

Photo Booth

INTRODUCTION :

Our project “Image Editing GUI Using MATLAB” aim towards the creation of a simple graphic user interface (GUI) which deals with various operations performed on digital image. Because of MATLAB the making of this project become somewhat easy task.

Basically, in image processing three types of operations can be performed. These are Low level, mid level and high level operations. This project focusing on the low level or more specifically on primitive operations such as image sharpening, contrast enhancement, image cropping ,resizing, edge detection etc.

If an user want to analyze different properties of an image or want to edit it in his own desired form then this GUI will provide a simplest media to do all this.

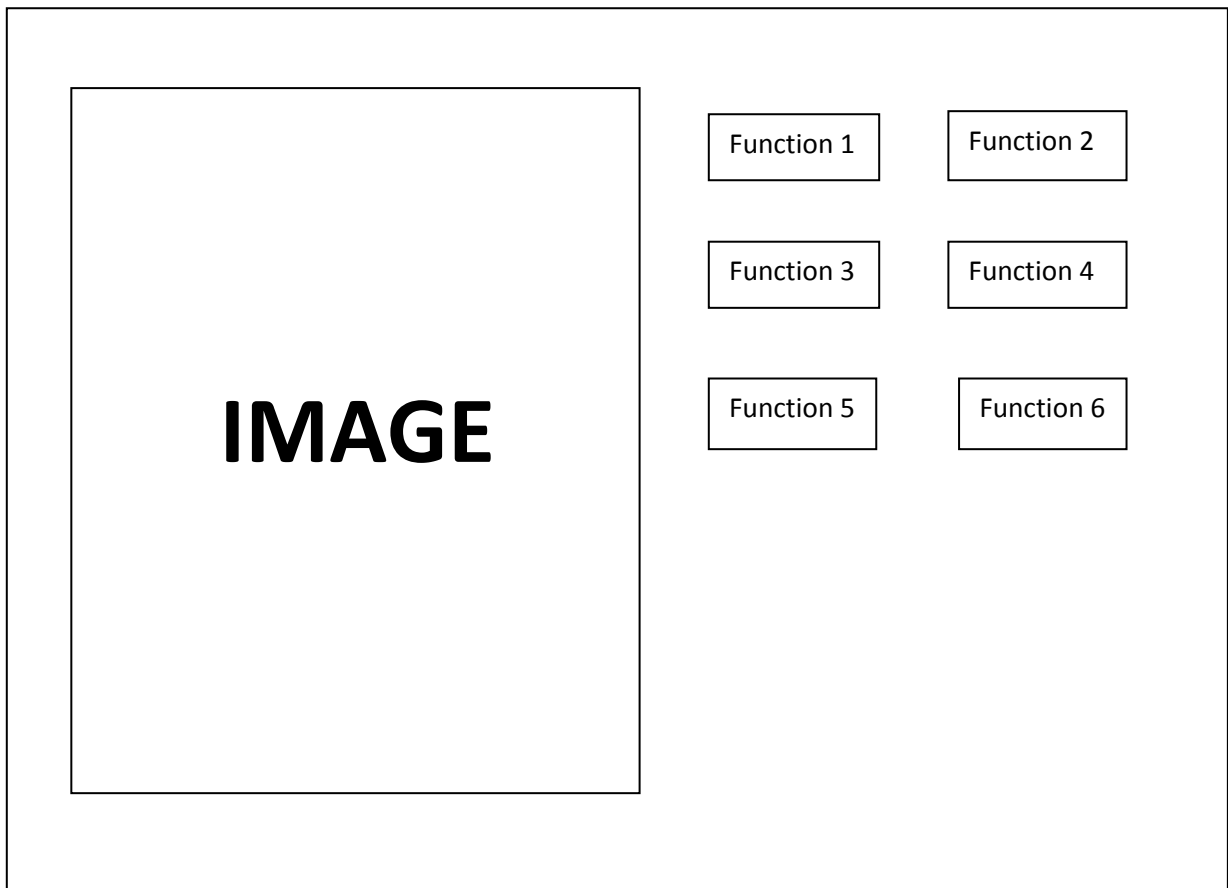


Fig.

Fig. Gives idea of GUI. In the main window image will be called and on this image enhancement operation can be performed. In this project it is expected to perform enhancement operation on the image when any related button is clicked by user (function1, function2 etc. as shown in fig.). Function can be of following type.

- 1) Conversion of RGB image to Gray Scale.
 - 2) Conversion of Gray Scale image to RGB image.
 - 3) Cropping.
 - 4) Zooming.
 - 5) Rotating.
 - 6) Noise removing.
 - 7) Edge detection.
 - 8) Black and white conversion.
 - 9) Complement the image.
 - 10) Multiplication of Image.
 - 11) Subtraction of image
 - 12) Dilation and erosion
- Etc.

By using this function image can be enhanced as per requirement.