AIMLCZG519 - Group 74

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Local App Setup

1. Open Windows PowerShell and run the same as Administrator
2. Change to Flask App Directory

cd *flask_app_directory_path*

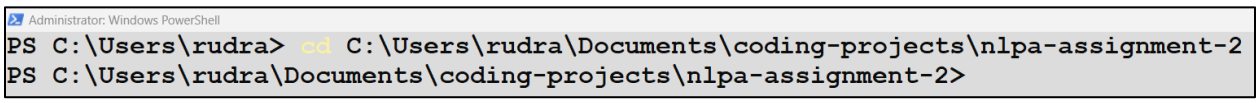

Figure 1: Flask App Path in my Local

3. Install Python Package *virtualenv*

pip install virtualenv

4. Create a Python Virtual Environment named *venv*

virtualenv venv

5. Set Execution Policy to allow Script Run without requiring a digital signature

```
Set-ExecutionPolicy -ExecutionPolicy RemoteSigned -Scope Process
```

Press [A] to confirm changes to all Execution Policies.

6. Activate the Python Virtual Environment named *venv*

```
venv\Scripts\activate
```

7. Add the following required packages in *requirements.txt*

```
flask
nltk
transformers
sentencepiece
torch
```

8. Install the above-mentioned packages

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

9. Switch to Python Prompt

```
(venv) PS C:\Users\rudra\Documents\coding-projects\nlpa-assignment-2> python
Python 3.12.4 (tags/v3.12.4:8e8a4ba, Jun  6 2024, 19:30:16) [MSC v.1940 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

Figure 2: Python Prompt in my Local

10. Import NLTK library and download required NLTK resources

```
import nltk
nltk.download('wordnet')        # WordNet lexical database
nltk.download('punkt')          # Punkt tokenizer models
nltk.download('punkt_tab')      # Secure and Updated Tokenizer
nltk.download('stopwords')      # stopwords dataset
```

Local App Run

1. Open Windows PowerShell and run the same as Administrator
2. Change to Flask App Directory
3. Set Execution Policy to allow script run without requiring a digital signature
    a. Press [A] to confirm changes to all Execution Policies.
4. Activate the Virtual Environment
5. Execute the Python File *nmt-app.py* containing the Flask application

```
(venv) PS C:\Users\rudra\Documents\coding-projects\nlpa-assignment-2> python nmt-app.py
 * Serving Flask app 'nmt-app'
 * Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production W
SGI server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 156-085-325
```

Figure 3: Running Python Flask App

As can be seen in the above screenshot (Figure 3), post executing the python file *nmt-app.py*, the Python Flask Web App runs on http://localhost:5000.