FPT Education

FPT UNIVERSITY

PFP 191 - AI 18C - FPT University

Assignment 2 Image Augmentation

Group VANDV

CONTENT

MEMBERS

Nguyen Quoc Nhut

Vo Mai Kha Vi

Tran Huy Duong

Nguyen Thi Tu Anh

Tran Xuan Bao Viet

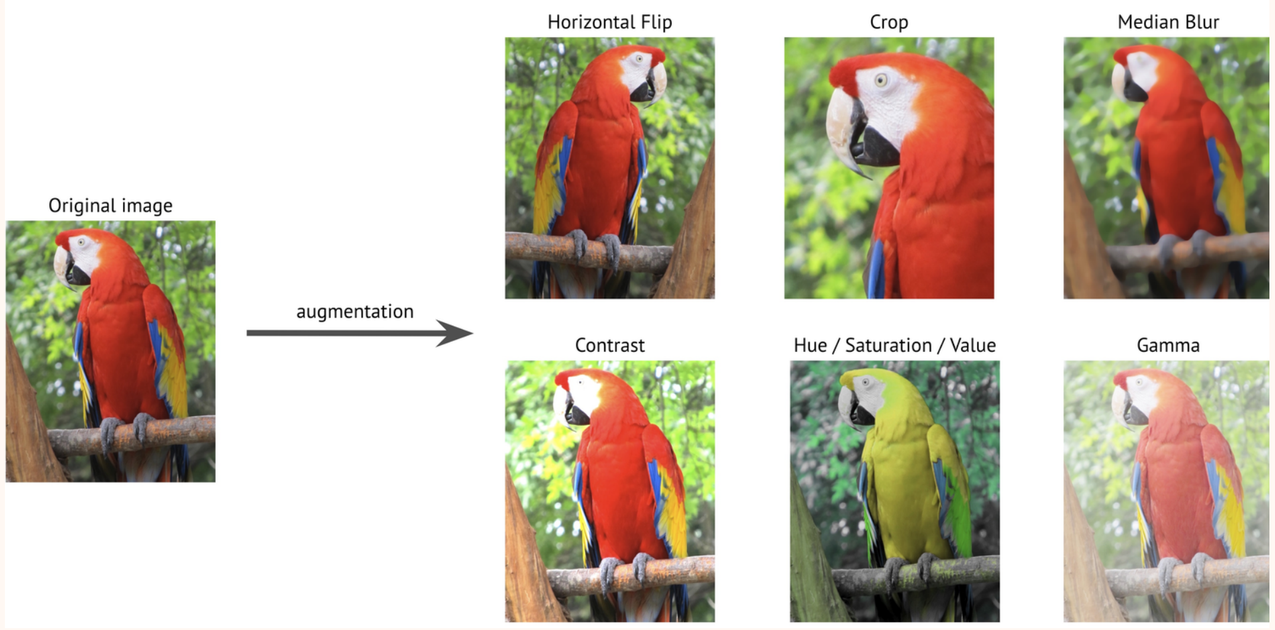
Division of tasks

TASK MANAGMENT						
No	TASK	MEMBER	START DAY	END DATE	COMMENT	NOTE
1	Assignment tasks to each members	Quốc Nhựt	Wednesday, 25 October, 2023	Wednesday, 25 October, 2023	DONE	
2	Determine project goals and significance	All	Wednesday, 25 October, 2023	Wednesday, 25 October, 2023	DONE	
3	Research and analyzze project requirement	All	Thursday, 26 October, 2023	Thursday, 26 October, 2023	DONE	
4	Search for suitable images	Khả Vi - Tú Anh	Thursday, 26 October, 2023	Thursday, 26 October, 2023	DONE	
5	Design function	Quốc Nhựt - Bảo Việt - Huy Dương	Friday, 27 October, 2023	Sunday, 29 October, 2023	DONE	
6	Complete function and write code	Quốc Nhựt - Bảo Việt - Huy Dương	Monday, 30 October, 2023	Wednesday, 1 November, 2023	DONE	
7	Quality Assurance and Testing	Khả Vi - Tú Anh	Thursday, 2 November, 2023	Saturday, 4 November, 2023	DONE	
8	Performance Opitimization	All	Saturday, 4 November, 2023	Sunday, 5 November, 2023	DONE	
9	Design Presentation slides	Quốc Nhựt - Huy Dương	Sunday, 5 November, 2023	Monday, 6 November, 2023	DONE	
10	Review Presentation	All	Monday, 6 November, 2023	Tuesday, 7 November, 2023	DONE	
11	Presentation	All	Wednesday, 8 November, 2023	Wednesday, 8 November, 2023	DOING	
12	Answer Question from everyone	All	Wednesday, 8 November, 2023	Wednesday, 8 November, 2023	DOING	
13	Edit Projet after presentation	All	Thursday, 9 November, 2023	Thursday, 9 November, 2023	FUTURE	

Project goals and significance

The goal of the project is to help learners become familiar with some common libraries and image processing methods, creating a large number of images with limited image resources at first. At the same time, learners improve their programming abilities with Python.

Research and project requirement



Project goals and significance

Input

- Image processing methods (or modify the configuration files)
- Number of expected output images.

Output

- Images after processing.

Learning rule

- PIL / OpenCV / etc.
- List, Dictionary, random.
- Image Processing methods combination.

Research Image

Design function

1. **Rotation**
2. **Translation**
3. **Zoom**
4. **Change Brightness**
5. **Random Flip**
6. **Change Color**

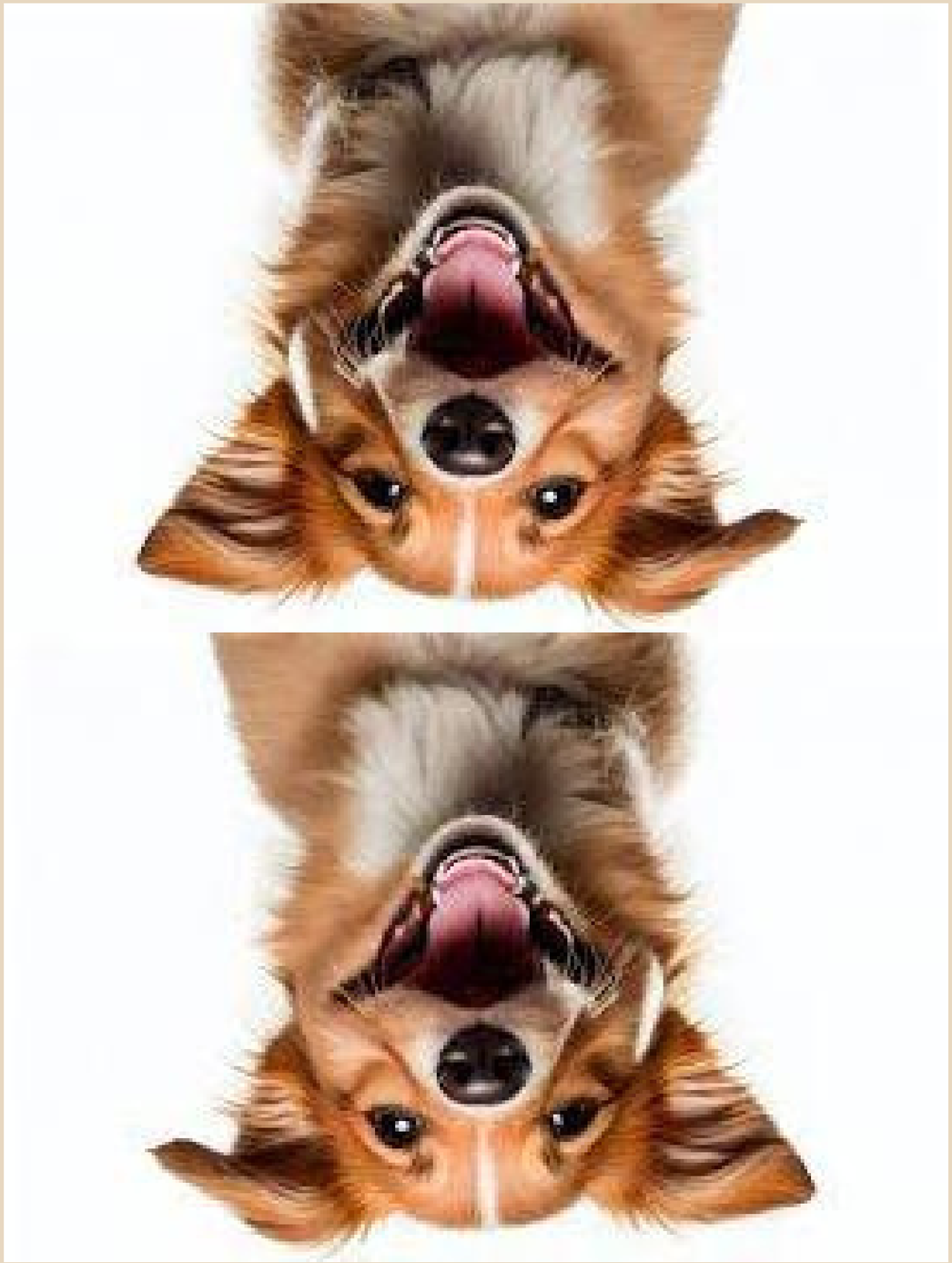
1.ROTATION

2. TRANSLATION

3. Zoom

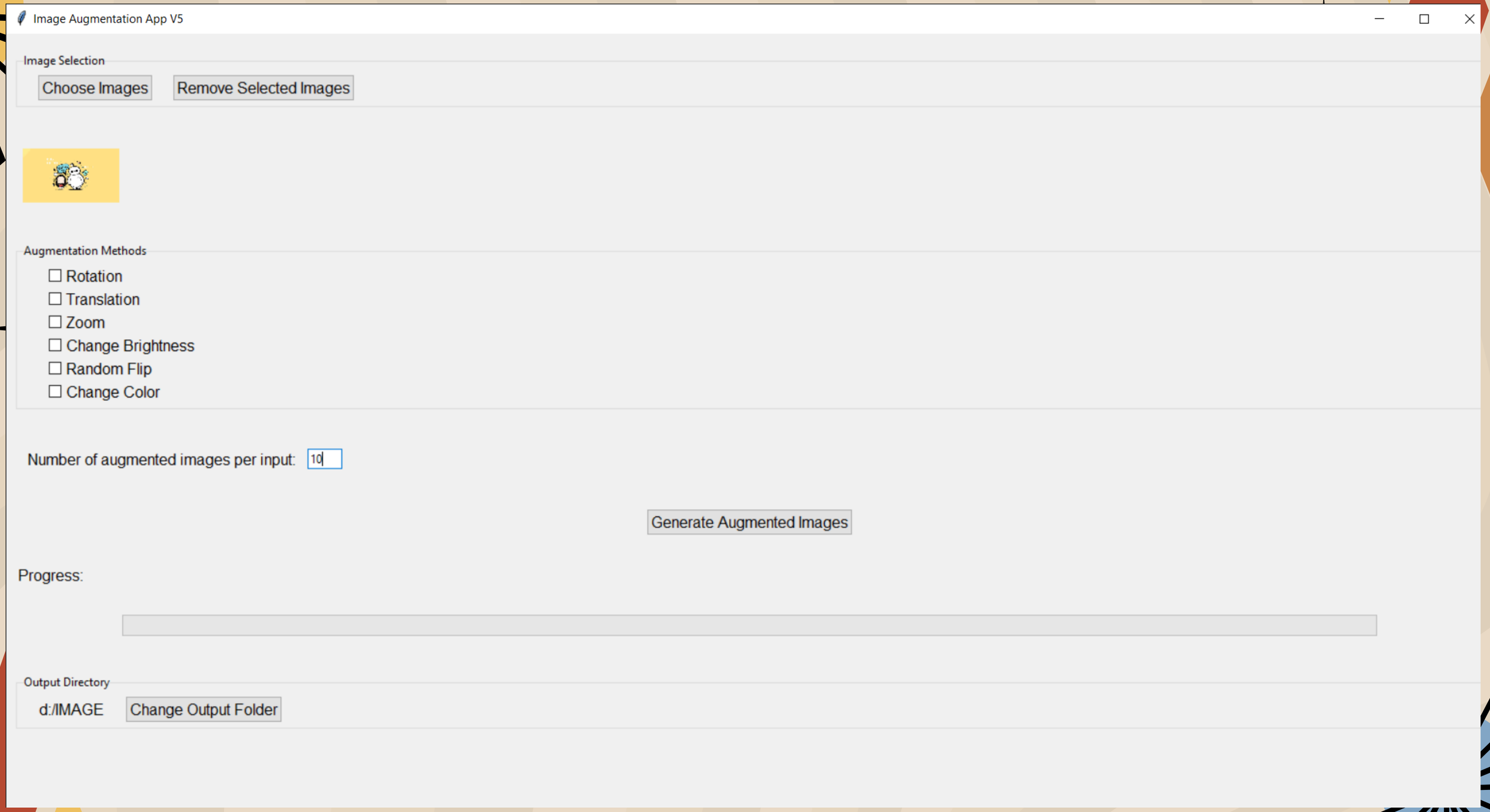
4.Change Brightness

5.Random Flip



6.CHANGE COLORS

Introduction of the UI



Demo