**User Manual**

**Image Processing App**



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**Prompt:** Introduction

**Image Processing App**

Welcome to the Image Processing App user manual. This application allows you to load an image, apply a series of image processing operations, and display processed images. This user manual provides step-by-step instructions on how to use the app.

**Installation**

Before using the Image Processing App, make sure you have the required libraries installed. You can install the necessary libraries using the following commands:



These commands use the `pip` package manager to install the OpenCV library (`opencv-python`), the Tkinter library (`tkinter`), and the Pillow library (`pillow`). Ensure that you have a working internet connection and that your Python environment is properly set up.

**Running the Program**

1. Open a terminal or command prompt.

2. Navigate to the directory containing the Python script.

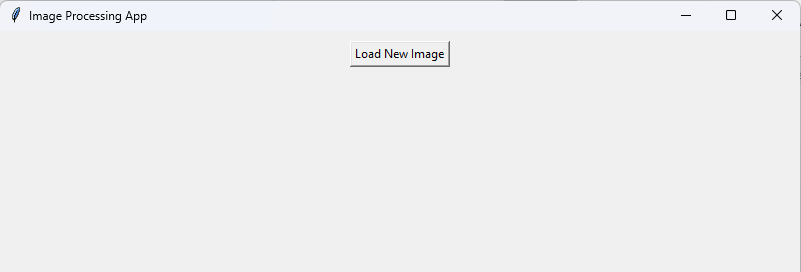
3. Run the script by executing the command: `python script\_name.py` (Replace `script\_name.py` with the actual name of the Python script).



**Prompt:** Here are the steps!

**1. Load Image**

To load a new image, follow these steps:



- Click the "Load New Image" button.

- A file dialog will open. Navigate to the location of the image you want to process.

- Select an image file (supported formats: jpg, png, jpeg) and click "Open."

**2. Image Processing**

The Image Processing App applies a series of image processing operations to the loaded image. The current processing operations include:

- Converting the image to grayscale.

- Inverting the grayscale image.

- Applying median blur to the inverted image.

- Inverting the smoothed image.

- Creating a sketch effect by dividing the original grayscale image by the inverted smoothed image.

**3. Displaying image**



-The application displays processed image.

**END**