Data Representation

Lab 06.02: API Keys

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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/>

NOTE: The key in the GitHub code no longer works, possible because someone uploaded the key up to GitHub, I will now only display it on learnonline.

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)

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:

This key no longer works. See key in learnonline

1. Use curl to check if the API key:

 7aa146eafee094d3a7b1e81aa1d8fcb0eec8b910

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)

If you get a 401 error, then you need to recreate the API key.

Keys should be stored in environment variables

curl -i -H "Authorization: token

7aa146eafee094d3a7b1e81aa1d8fcb0eec8b910 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

You will need to make a variable called apiKey that contains the key

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

repoJSON = response.json()

#print (response.json())

file = open(filename, 'w')

json.dump(repoJSON, file, indent=4)

If the file had got “bad credentials” written in it. Then the key you are using is invalid.

## 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