

# Image Management Tool Project Report

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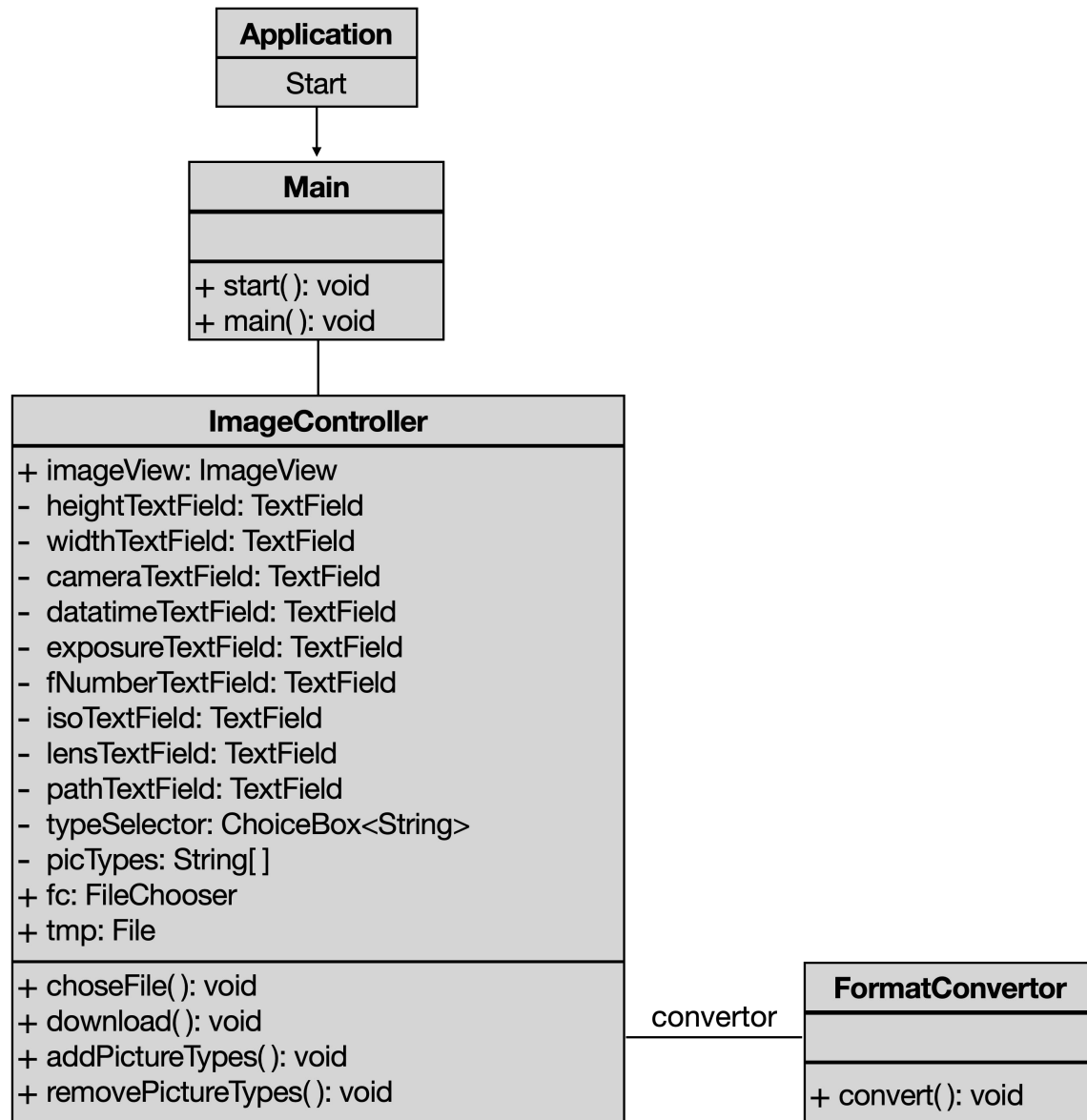
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Jing Dong

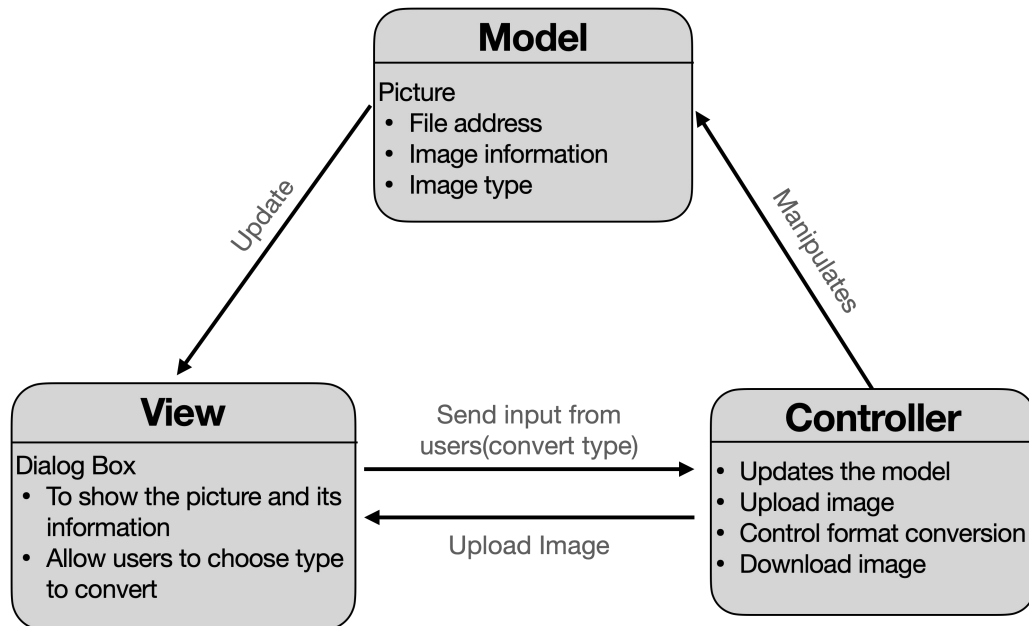
001548184

[dong.jin@northeastern.edu](mailto:dong.jin@northeastern.edu)

## Class Diagram



## Design Pattern -- MVC



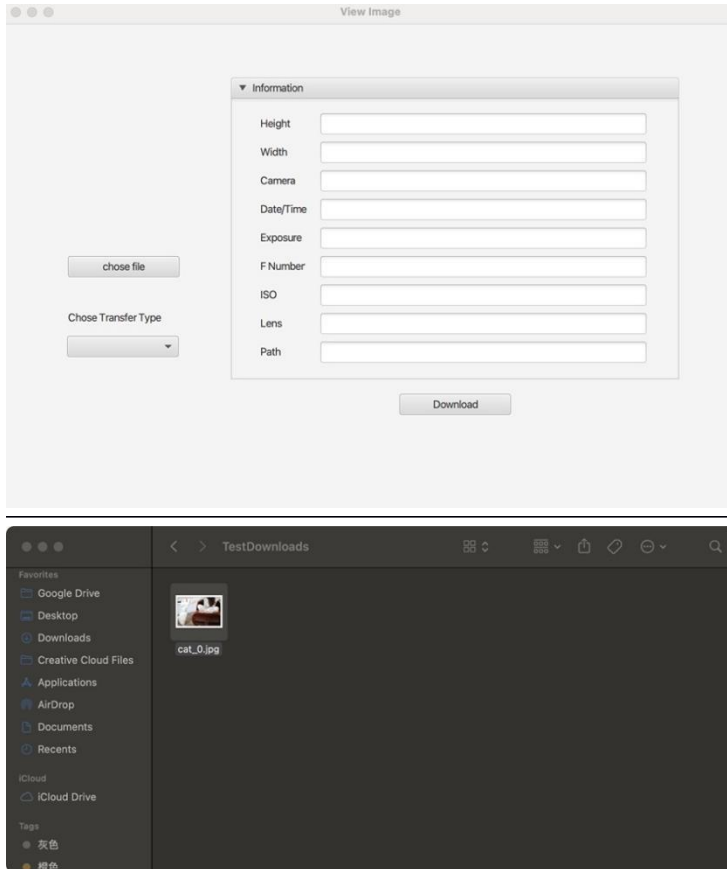
## How to use the image management tool?

1. Import the file into IntelliJ.
2. Run the project.
3. After step 2, there is a “choose file” button in the window.
4. Click the “choose file” button, users can choose one image from local computer.
5. After uploading the image, users will see the selected image, shown as 100 \* 100 in the window as well as the properties of the image.
6. Two choices are provided after users upload images: re-select an image by clicking “choose file” button or download (converted) images.
7. Users are able to choose a desired format, including: JPG, PNG, JPEG, BMP and GIF in the window. When they click “Download” button, the selected image will be downloaded in proper type and saved to local computer. Users are able to rename it and save it to the selected file in the pop-up window.

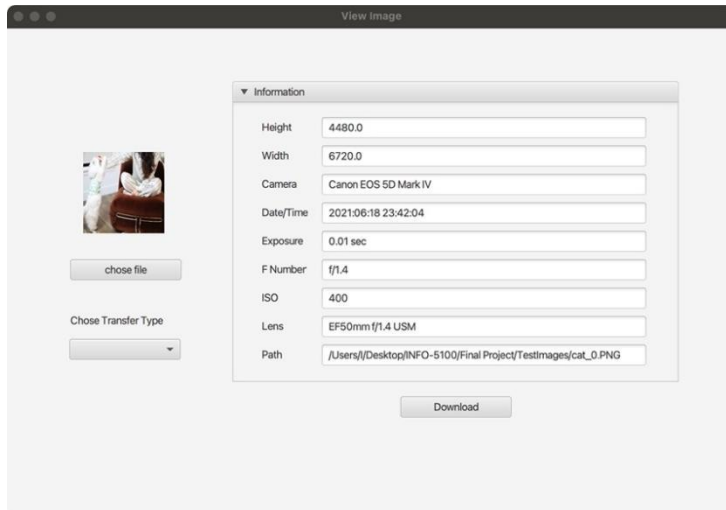
## Test Cases

### Test Case #1: Test whether users can upload a single image.

1. Click “choose file” button and select one image to upload:



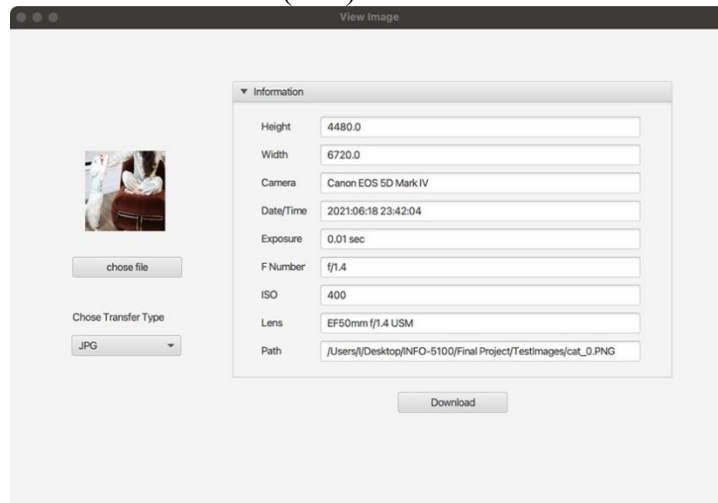
2. The selected image is shown as 100 \* 100 in the window as well as its properties:



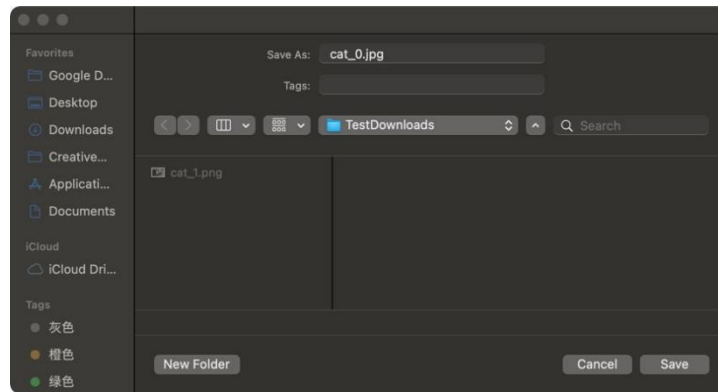
**Result: Pass, users can upload a single image.**

**Test Case #2: Test whether users can covert the image to different formats and download.**

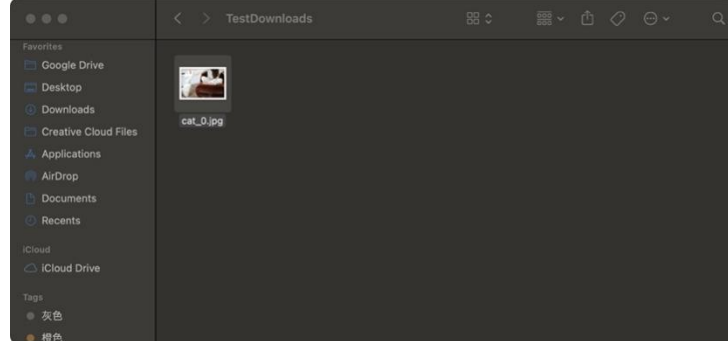
1. Convert images to JPG format and download.
  - a. Select desired format(JPG).



- b. Click download button to save the image.

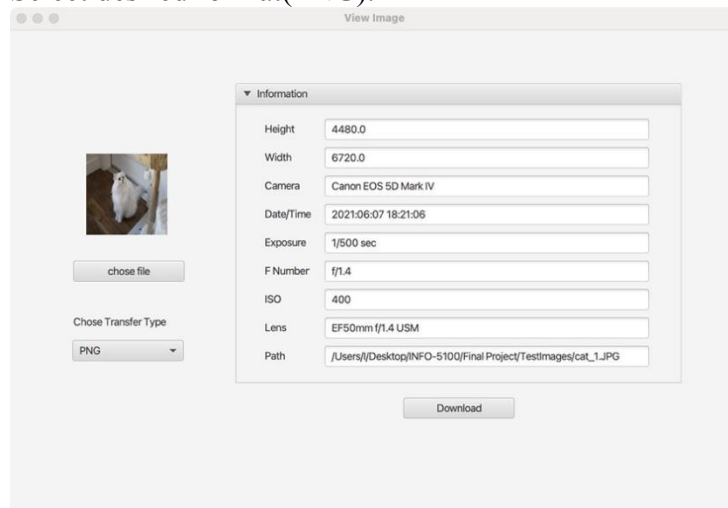


- c. Check the target folder to confirm the conversion is done.

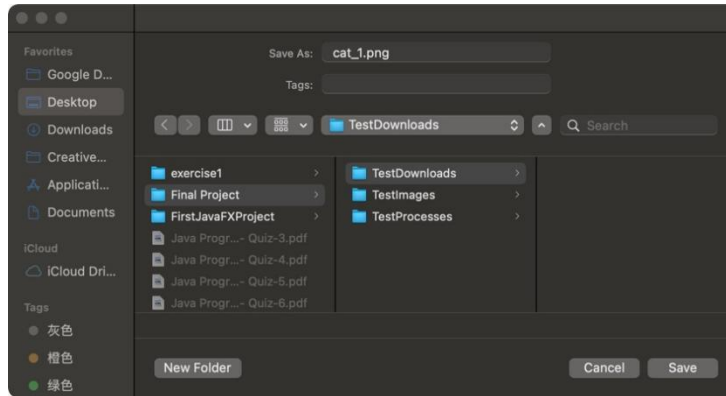


2. Convert images to PNG format and download.

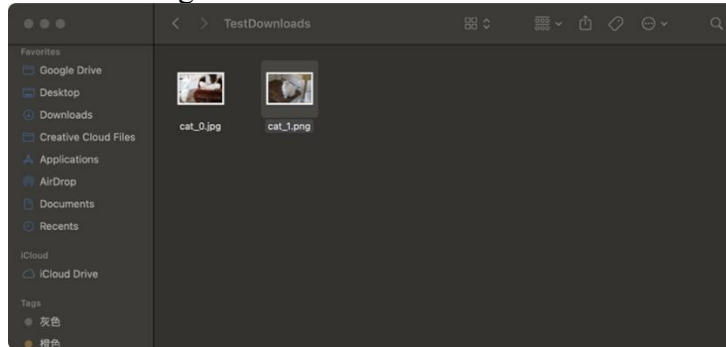
- a. Select desired format(PNG).



- b. Click download button to save the image.

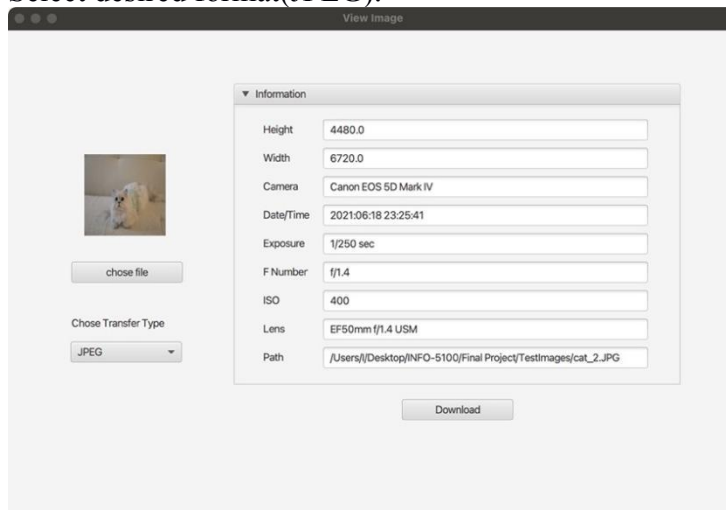


- c. Check the target folder to confirm the conversion is done.



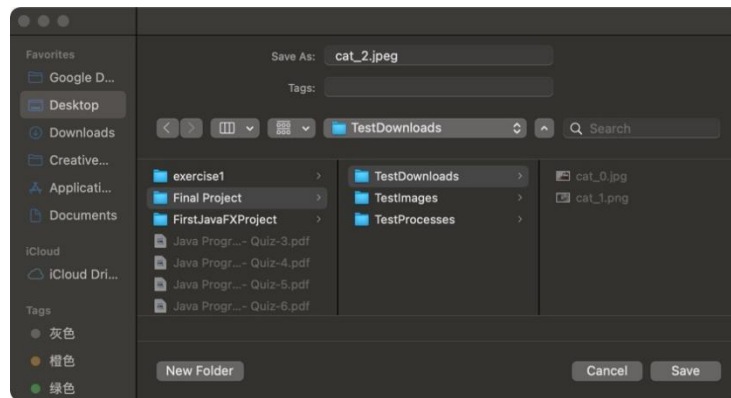
3. Convert images to JPEG format and download.

- a. Select desired format(JPEG).

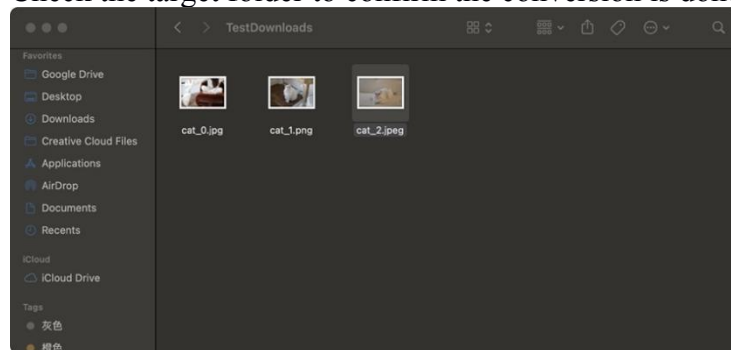


- b. Click download button to save the image.



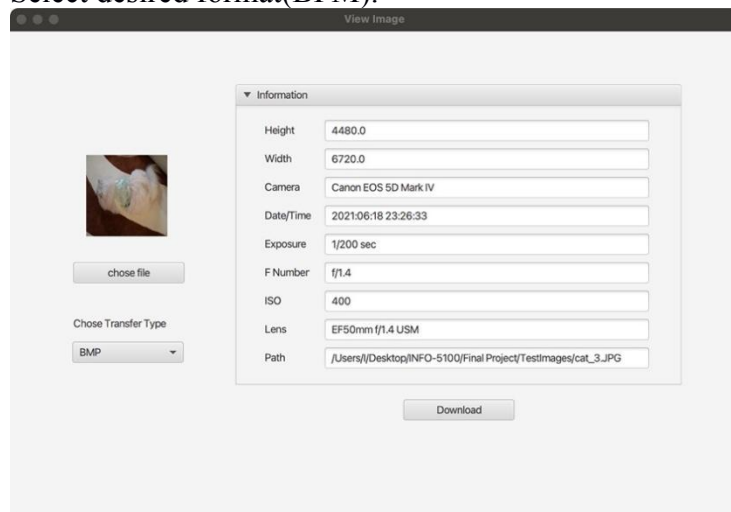


- c. Check the target folder to confirm the conversion is done.

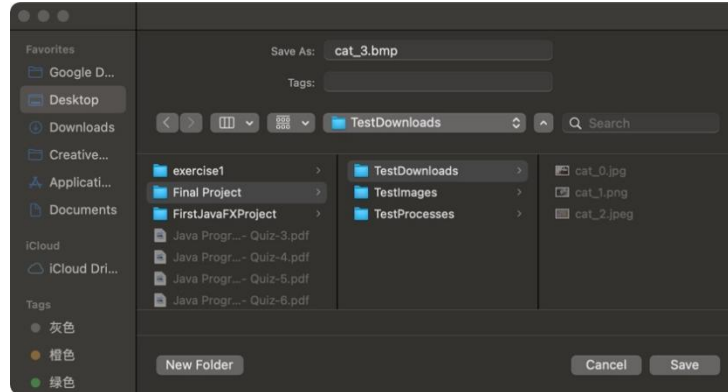


4. Convert images to BMP format and download.

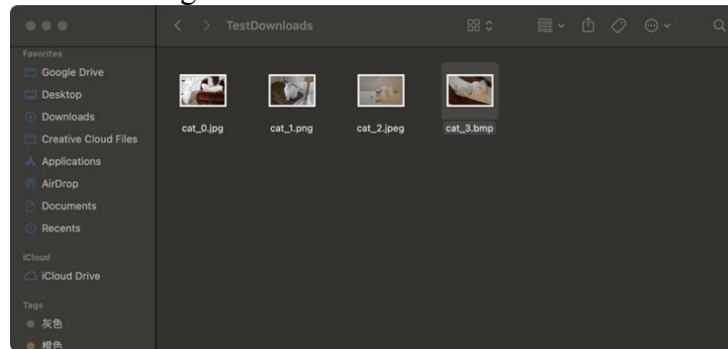
- a. Select desired format(BPM).



- b. Click download button to save the image.

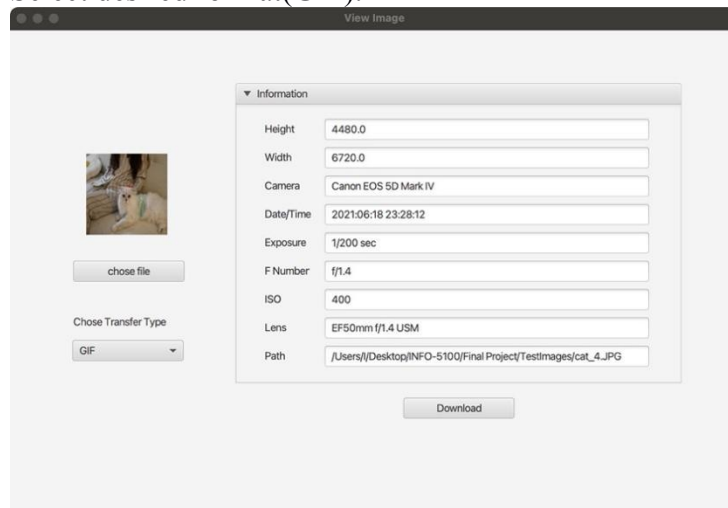


- c. Check the target folder to confirm the conversion is done.

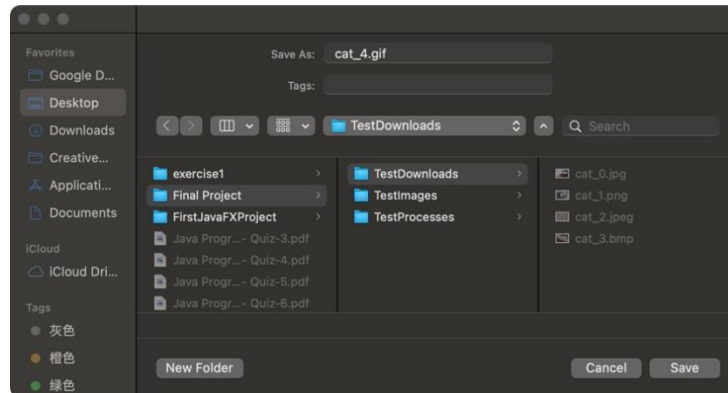


## 5. Convert images to GIF format and download.

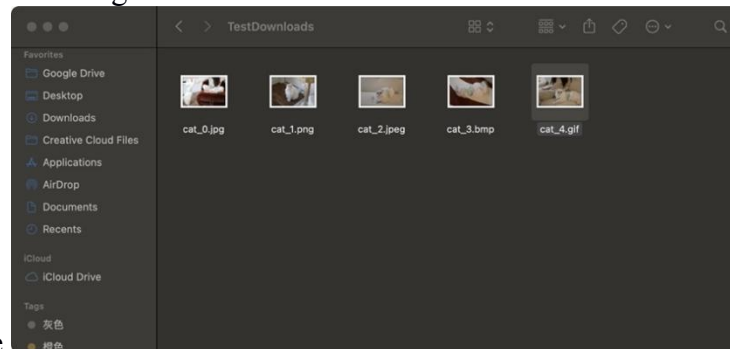
- a. Select desired format(GIF).



- b. Click download button to save the image.



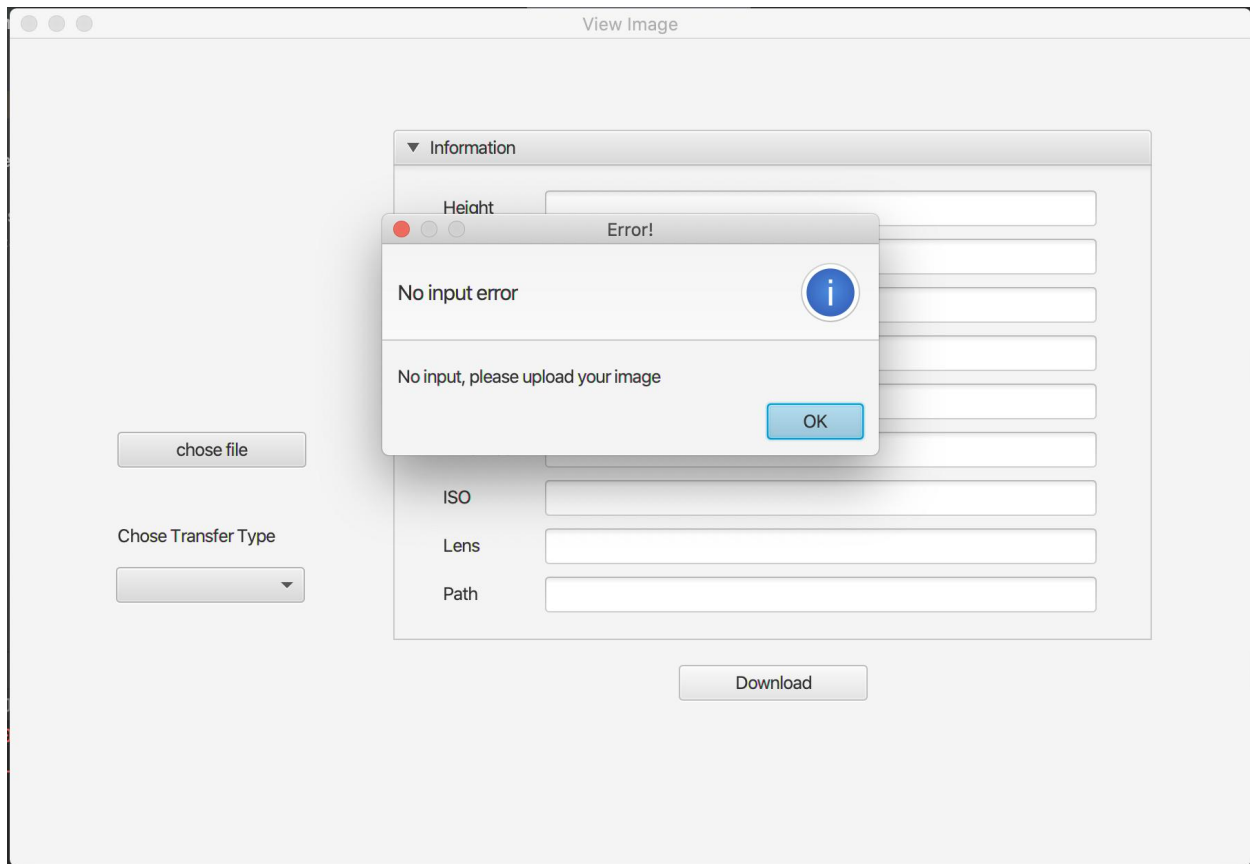
- c. Check the target folder to confirm the conversion is



done.

**Result: Users can convert the image to different formats and download.**

**Test Case #3: Test if there is no image input**



**Result:** There will be an error message and tell users to upload the image.