Status Checker for Subdomains Documentation

Introduction

A Python script called Subdomain status check enables you to keep track of the status of several subdomains across various domains. It does an automatic check to see if the subdomains are up or down and then presents the information in a tabular manner on the screen.

Requirements

You must the following in order to use the Subdomain Status Checker:

3.x Python

The requests library and the tabulate library can both be installed with pip install requests and pip install tabulate, respectively.

File for Configuration:

The configuration file, which is a JSON file, includes details about the domains and the relevant subdomains that you want to monitor.

The configuration file is organized as follows:

```
{
  "Configuration": {
    "SleepTime": 60,
    "Domains": [
      {
        "Domain": "https://herovired.com",
        "SubDomains": [
          "https://vlearnv.herovired.com"
        ]
      },
      {
        "Domain": "https://github.com",
        "SubDomains": [
          "https://gist.github.com",
          "https://developer.github.com"
        ]
```

```
        }
      ]
    }
}
```

- **SleepTime**: The time interval (in seconds) between each check of the subdomain status.
- **Domains**: A list containing the information about each domain and its corresponding subdomains.
    - **Domain**: The main domain URL (e.g., **"https://hreovired.com"**)
    - **SubDomains**: A list of subdomains associated with the main domain (e.g., **["https://vlearnv.herovired.com"]**)

Function Descriptions :

check_subdomain_status(domain, subdomains)

This function is in charge of evaluating each subdomain under a specific domain. Each subdomain receives HTTP GET queries, and each subdomain's status (Up/Down) and status code are recorded.

- **domain**: The main domain URL.
- **subdomains**: A list of subdomains associated with the main domain.

file_validation(file_path)

This function checks whether the configuration file exists and has the correct file extension (**.json**).

- **file_path**: The path to the configuration file.

read_config_file(file_path)

The json file extension of the configuration file are verified by this function.

- **file_path**: The path to the configuration file.

Main Execution :

The main execution of the script begins with the following steps:

1. Validates the configuration file path.
2. Reads the configuration data from the JSON file.

3. Sets up the headers for the tabular output.
4. Enters a loop that repeatedly checks the status of the subdomains based on the specified sleep time.

In each iteration of the loop:

1. The script collects the results of the subdomain status checks in a list.
2. Using the tabulate function, the outcomes are shown on the screen in a tabular fashion.

The loop keeps going until the user (using **KeyboardInterrupt**, generally by pressing **Ctrl+C**) breaks it.

Implementing the Script :

Make sure you have installed every need before running the Subdomain Status Checker. The configuration file should then be saved with the required domains and subdomains. Use this command to run the python subdomain_status_checker.py

The script will run indefinitely, checking the status of the designated subdomains and displaying the results in a tabular style with the provided sleep intervals between checks.