

**INFO 5100**

**Application Engineering and Development**

**Image Management Tool Project Report**

**Instructor:**

Taral Oza

[taral.educator@gmail.com](mailto:taral.educator@gmail.com)

**Teaching Assistant:**

Lumi Chu

[chu.dan@husky.neu.edu](mailto:chu.dan@husky.neu.edu)

**Group members:**

Meinan Wang

001386565

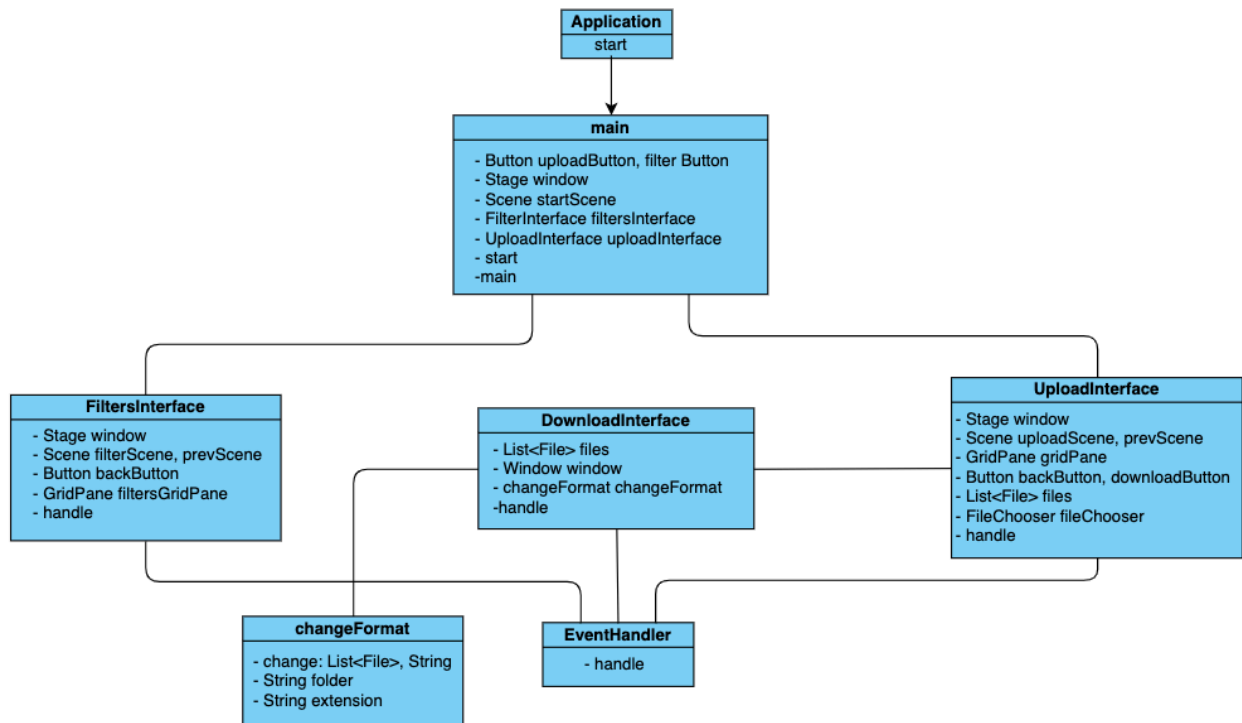
[wang.mei@husky.neu.edu](mailto:wang.mei@husky.neu.edu)

Youting Wang

001054058

[wang.yout@husky.neu.edu](mailto:wang.yout@husky.neu.edu)

# Class diagram



## **How to use the image management tool?**

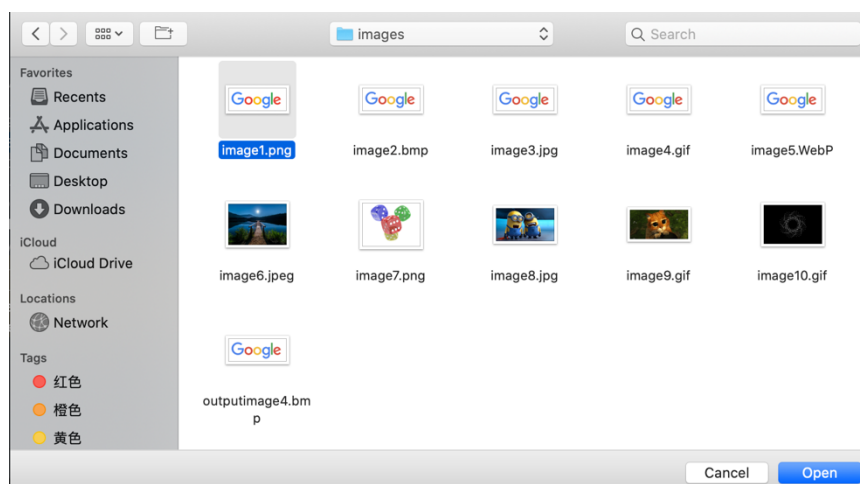
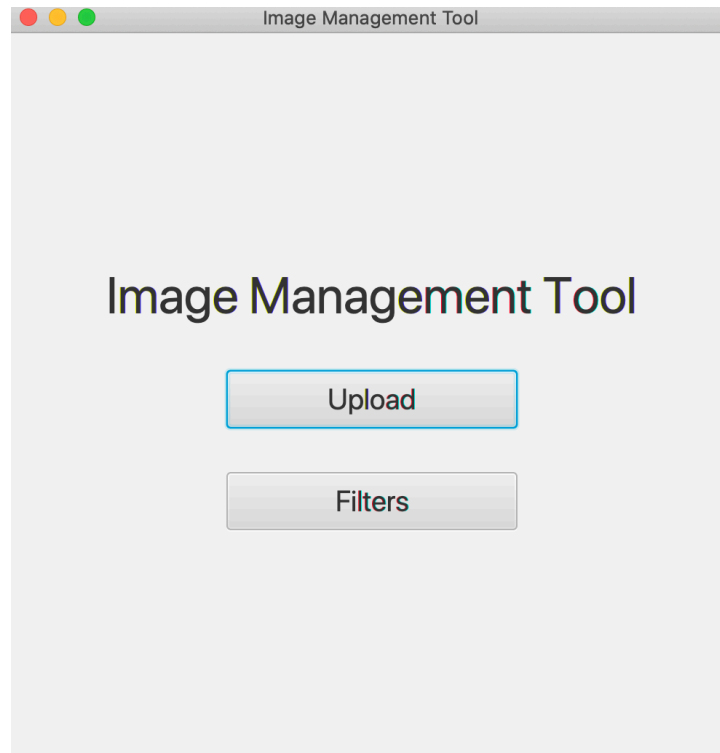
1. Import the file into IntelliJ.
2. Run the project.
3. After step 2, there are two buttons in the window: "Upload" and "Filters".
4. Click the "Upload" button, users can upload one or more images at the same time.
5. After uploading the images, users will see the selected images, shown as 100 \* 100, in the redirected page. Users can also access the properties of the image by putting mouse on the image.
6. Two choices are provided after users upload images: go back to previous page or download converted images.
7. When users click "Download" button, they will see a window to choose a desired format, including: JPG, PNG, BMP and GIF.
8. Another function is to apply filters to images. Users can click the "Filters" button to adjust color of images.

# Test cases

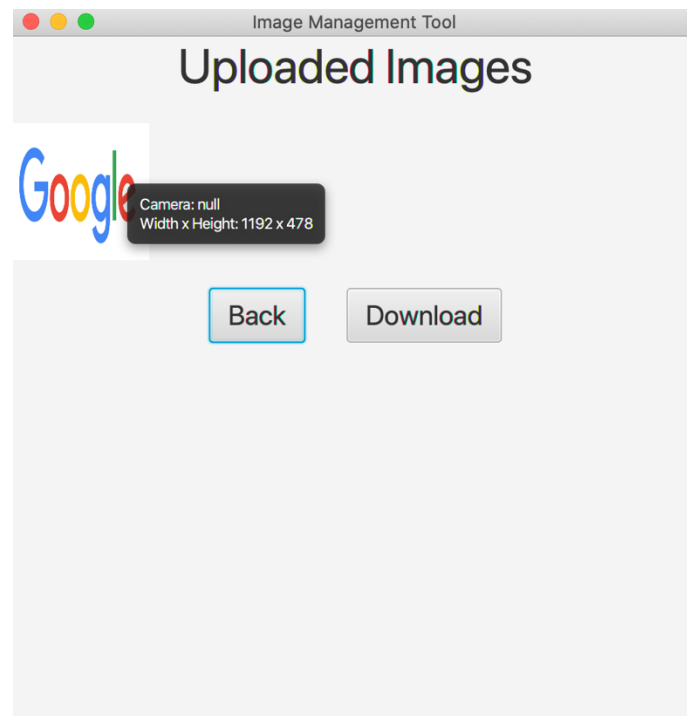
## Test case 1:

**Test whether users can upload single image.**

1. Click upload button and select one image to upload.



2. After redirect, image is displayed in the “Uploaded Images” page.

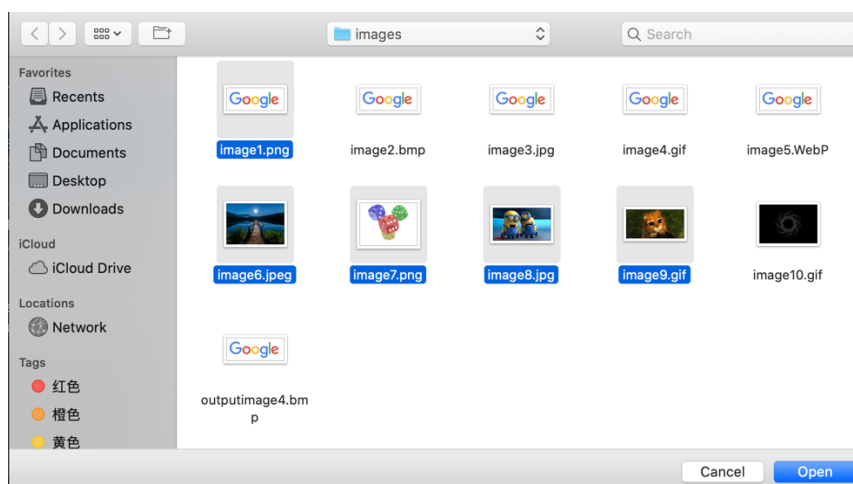


**Result: Pass, users can upload single image.**

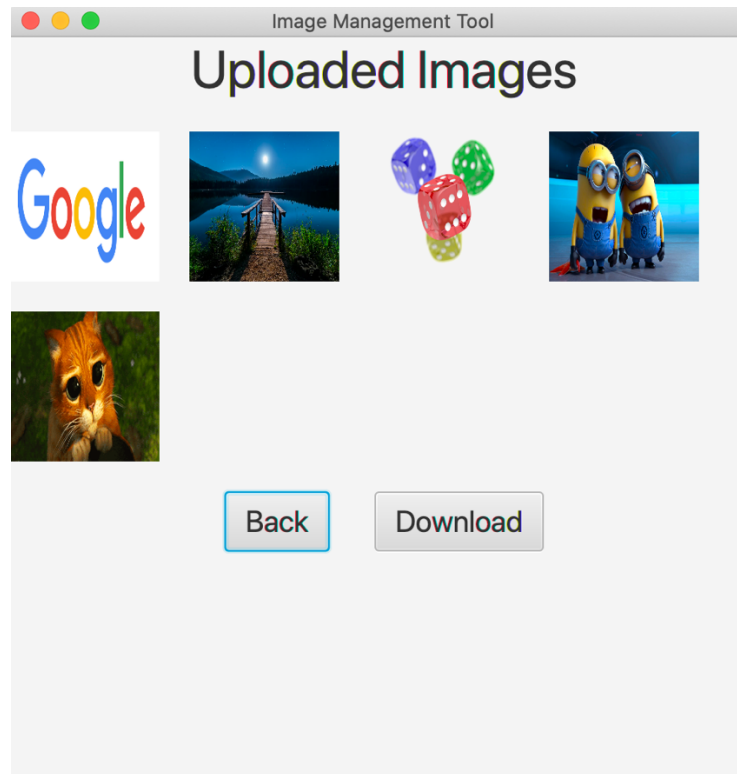
### **Test case 2:**

**Test whether users can upload multiple images at the same time.**

1. Click upload button and select multiple images to upload.



2. After redirect, images are displayed in the "Uploaded Images" page.

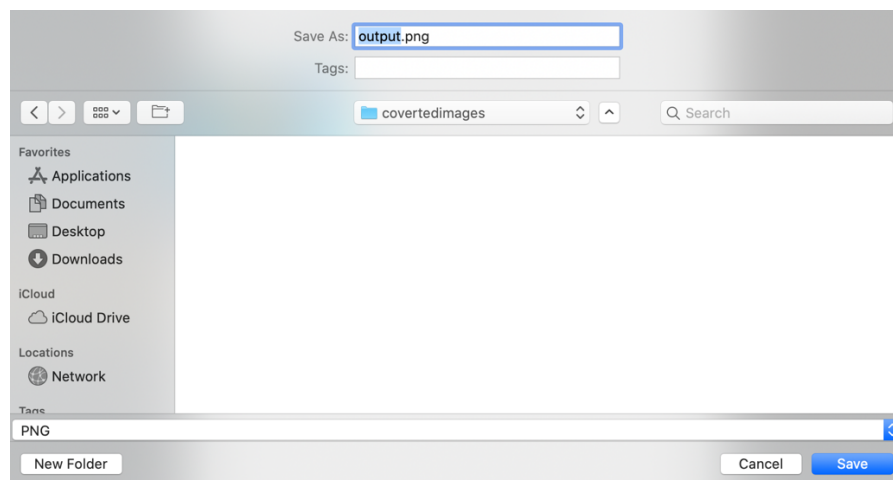


**Result: Pass, users can upload multiple images at the same time.**

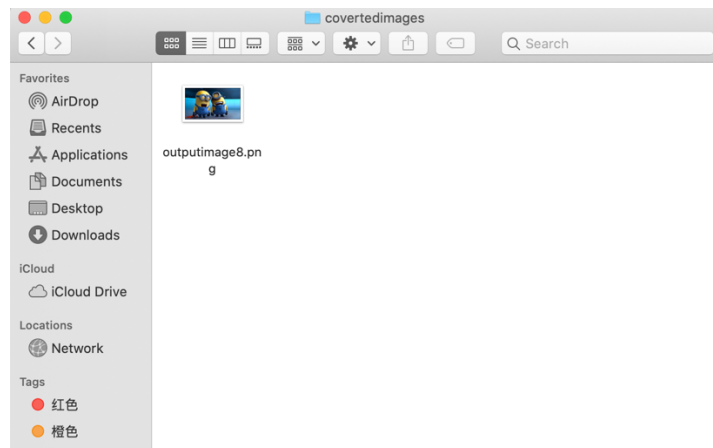
### **Test case 3:**

**Test whether users can convert images to different formats (PNG/BMP/JPG/GIF) and download.**

- Convert images to PNG format and download.
  1. After upload images, click download button to save image as PNG format.

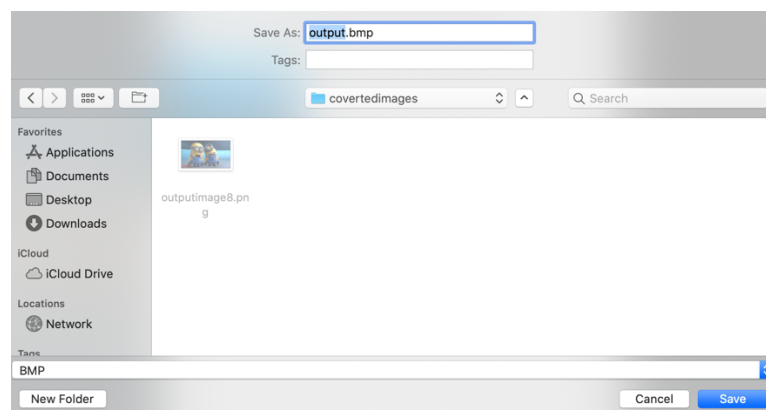


2. Check the target folder to confirm the conversion is done.

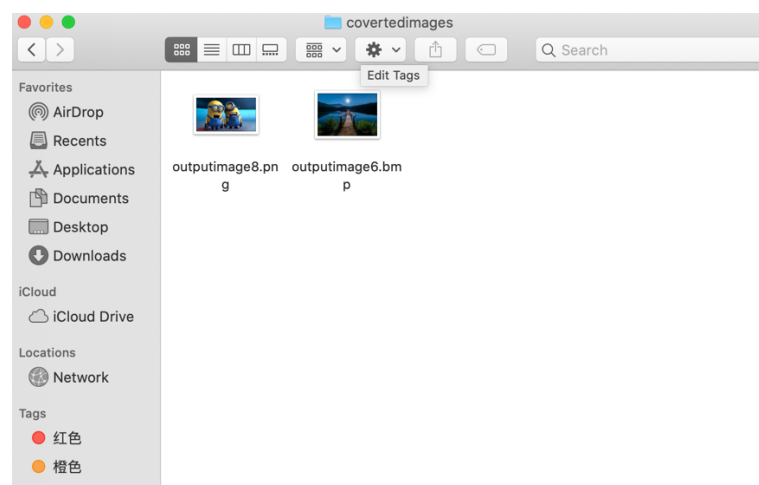


- Convert images to BMP format and download.

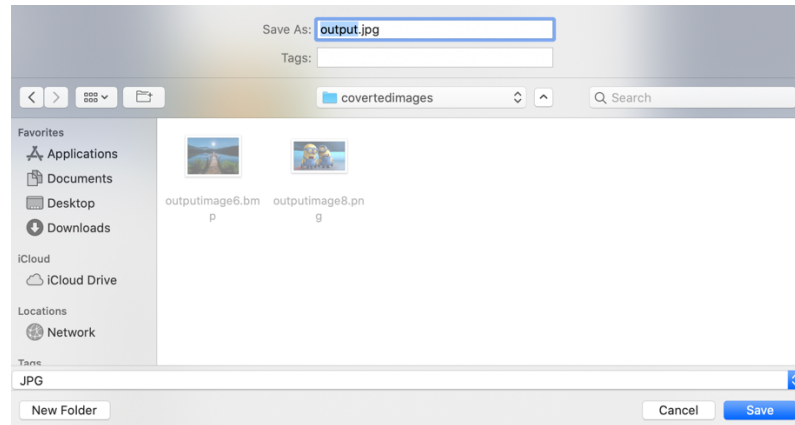
1. After upload images, click download button to save image as BMP format.



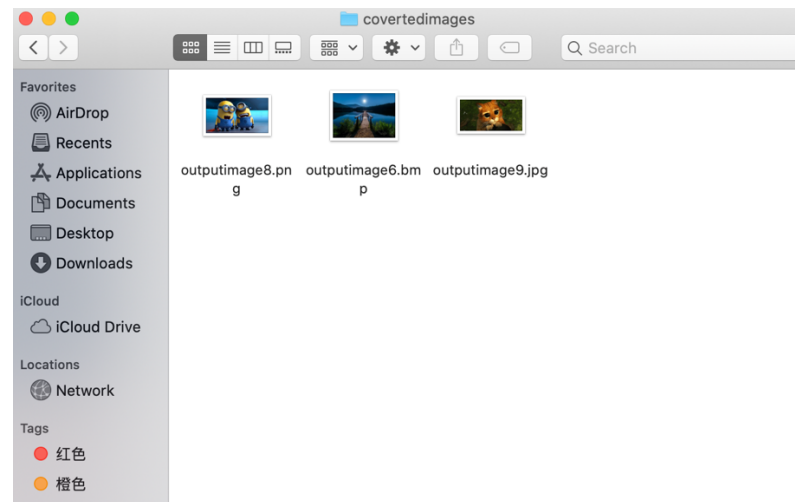
2. Check the target folder to confirm the conversion is done.



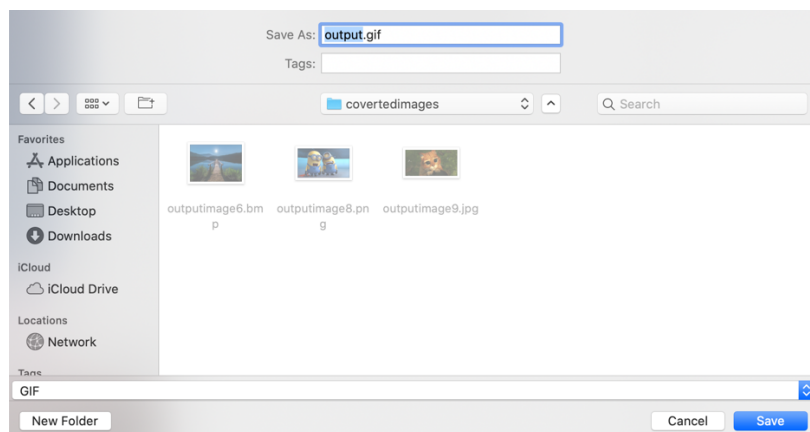
- Convert images to JPG format and download.
  1. After upload images, click download button to save image as JPG format.



2. Check the target folder to confirm the conversion is done.

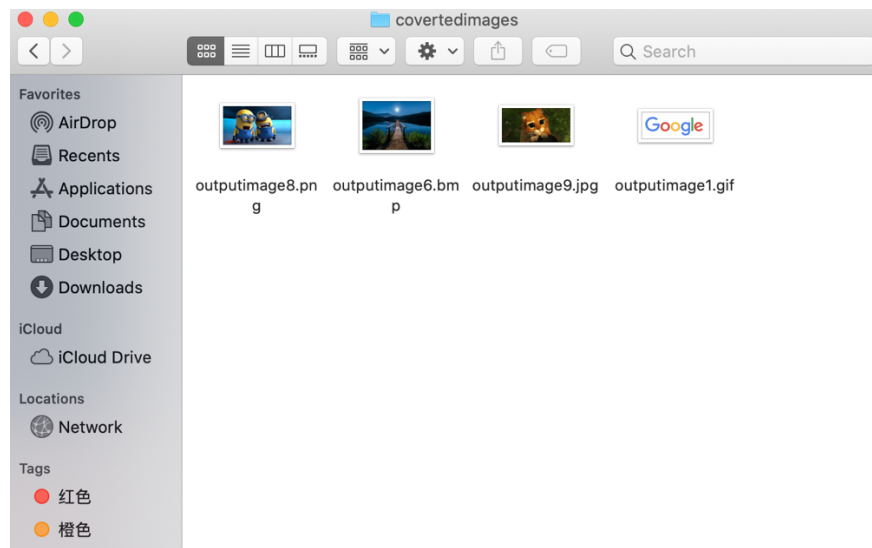


- Convert images to GIF format and download.
  1. After upload images, click download button to save image as GIF format.





2. Check the target folder to confirm the conversion is done.

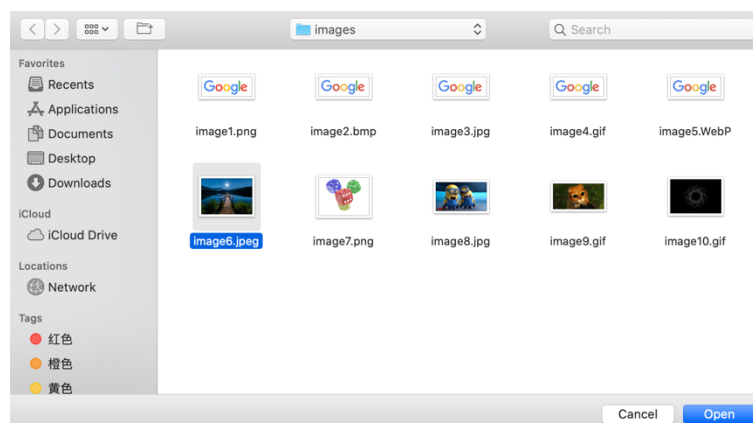


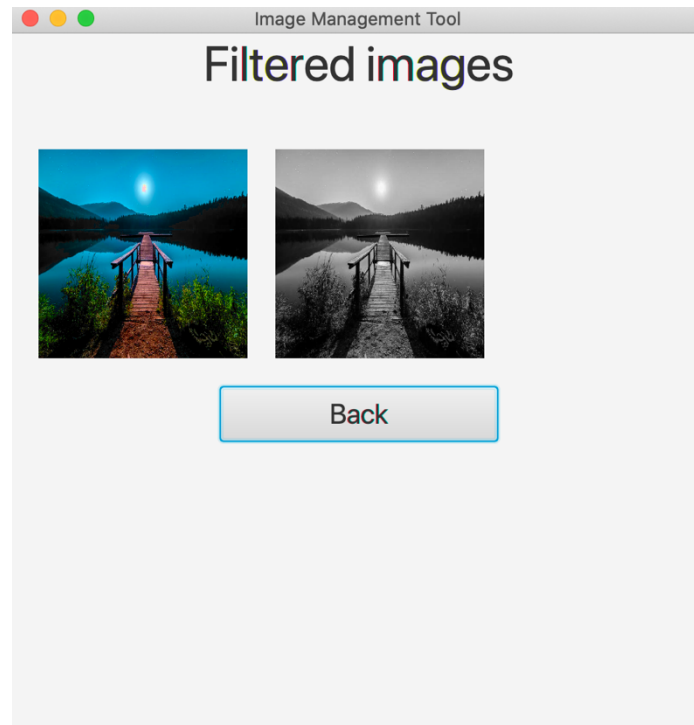
**Result: Pass, users can convert images to different formats (PNG/BMP/JPG/GIF) and download.**

#### **Test case 4:**

**Test whether users can use filter function.**

Select one image and check the filtered images in the redirected page.





**Result: Pass, users can use filter function.**