**Installation**

Clone the repository:

git clone <repository\_url>

cd <repository\_name>

Install dependencies:

pip install -r requirements.txt

**Usage**

**Running the Flask Application**

Run the Flask application:

flask run

A link will be provided in the terminal (e.g., Running on http://127.0.0.1:5000). Follow that link using ctrl+click.

**API Endpoints**

**1. Upload Image**

* **Endpoint:** /upload
* **Method:** POST

**Example Request:**

curl -X POST -F "pic=@/path/to/image.jpg" http://localhost:5000/upload

**Explanation:**

* This endpoint allows users to upload an image file to the server.
* The -F flag with curl is used to specify a form field. In this case, pic is the form field name, and @/path/to/image.jpg represents the path to the image file to be uploaded.
* Upon successful upload, the server responds with a 200 OK status code and a message indicating the successful upload.
* If no image is uploaded or the filename is invalid, the server responds with a 400 Bad Request status code and an appropriate error message.
* If the image already exists in the database, the server responds with a 400 Bad Request status code and a message indicating that the image already exists.

**2. Display All Images**

* **Endpoint:** /images
* **Method:** GET

**Example Request:**

curl http://localhost:5000/images

**Explanation:**

* This endpoint retrieves all uploaded images from the server.
* A GET request is sent to the /images endpoint to retrieve the list of images.
* The server responds with an HTML page containing the images along with their descriptions (if available).
* This HTML page can be viewed in a web browser.

**3. Get Individual Image**

* **Endpoint:** /<int:id>
* **Method:** GET

**Example Request:**

curl http://localhost:5000/1

**Explanation:**

* This endpoint retrieves an individual image by its unique identifier (id) from the server.
* A GET request is sent to the endpoint with the specific image ID (e.g., 1).
* If the image with the specified ID exists, the server responds with the image data along with the correct MIME type.
* The client can then display or process the image data accordingly.