Homework Assignment :

DevOps

About the Assignment

This assignment is meant to be used for Internship recruitment purposes. The assignment should be sent to the Internship candidate before the interview. After reviewing homework assignment and evaluation of CV (and other material), it will be decided if a candidate will be asked for an interview.

This assignment is meant for recruitment within the area of **Paid DevOps Internship**

Deliverables

The candidate will be given a scenario and based on that scenario, the candidate should produce:

- Scripts using any scripting language (Powershell/Python preferred)
- Text files with a result of required tasks
- Zip File with full homework

The candidate might be asked within the interview to present what and how was done.

Scenario

You are DevOps and You were asked by using API with scripting language to search and present output of given tasks. GitHub api will be used for this assignment: https://api.github.com.

Tasks

Task 1

Description:

List all possible GitHub API methods and write them to a text file (2).

Also make two additional text files, one (3) with a list of methods not requiring any parameters to call, another (4) - methods which require a parameter.

Output: (1) Script how You got this task solved. (2) AllPossibleGitHubAPI.txt - file. (3) AllPossibleGitHubAPI_noparameters.txt file. (4) AllPossibleGitHubAPI_requireparameters.txt

Task 2

Description:

Authenticate to GitHub using a recommended method.

Output:

(1) Script how You did authentication to github.

Task 3

Description:

There is a Lithuania flag somewhere in the GitHub API (not in a repository, but available in API). Write a function to download Lithuania or any other specified country flag. A file must be named according to the country and in png format.

Output:

(1) Script how You did this assignment. (2) png file.

Task 4

Description:

Find an automatic way to look for any users repo and be able to clone it to the local system. As an example - find Microsoft dotnet repository and clone it to the local system (preferably using native git methods) .

Output:

(1) Script how You did this assignment.

Task 5

Description:

Make a zip File with output from all 4 (or how many You have made) tasks.

Output:

(1) zip file Name_Surname_DevOpsInternship.zip

REMEMBER - THERE IS NO RIGHT OR WRONG ANSWER. **GOOD LUCK!**