

CV-IP

(Code Blueprint GUI)

We are expecting an executable program which will process the image using a linear filter. The part it will/should have are:

- **A GUI Interface**
- **Able to browse file**
- **Process the Image**
- **Color Conversion**
- **Save the Image**

The Interface should be interactive and attractive. Now what are the components our GUI Interface must contain:

- Button to browse files
- Option to select image format i.e. (.jpg or .png)
- Button for Grayscale
- Option where user can select the filename by which they want to save
- Button to Save file

We are going to make a class for this using python which will have functions for

- Selecting files
- Image processing
- Color Conversion
- Saving the processed image

save photograph will give an option that if user isn't giving a name or layout it will provide a name and default layout might be .png or .jpg

List of python libraries we have use in code they are

- **cv2**
- **numpy**
- **Tkinter**