Data Representation

Lab 06.02: API Keys

Lecturer: Andrew Beatty

In this lab we are going to use Python access APIs that need a key

We are using the APIs as described by:

* <https://html2pdf.app/>
* <https://developer.github.com/v3/guides/>

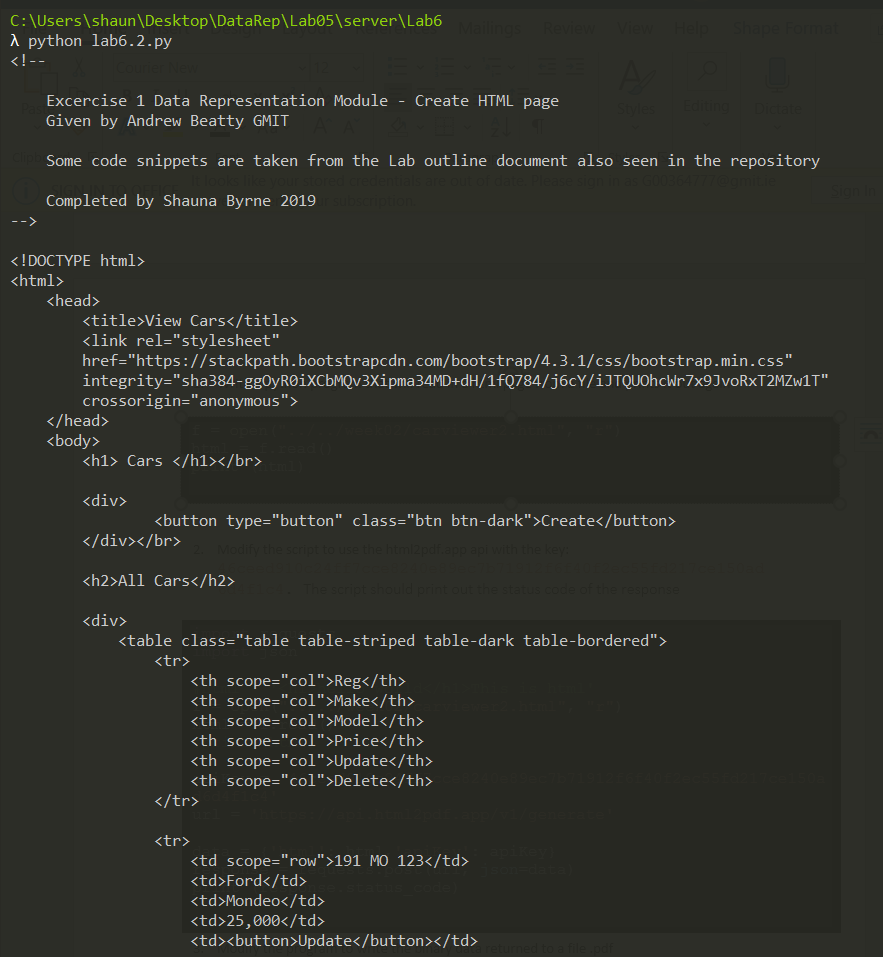
1. Write a python program that will read in a html page from a file and prints it out again

f = open("../../week02/carviewer2.html", "r")

html = f.read()

print (html)

Result -



1. Modify the script to use the html2pdf.app api with the key: 46ceed910c24ff7cce8240e89ec7b71912f6f40f2ec55fd217ce150ad6d4f1c4. The script should print out the status code of the response

import requests

import json

#html = '<h1>hello world</h1>This is html'

f = open("../../week02/carviewer2.html", "r")

html = f.read()

#print (html)

apiKey = '46ceed910c24ff7cce8240e89ec7b71912f6f40f2ec55fd217ce150ad6d4f1c4'

url = 'https://api.html2pdf.app/v1/generate'

data = {'html': html,'apiKey': apiKey}

response = requests.post(url, json=data)

print (response.status\_code)

1. Modify the program to write the binary data returned to a file .pdf

newFile = open("lab06.02.01.htmlaspdf.pdf", "wb")

newFile.write(response.content)

1. Test your code (open the pdf)

## Get private data from github:

Remove this minus sign

1. Use curl to check if the API key:

b55d312da577ba479f7dc4f8f3f5b1384bdf3b2-e

Can be used to access githup private data (This should all be on one line)

(This key gets deleted if you upload a file to GitHub that contains it, so I have put in a minus sign into it, you should remove the minus sign before using, and do not check in code that has this key in it)

Keys should be stored in environment variables

curl -i -H "Authorization: token b55d312da577ba479f7dc4f8f3f5b1384bdf3b2-e https://api.github.com/user/repos

1. Write python script that will get the information from a private repository called

datarepresentationstudent/aPrivateOne

And output the result to a file

response = requests.get(url, auth=('token',apiKey))

repoJSON = response.json()

#print (response.json())

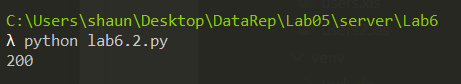
file = open(filename, 'w')

json.dump(repoJSON, file, indent=4)

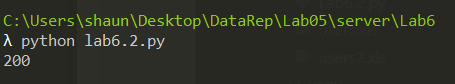
## Challenge

1. Write a script to get information from your repository
2. Write a script that will make a change to the datarepresentationstudent git account

2. Result –

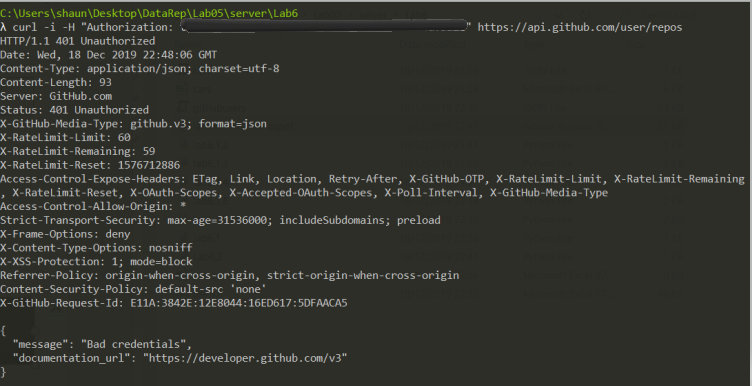


3 & 4. Result –



And pdf file in repository – lab06.02.01.htmlaspdf

5. Result –



7. Result –

