CHALLANGE GOLD

Benny Sinurat

WAVE - 18 GOLD

Code ini berfungsi untuk meginstall ngrok di code python kita yang berfungsi supaya api kita bisa kita akses melalui Postman

```
!pip install pyngrok
# !ngrok authtoken '1tNQ4Yq1DI7QsGlrYXTSiO6aPVV_4qxeC5KNSP34KuRW6RapB'

Requirement already satisfied: pyngrok in /usr/local/lib/python3.10/dist-packages (7.1.5)
Requirement already satisfied: PyYAML>=5.1 in /usr/local/lib/python3.10/dist-packages (from pyngrok) (6.0.
```

code dibawah ini berfungsi untuk melakukan autentika ke server ngrok dengan menggunakan token

```
[ ]  !ngrok authtoken '1tNQ4Yq1DI7QsGlrYXTSiO6aPVV_4qxeC5KNSP34KuRW6RapB'

     Authtoken saved to configuration file: /root/.config/ngrok/ngrok.yml
```

code dibawah ini berfungsi untuk memasukkan token via form akan dikirimkan ke server ngrok, masukkan authtoken ke form lalu tekan enter

```
[ ]  import getpass

     from pyngrok import ngrok, conf

     print("Enter your authtoken, which can be copied from https://dashboard.ngrok.com/auth")
     conf.get_default().auth_token = getpass.getpass()

     # Open a TCP ngrok tunnel to the SSH server
     connection_string = ngrok.connect("22", "tcp").public_url

     ssh_url, port = connection_string.strip("tcp://").split(":")
     print(f" * ngrok tunnel available, access with `ssh root@{ssh_url} -p{port}`")
```

```
Enter your authtoken, which can be copied from https://dashboard.ngrok.com/auth
··········
 * ngrok tunnel available, access with `ssh root@8.tcp.ngrok.io -p12458`
```

dibawah ini ada API yang memiliki path : /clean-data, API ini berguna untuk membersihan data yang berupa kata kotor menjadi kata sopan

```
[ ]  import os
     import threading
     from flask import Flask, request, jsonify
     from pyngrok import ngrok
     import pandas as pd

     class DataCleaningApp:
         def __init__(self):
             self.app = Flask(__name__)
             self.port = "5000"

             # Open a ngrok tunnel to the HTTP server
             self.public_url = ngrok.connect(self.port).public_url
             print(f"* ngrok tunnel \"{self.public_url}\" -> \"http://127.0.0.1:{self.port}\"")

             # Update any base URLs to use the public ngrok URL
             self.app.config["BASE_URL"] = self.public_url

             # Define list of bad words and their polite replacements
             bad_words = {
         'alay': 'berlebihan',
         'ampas': 'sampah',
         'buta': 'tidak bisa melihat',
```

```python
# Define Flask routes
@self.app.route("/")
def index():
    return "Hello from Colab!"

@self.app.route('/clean-data', methods=['POST'])
def clean_data():
    # Check if file was sent with the request
    if 'file' not in request.files:
        return jsonify({'error': 'No file part'})

    file = request.files['file']

    # Check if file has allowed extension (e.g., CSV)
    if file.filename == '':
        return jsonify({'error': 'No selected file'})

    if file:
        # Save the uploaded CSV file
        file_path = 'uploaded_file.csv'
        file.save(file_path)

        # Read CSV into pandas DataFrame
        df = pd.read_csv(file_path)

        # Perform cleaning operation (for demonstration, let's say we remove rows with missing values)
        cleaned_df = df.dropna()

        # Replace bad words with polite ones
```

```
            # Perform cleaning operation (for demonstration, let's say we remove rows with missing values)
            cleaned_df = df.dropna()

            # Replace bad words with polite ones
            for word, replacement in bad_words.items():
                cleaned_df = cleaned_df.replace(word, replacement)

            # Save cleaned data to a new CSV file
            cleaned_file_path = 'cleaned_file.csv'
            cleaned_df.to_csv(cleaned_file_path, index=False)

            return jsonify({'message': 'Data cleaned successfully', 'cleaned_file': cleaned_file_path})

    # Start the Flask server in a new thread
    threading.Thread(target=self.app.run, kwargs={"host": "0.0.0.0", "port": self.port, "use_reloader": False}).start()

f __name__ == "__main__":
  data_cleaning_app = DataCleaningApp()
```

```
ngrok tunnel "https://e52b-35-236-233-187.ngrok-free.app" -> "http://127.0.0.1:5000"
 Serving Flask app '__main__'
 Debug mode: off
NFO:werkzeug:WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server inste
 Running on all addresses (0.0.0.0)
 Running on http://127.0.0.1:5000
 Running on http://172.28.0.12:5000
NFO:werkzeug:Press CTRL+C to quit
```

proses hit API memakai postman