

Image Editor

Project By:

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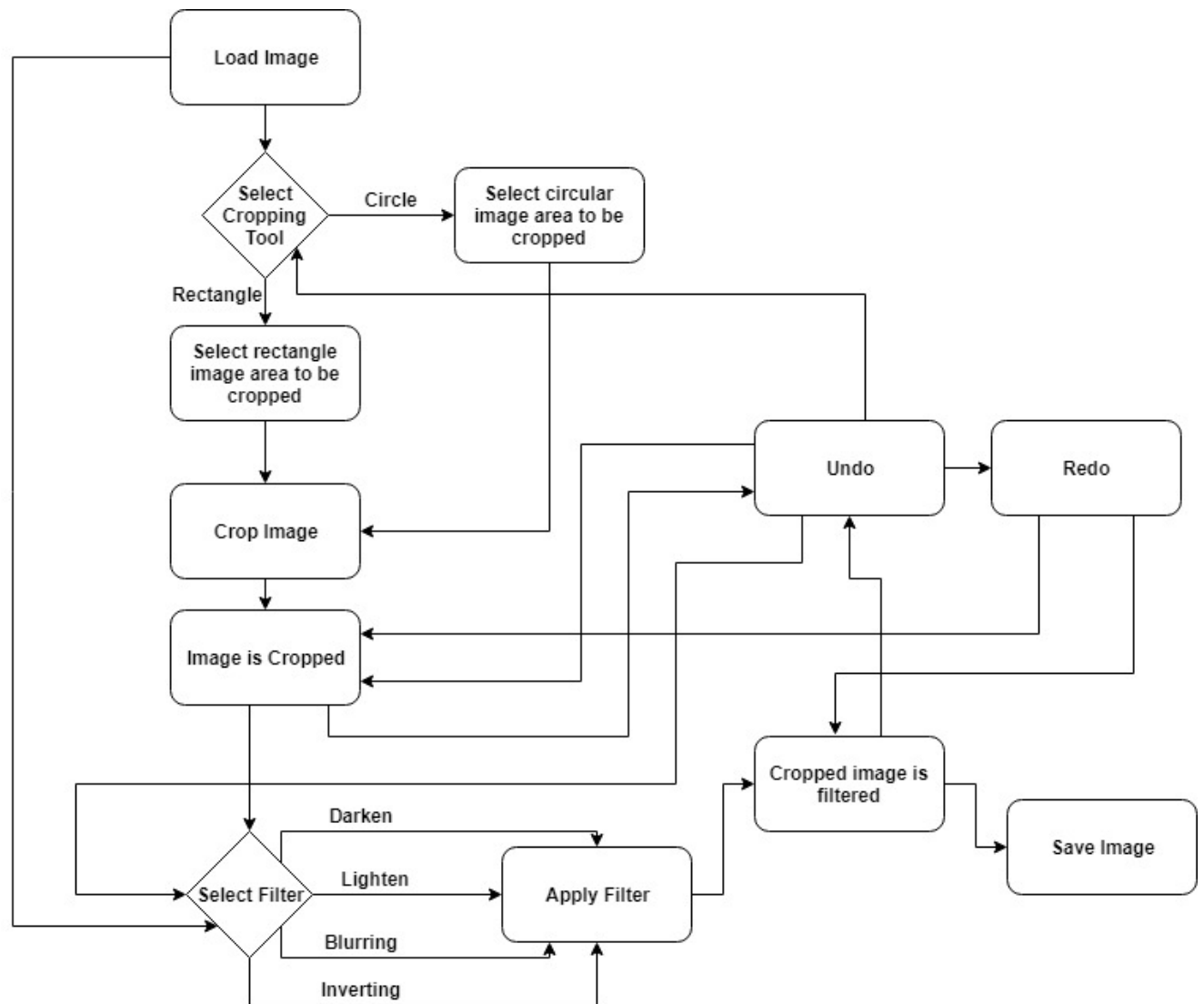
[Wuzzuf](#)

Introduction

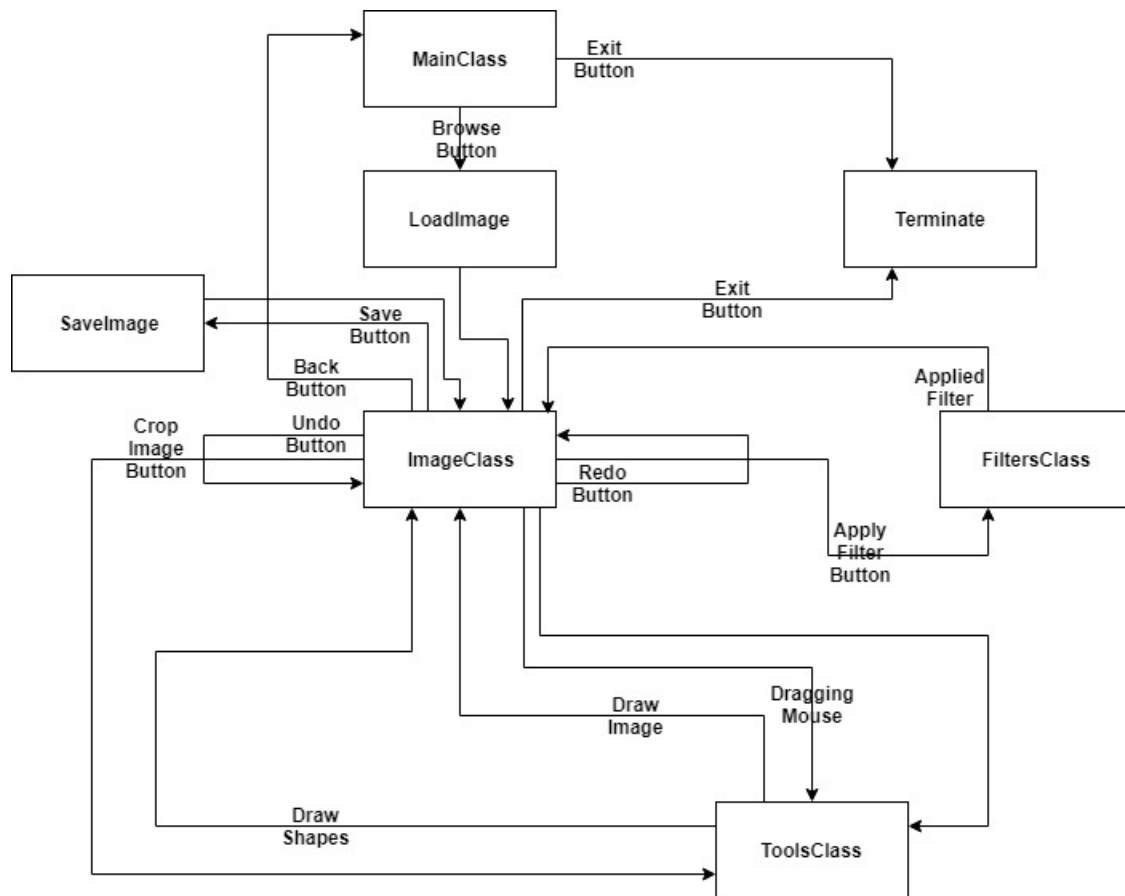
Image manipulation programs like Photoshop include various filters or transformations that are applied to images to produce different effects. In this report we are discussing a project that can apply four different transformations on a loaded image:

- Lighten Images
- Darken Images
- Blur Images
- Invert Images

System Architecture and Design



Structure of the code



Modules Names:

- MainClass
- ImageClass
- ToolsClass
- FiltersClass

Once program runs, MainClass is fired and in this point we have only 2 options:

- Browse
- Exit

If Exit then program terminates; if Browse then an open window appears to select the required image from computer then ImageClass is fired after selecting the image to reconstruct the second frame and call ToolsClass to draw the image.

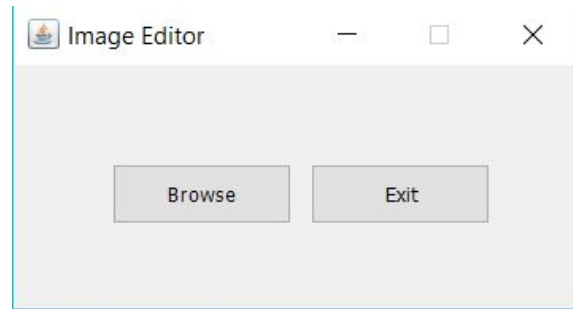
Now, we have 7 options:

- Exit
- Back
- Save
- Undo
- Redo
- Apply Filter
- Crop Image

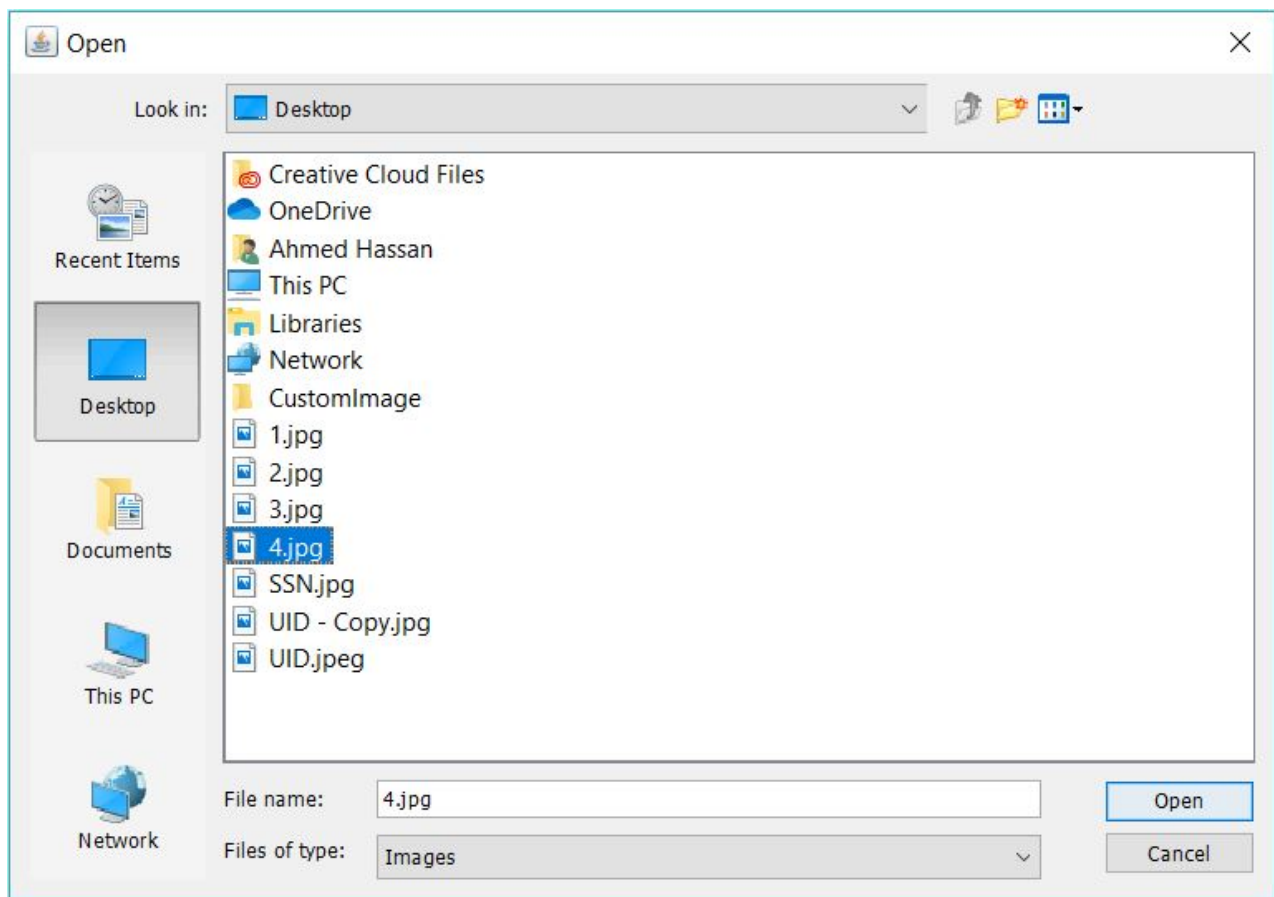
If Exit then program terminates, if Back then MainClass will be fired to select another image, if Save then a save window appears to save the image after editing, Undo is to reset the current editing of the image, Redo is to reset what Undo have been done, Apply Filter fires FiltersClass to apply the filter that have been chosen from the Filter Combo Box to the image then ToolsClass is fired again to redraw the image with the filter, Crop Image fires ToolsClass to crop the image after firing ToolClass to draw the shape that have been chosen from the Tool Combo Box with the coordinates specified by a mouse drag then ToolsClass if fired again to redraw the cropped image.

User Interface

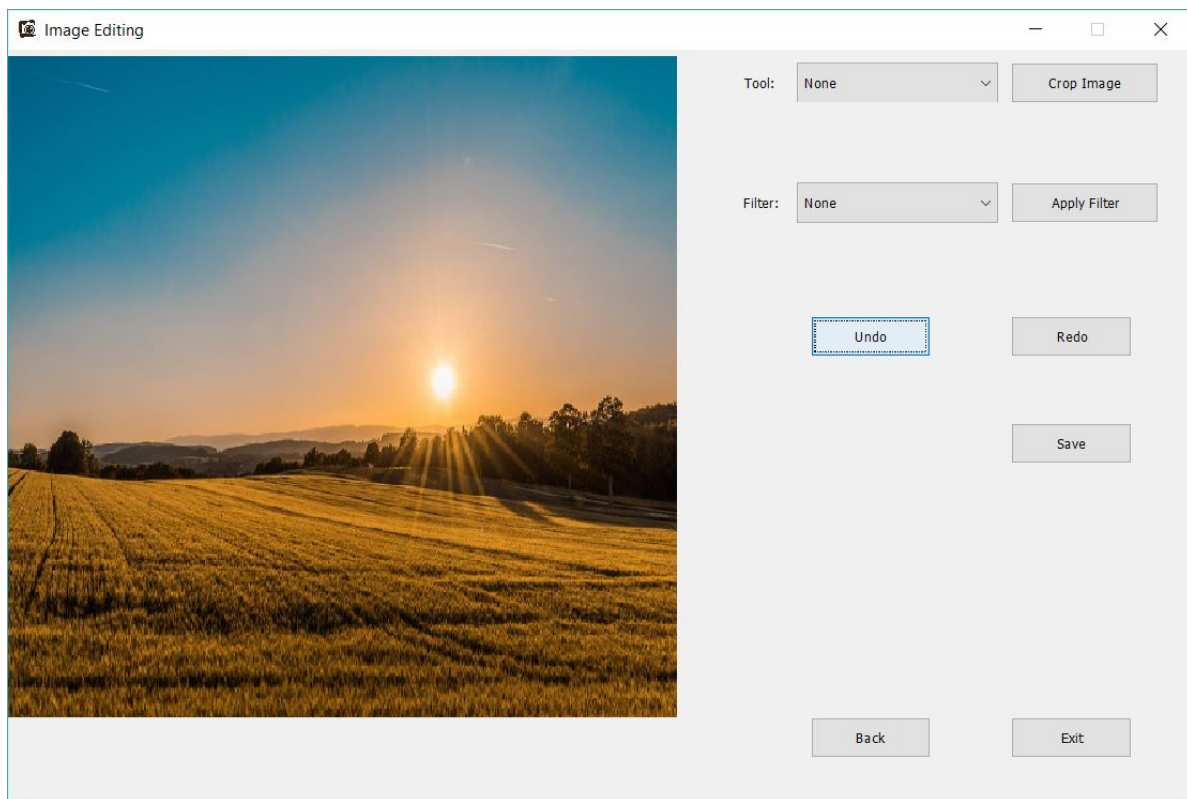
1.



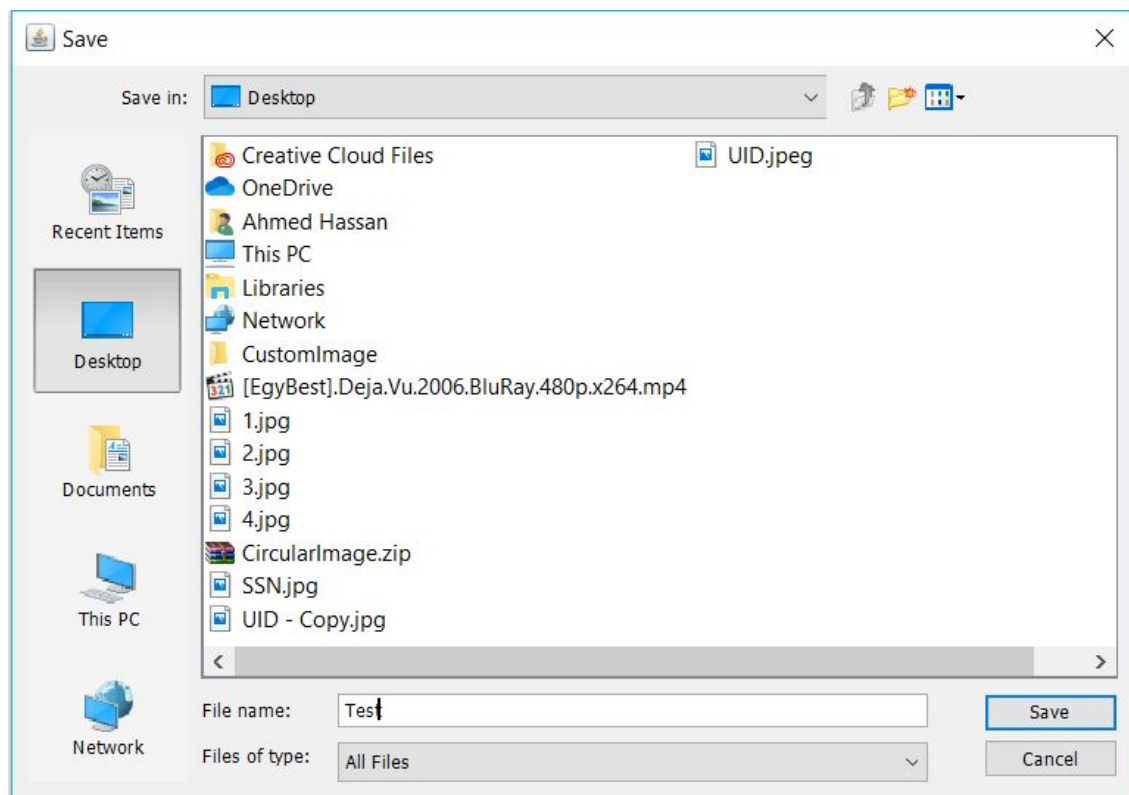
2.



3.

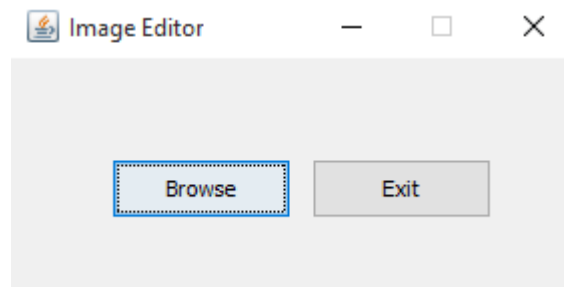


4.



Project Features

Load image



Crop (Circle/Rectangle)

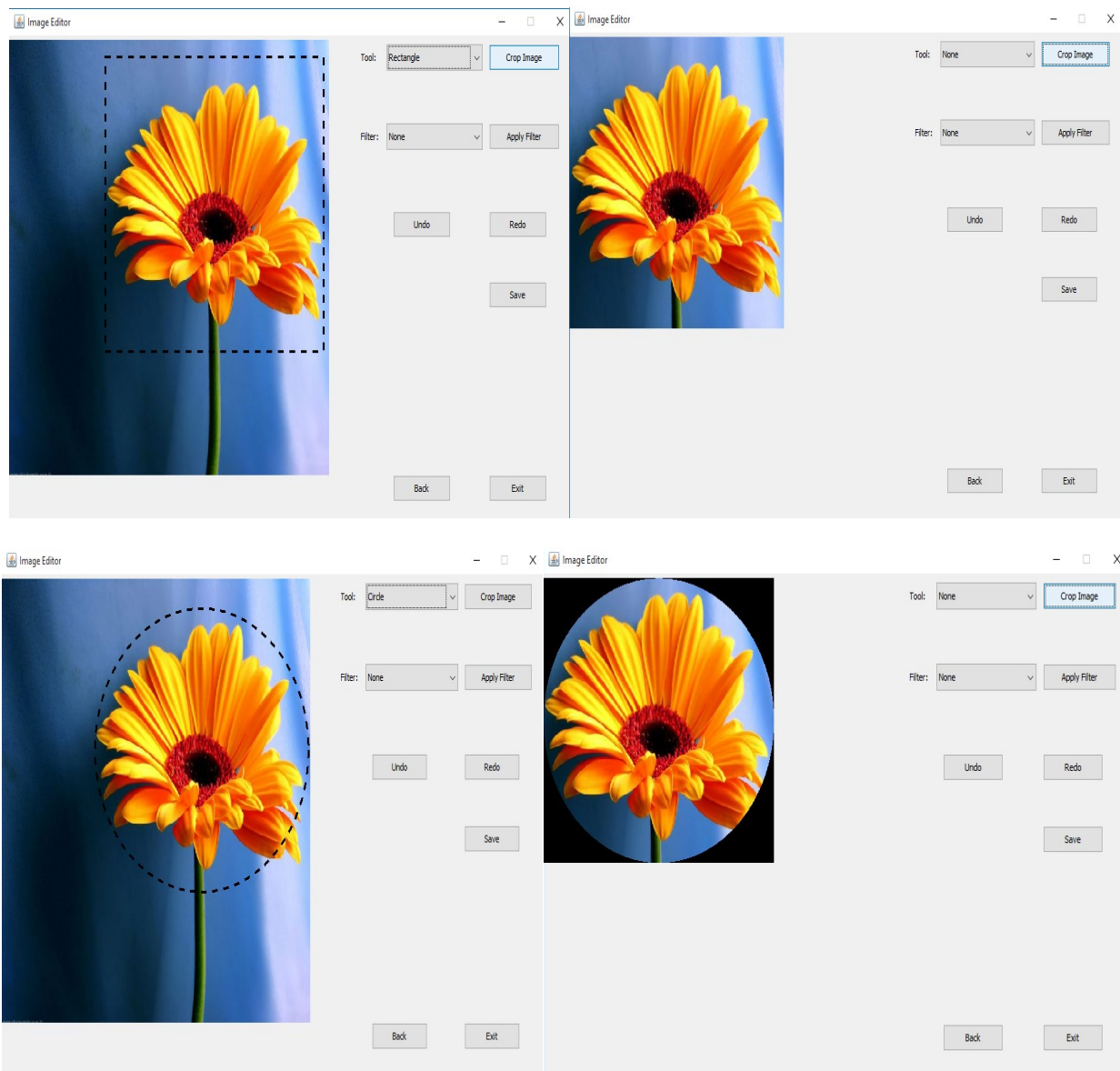
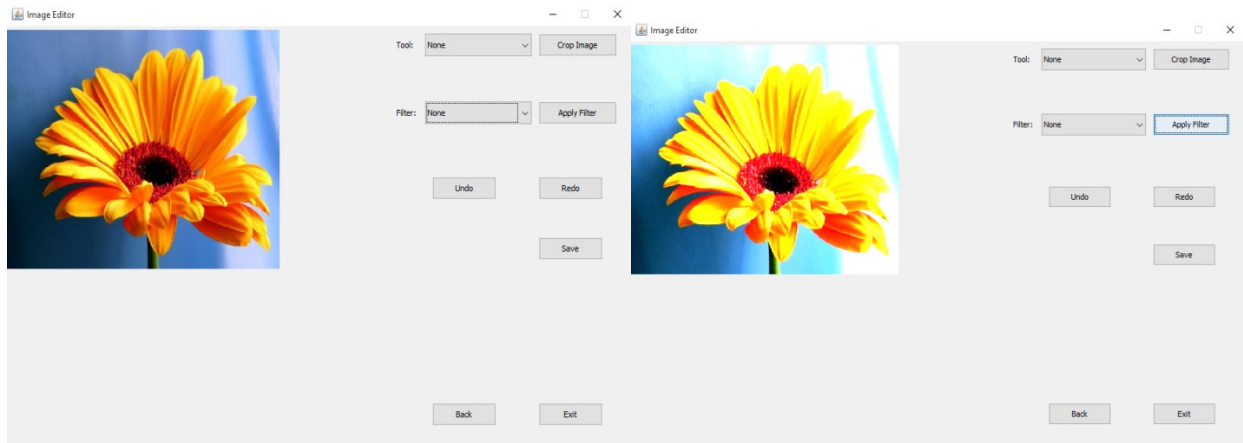
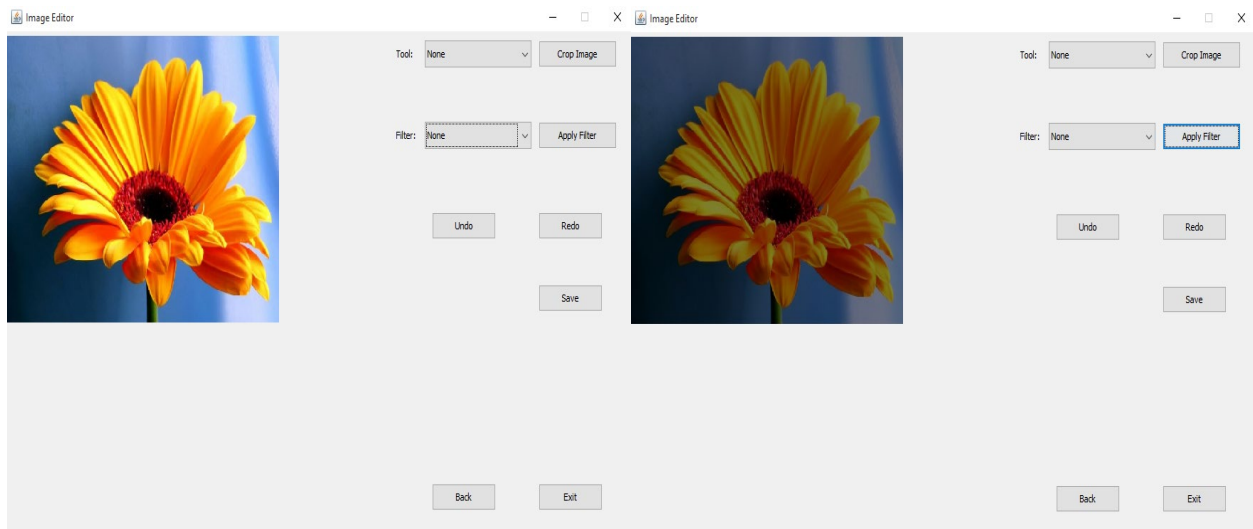


Image Filter

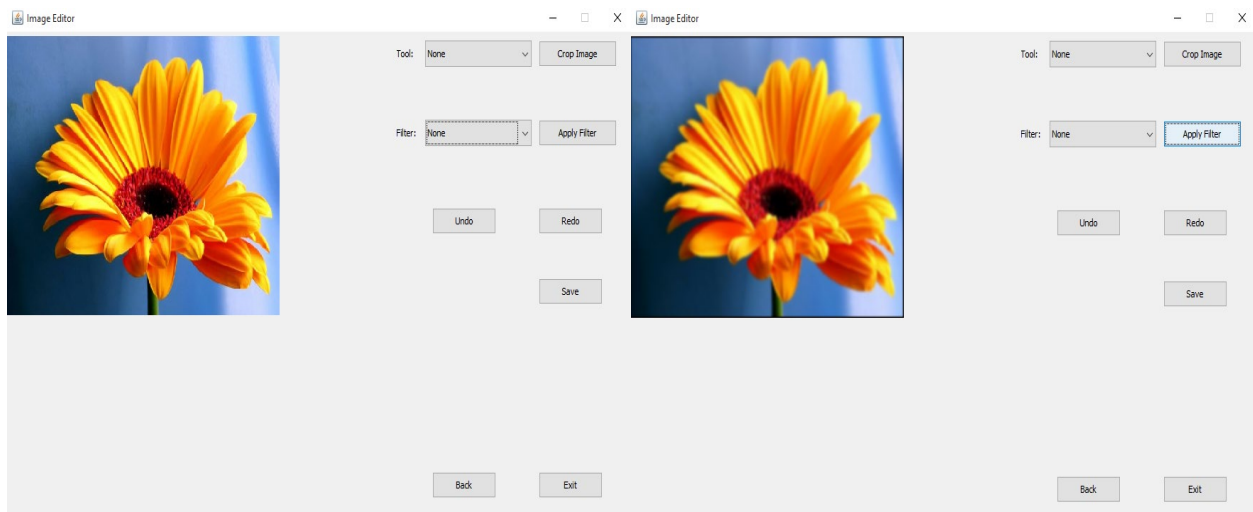
Light



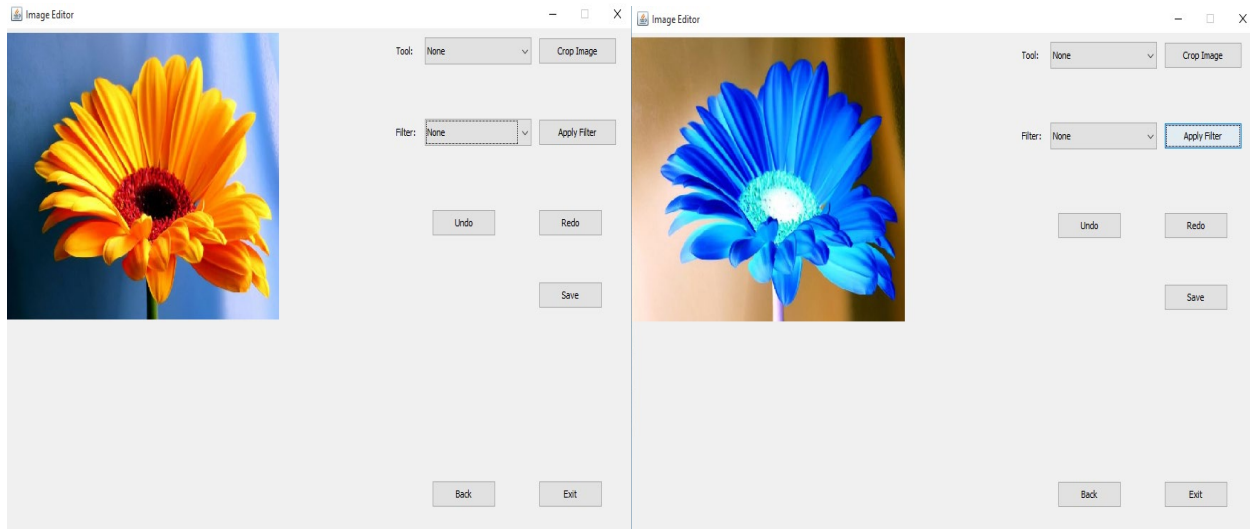
Dark



Blur



Invert



Timesheet

	Requirements	Duration	Start	End
1	Image load	20 minutes	30/6/2019	30/6/2019
2	Rectangular area selection	4 hours	1/7/2019	1/7/2019
3	Circular area selection	4 hours	1/7/2019	1/7/2019
4	Selected area can be lighten	1 hour	2/7/2019	2/7/2019
5	Selected area can be darken	1 hour	2/7/2019	2/7/2019
6	Selected area can be blurred	1 hour	2/7/2019	2/7/2019
7	Selected area can be inverted	1 hour	3/7/2019	3/7/2019
8	Selected area is drawn dashed	1 hour	3/7/2019	3/7/2019
9	User can save image after editing	1 hour	3/7/2019	3/7/2019
10	User can undo/redo edits done to the opened image	4 hour	4/7/2019	4/7/2019