Student Record Api Atomation V1

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Automate Student API using pytest framework.

This project will execute four methods

🡪Add student record (post method)

🡪Update student record (Put method)

🡪Fetch student record (Get method)

🡪Delete student record (Delete Method)

🡪Push code to git

Note – json.loads() method used to convert data in json format.

Response.josn() also used for the same purpose.

Below is the code :

***Add student record (post method)***

**import** requests  
**import** json  
**import** jsonpath  
**import** string  
  
**def** test\_add\_student\_record():  
 api\_Url = **"http://thetestingworldapi.com/api/studentsDetails"** file\_Path = **"D:\\Shweta\_Test\_API\\Student\_API\_Project\\Post\_data1.json"** file = open (file\_Path,**'r'**)  
 content =json.loads(file.read())  
 response = requests.post(url=api\_Url,data=content)  
 print(response.text)  
 print(**'\n'**)  
 print(response.content)  
 print(**'\n'**)  
 print(response.headers)  
 response\_json = json.loads(response.text)  
 id = jsonpath.jsonpath(response\_json , **'id'**)  
 print (**"The new Student id is "** + str(id[0]))

OUTPUT:

D:\Shweta\_Test\_API\Student\_API\_Project>pytest -k test\_update\_student\_record -s

============================================================================= test session starts ==============================================================================

platform win32 -- Python 3.8.0, pytest-5.2.2, py-1.8.0, pluggy-0.13.0

rootdir: D:\Shweta\_Test\_API\Student\_API\_Project

plugins: idaptive-testrail-1.0.1

collected 2 items / 1 deselected / 1 selected

test\_student\_details\_api.py {"status":"true","msg":"update data success"}

b'{"status":"true","msg":"update data success"}'

{'Cache-Control': 'no-cache', 'Pragma': 'no-cache', 'Content-Type': 'application/json; charset=utf-8', 'Expires': '-1', 'Server': 'Microsoft-IIS/8.5', 'X-AspNet-Version': '4.0.3

0319', 'X-Powered-By': 'ASP.NET', 'X-Powered-By-Plesk': 'PleskWin', 'Date': 'Wed, 18 Dec 2019 16:56:29 GMT', 'Content-Length': '46'}

{'status': 'true', 'msg': 'update data success'}

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***Update student record (Put method)***

**def** test\_update\_student\_record():  
 api\_Url =**"http://thetestingworldapi.com/api/studentsDetails/150975"** file\_Path = **"D:\\Shweta\_Test\_API\\Student\_API\_Project\\Put\_data1.json"** file = open(file\_Path, **'r'**)  
 content = json.loads(file.read())  
 response = requests.put(url=api\_Url, data=content)  
 print(response.text)  
 print(**'\n'**)  
 print(response.content)  
 print(**'\n'**)  
 print(response.headers)  
 response\_json = json.loads(response.text)  
 print(response\_json)  
 status = jsonpath.jsonpath(response\_json, **'status'**)  
 message = jsonpath.jsonpath(response\_json, **'msg'**)  
 **assert** status[0]==**'true' and** message[0]==**'update data success'**

**OUTPUT**

**D:\Shweta\_Test\_API\Student\_API\_Project>pytest -k test\_update\_student\_record -s**

**============================================================================= test session starts ==============================================================================**

**platform win32 -- Python 3.8.0, pytest-5.2.2, py-1.8.0, pluggy-0.13.0**

**rootdir: D:\Shweta\_Test\_API\Student\_API\_Project**

**plugins: idaptive-testrail-1.0.1**

**collected 2 items / 1 deselected / 1 selected**

**test\_student\_details\_api.py {"status":"true","msg":"update data success"}**

**b'{"status":"true","msg":"update data success"}'**

**{'Cache-Control': 'no-cache', 'Pragma': 'no-cache', 'Content-Type': 'application/json; charset=utf-8', 'Expires': '-1', 'Server': 'Microsoft-IIS/8.5', 'X-AspNet-Version': '4.0.3**

**0319', 'X-Powered-By': 'ASP.NET', 'X-Powered-By-Plesk': 'PleskWin', 'Date': 'Wed, 18 Dec 2019 17:00:53 GMT', 'Content-Length': '46'}**

**{'status': 'true', 'msg': 'update data success'}**

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***Fetch student record (Get method)***

**def** test\_get\_student\_detais():  
 api\_url=**"http://thetestingworldapi.com/api/studentsDetails/150975"** response = requests.get(api\_url)  
 print(response.content)  
 response\_json = response.json()  
 status = jsonpath.jsonpath(response\_json , **'status'**)  
 firstname = jsonpath.jsonpath(response\_json , **'data.first\_name'**)  
 **assert** status[0]==**'true' and** firstname[0]==**'Anshul'**

**OUTPUT**

**D:\Shweta\_Test\_API\Student\_API\_Project>pytest -k test\_get\_student\_details -s**

**============================================================================= test session starts ==============================================================================**

**platform win32 -- Python 3.8.0, pytest-5.2.2, py-1.8.0, pluggy-0.13.0**

**rootdir: D:\Shweta\_Test\_API\Student\_API\_Project**

**plugins: idaptive-testrail-1.0.1**

**collected 3 items / 2 deselected / 1 selected**

**test\_student\_details\_api.py b'{"status":"true","data":{"id":150975,"first\_name":"Anshul","middle\_name":"kumar","last\_name":"test","date\_of\_birth":"12/5/2001"}}'**

***Delete student record (Delete Method)*  
  
def** test\_delete\_student\_record():  
 api\_url = **"http://thetestingworldapi.com/api/studentsDetails/150975"** response = requests.delete(api\_url)  
 print(response.content)  
 response\_json = response.json()  
 print(response\_json)  
 status = jsonpath.jsonpath(response\_json, **'status'**)  
 message = jsonpath.jsonpath(response\_json, **'msg'**)  
 **assert** status[0] == **'true' and** message[0] == **'Delete data success'**

**OUTPUT**

**b'{"status":"true","msg":"Delete data success"}'**

***Push code to git (Below are the commands used)***

241 cd d:

242 cd Shweta\_Test\_API/Student\_API\_Project/

243 git branch

244 git checkout -b dev-shweta-studentapi-project

245 git status

248 git add test\_student\_details\_api.py

249 git status

250 git add Post\_data1.json Put\_data1.json

251 git commit -m "First version of Student api project"

252 git push

253 git push --set-upstream origin dev-shweta-studentapi-project (if create branch locally)

254 exit