GO DOT YOURSELF

Project Proposal

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Class Human ICT Software Engineering

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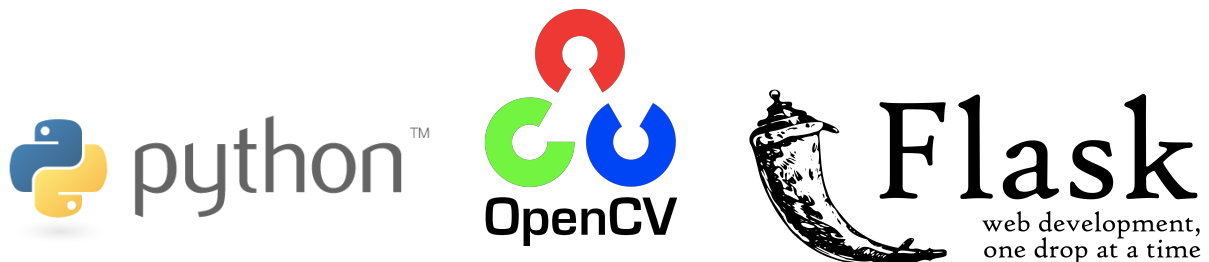
PROJECT SUMMARY

Why it is needed?

With the recent rise of New Retro, the designs vibes of 70s and 80s are back on track. Many restaurants, cafes, and even fashion stores with this 'New Retro Vibe' is becoming one of the most popular places in Seoul. Meanwhile, I was looking at the Github default profile image, the colorized qrcode picture, and thought it would be nice if I had my own profile picture with this current 'New Retro Trend' applied on.

Pixel art remains a contemporary art form and a common rendering technique in digital games and media. However, the manual creation of pixel art is often time consuming and requires a degree of skill that is not easily obtained by novices of the art. Therefore I came up with an idea of creating **"GO DOT YOURSELF"** website, which converts my picture into pixelated images.

Project Goal

The final goal of the project "GO DOT YOURSELF" is automatically converting high resolution images into an output that approximates the manual results of pixel artists.

Implementation Method

I am planning to use Python for programming language for overall project, and import OpenCV library to manage image processing. For the final visualization of the project, I am going to use Flask framework to bulid up a website.

Product Description

The website itself would be pretty simple and would not have many features.
- Upload an image
- Click 'convert' button
- Show the result of conversion: pixelated image of uploaded picture