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Data Migration - Round 3

Automatically upload the RST file from Task 2 to GitHub

Requirements

Write a java/python command line application push the RST file to GitHub and overwrite if the file is existed.

Input: RST file of task 2

Output: File got pushed to GitHub branch

Evaluation

- [x] Push to GitHub
- [x] Overwrite
- [x] Clean code

Installation

Install the required packages by using pip

```
pip install -r requirements.txt
```

Getting Started

```
$ python main.py -i sample.rst -s config.yaml
```

Technical Overview

- We use the GitHub REST API to upload files.
 - First, use a GET method to retrieve the current SHA of a file. If file does not exist on that branch, the value of SHA is None.
 - Second, use a PUT method to upload the file. The file is encoded, together with its SHA (if
 overwrite) and commit message are pushed to the branch
- Of course, you must provide your personal access token and this token must be authorized to access the resources.
- For more detail, please refer to GitHub REST API documentation

Generative Access Token

You can following this guidelines to generate your own access_token

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• Note that make sure that your access token have scope and expiration dates specified enough time and have valid credentials to read and write the repo

Usage

The program have 2 arguments. You can check the documentation by using the command

```
$ python main.py -h
```

Example command:

```
$ python main.py -i sample.rst -s config.yaml
```

• Step 1: Modify the /Task3/config.yaml

```
AUTHENTICATION:

TOKEN: <GitHub-Access-Token>
USERNAME: <username>
MESSAGE: <commit-message>
REPOSITORY:
BRANCH: <name-of-branch>
NAME: <name-of-repo>
OWNER: <repo-owner>
```

Note that the repository must have the branch before pushing.

Example configuration for a repository:

```
AUTHENTICATION:

TOKEN: <GitHub-Access-Token>
USERNAME: <username>
MESSAGE: test-github-access-token
REPOSITORY:
```

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BRANCH: main

NAME: Bosch_CodeRace_TheThree

OWNER: nlthanhcse

• **Step 2:** run the main.py to start uploading

\$ python main.py -i sample.rst -s config.yaml