyc_API_All.py)

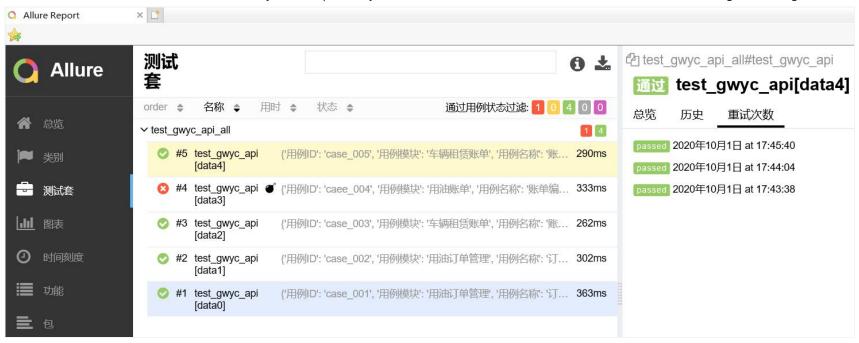
You need to use the @ Pytest.mark.Parametrize () decorator to make a package case, call getExcelDataS () to store the use case to the decorator, "DATA" is an alias. As shown in the following image, the separate request head and parameters are empty, and insert Token into Headers, so that each interface can be used to log in token, do not have to call to get token.

```
neaders=data[operationExcel.Excelvaries.case_neaders]
                                                      10
                                                             if len(str(headers).split())== 0:
elif len(str(headers))>= 0:
             Headers = JSON.LOADS (Headers) # Convert to Dictionary
    headers=headers
params=data[operationExcel.ExcelVarles.case_data]
if len(str(params).split())== 0:
elif len(str(params))>= 0:
    params=params
case_code=str(data[operationExcel.ExcelVarles.case_code])
def case result assert(r):
             askERT R.JSON () ['Errcode'] == Case code # status code
             Assert Data [OperationExcel.Excelvarles.case_Result] in json.dumps (r.json (), EnSure_asci
if data[operationExcel.ExcelVarles.case_method]=='get':
    r=method.ApiRequest().send requests(
        method='get',
        url=data[operationExcel.ExcelVarles.case_url],
        data=params,
        headers=headers
    case_result_assert(r=r)
elif data[operationExcel.ExcelVarles.case method]=='post':
```

2.2.7, use all init to generate test reports.

Allure is a Pytest's plugin package requires download and installation and configures the path where the BIN directory in the Allure can be used in the PATH environment variable.

Store the generated JSON file to the directory where the use case is located, after the execution is complete, then generate a report directory below, which contains the result directory and html directory, the former is stored by the JSON file, the latter stores the HTML report generated after reading



2.2.8 Package Log Method and Send Email (Log Directory Create Log.PY)

The reference role played in the automation test is relatively small to test the test report, directly call directly according to the corresponding rules.

```
12 logger.info("test test test")
```

Details of the specific code:link https://download.csdn.net/download/fish study csdn/13979653

```
also contains extra features such as built-in relays, execute
shell, and a dnscat2 client.
e: powercat [-c or -l] [-p port] [options]
                       Client Mode. Provide the IP of the system you wish to connect to. If you are using -dns, specify the DNS Server to send queries to.
                       Listen Mode. Start a listener on the port specified by -p.
  <port>
                       Port. The port to connect to, or the port to listen on.
                       Execute. Specify the name of the process to start.
  coroc>
                       Execute Powershell. Start a pseudo powershell session. You can
                       declare variables and execute commands, but if you try to enter another shell (nslookup, netsh, cmd, etc.) the shell will hang.
                        Relay. Used for relaying network traffic between two nodes.
   <str>
                       Client Relay Format: -r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r r
        Golang tcp forwarding remoteAddr error he client
                       DNS Mode. Send traffic over the dnscat2 dns covert channe VDO.Al
                        Specify the dns server to -c, the dns port to -p, and specify th
```



Intelligent Recommendation

Use python to realize interface test automation (using pytest, requests)

• • •

TOF



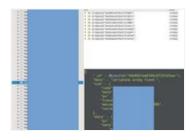
[Interface automated test] Based on pytest+requests+allure for interface testing V2.0

Interface automation test realization: pytest + request + allure V1.0 versionExplore API automated testing There are some problems with the automated script written, and some optimizations are made fo...



The near-term goal is to realize the interface automation test fra mework of Python pytest+allure

I found that the framework is relatively good, perhaps because I gave up a long period of research. Also, I have been thinking about how to integrate python into the testing work, but I have not taken...



Use mongodb+pytest+allure+jenkins to build API interface autom ation test

1. Introduction When I learned robotframework before, I knew that someone recommended this framework, shouting pytest Dafa is good, just recently to reconstruct a project's server-side interface autom...



Python interface automated test framework (Pytest+Allure+json path+xlrd+excel, supports Restful interface specification)

Article Directory nonsense Features Operating mechanism Known issues Environment and dependence Directory Structure Execution order config.ymal show EXcel use case display Script list Request method p...



More Recommendation

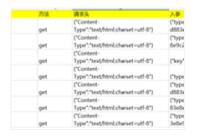
Jenkins implement interface automation continuous integration (Python + Pytest + Allure + Git)

5/31/2021

Python + Requests + Pytest + Excel + Allure (2) Interface Automation Test Battle (with code) - Programmer Sought



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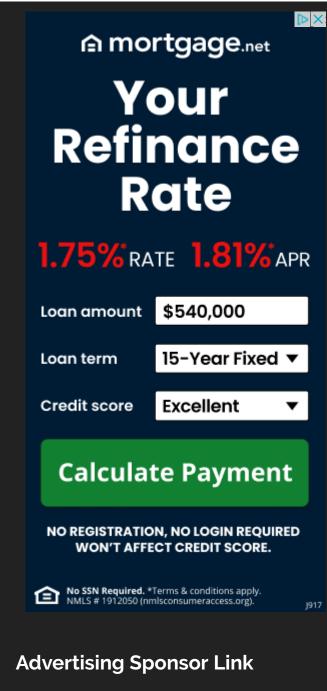
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