Flask-based Essay Generation API Documentation

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This documentation explains how to utilise the Flask-based API to generate essays based on user input and CSV data.

1. Prerequisites:

Before using the API, make sure you have the following installed:

- Python
- Flask
- Pandas
- Transformers (for language model integration)
- POSTMAN API testing tool of your choice

2. Setup:

- 1. Install the required Python libraries using pip: 'pip install flask pandas transformers'
- 2. Run the Flask API: Python3 apis.apis.py

Note: The Flask API should be running on http://127.0.0.1:5000/by default.

3. Using the API

a. Uploading a CSV File

To upload a CSV file containing titles and content data:

- Endpoint: /upload_csv
- HTTP Method: POST
- Request Payload: A form with a file field a.csv file.
- **Response**: JSON response indicating the success or failure of the upload.

b. Generating an Essay

To generate an essay based on a user prompt and the uploaded CSV data:

- Endpoint: /generate essay
- HTTP Method: POST
- **Request Payload**: JSON object with a prompt key containing the user prompt.
- **Response**: JSON response containing the generated essay.

c. Generating an Essay

Example Request (Using Postman):

- Set the request URL to http://127.0.0.1:5000/generate_essay.
- Set the request method to POST.

• In the request body, select "raw" and choose "JSON (application/json)." Enter the following JSON object:

{

"prompt": "Write an essay about the impact of technology on society."

}

4. Troubleshooting

If you have any problems or encounter any difficulties when using the API, please refer to the error messages in the API answers. File format problems or server-related failures are common difficulties that may be resolved by confirming that the CSV file is in the right format and that the Flask API is functioning.

Please contact [03046043943/imfayzanbhatti@gmail.com] if you require any extra assistance or have any queries.

5. Testing

To begin, fire up the Flask-based API server. This server serves as the framework for producing writings. Simply execute the api.py script in your terminal:

python3 apis.apis.py

To run testcase open the folder tests/ then run following command: python3 test_apis.py