

Photo Editor in Python

In this project you will be making a photo editor using Python and its many libraries. You will be using pillow for image manipulation and Tkinter for making the GUI for our application

The project is divided into 2 parts:

- 1. Basic**
- 2. Intermediate to advanced**

A brief overview of the project(basic) can be found here:

[\[WoC 4.0\] Python Based Image Editor](#)

The following table will is a overall gist of the entire project

	What you will implement	What you will learn	Tech Stack
Level 1	1.Building a basic GUI for the application 2. Implementing basic image editing function without using any ready made function.	1. Basics of python. 2. How to make a GUI using Tkinter. 3.Few algorithms for image manipulation.	1.Python. 2.Tkinter 3.Numpy 4.Pillow
Level 2	1.Adding much more advanced features in your application. 2.making appropriate changes to multiple images without user intervention	1.Working with multiple files simultaneously.	1.Python 2.Tkinter 3.Numpy 4.Pillow

Level 1:

Your application should have at least the following features:

- A simple GUI made from Tkinter.
- Should be able to load new images to be edited.
- Should be able to save edited images.
- Crop, Black & White, Invert Colors, Horizontal flip, Vertical Flip, Rotate left & right.

Level 2:

You have to perform the following tasks under level 2:

- Add more features based on your creativity.
- The application should be able to do predefined changes to multiple images.
Ex - given templates for certificates it should read multiple names and roll no. from .CSV file (excel) and add the to the template thus making multiple certificates.

References:

You can refer the following tutorials for installing python:

- For [Windows](#)
- For [Mac OS](#)

Here are the documentations for the various libraries you will be using:

- [tKinter](#) (python library to make GUIs)
- [Numpy](#) (python library for array manipulation)
- [Pillow](#) (python library for image manipulation)

Video Tutorials:

- [tKinter](#)
- [Numpy](#)
- [Pillow](#)

Mentors:

Kunj Patel – 8401159330 (202001421@daiict.ac.in)

Vishesh Patel – 9428307630 (202001186@daiict.ac.in)

Harsh Patel – 9274045531 (202001173@daiict.ac.in)

Dishant Vyas – 7567478714 (201901073@daiict.ac.in)

Dev Choganwala – 7045253893 (201901271@daiict.ac.in)

Note : We'll be making a whatsapp group to solve all your doubts, we encourage you not to hesitate and feel free and comfortable to ask any questions. Hope

you're enthusiastic about this project and most importantly, have fun coding and developing :).