

Day 01 – Image Resizing Application Using Python

Project: Image Resizing Application using Python

The Image Resizing Application is a simple program that allows users to resize images in bulk. It is written in Python and utilizes the Pillow library to manipulate images.

The application starts by asking the user to select a folder containing the images they wish to resize. The user then specifies the desired width and height of the resized images. The program then loops through all of the images in the folder and resizes each one using the specified dimensions. The resized images are saved in a new folder, preserving the original aspect ratio and avoiding distortion.

The Pillow library provides a range of functions for processing images, including resizing, cropping, and rotating. In this application, the **resize** function from the **Image** module is used to change the dimensions of each image. The **Image** module also provides functions for opening and saving images, which are used in the application.

The code for this project is as follows:

```
from PIL import Image
import os

def resize_images(folder, new_width, new_height):
    for filename in os.listdir(folder):
        img = Image.open(f'{folder}/{filename}')
        img = img.resize((new_width, new_height), Image.ANTIALIAS)
        img.save(f'{folder}_resized/{filename}')

folder = input("Enter the name of the folder containing the images: ")
new_width = int(input("Enter the desired width for the images: "))
new_height = int(input("Enter the desired height for the images: "))

try:
    os.mkdir(f'{folder}_resized')
except FileExistsError:
    pass

resize_images(folder, new_width, new_height)
print("Images resized successfully!")
```

This project demonstrates the use of the Pillow library for image processing in Python, as well as basic file handling techniques for accessing and saving images. The application

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provides a convenient solution for quickly resizing multiple images, making it useful for photographers, designers, and other individuals who need to resize images in bulk.

Output:

```
> python -u .\ImageResize.py
Enter the name of the folder containing the images: New Nimo
Enter the desired width for the images: 250
Enter the desired height for the images: 250

Images resized successfully!
```