

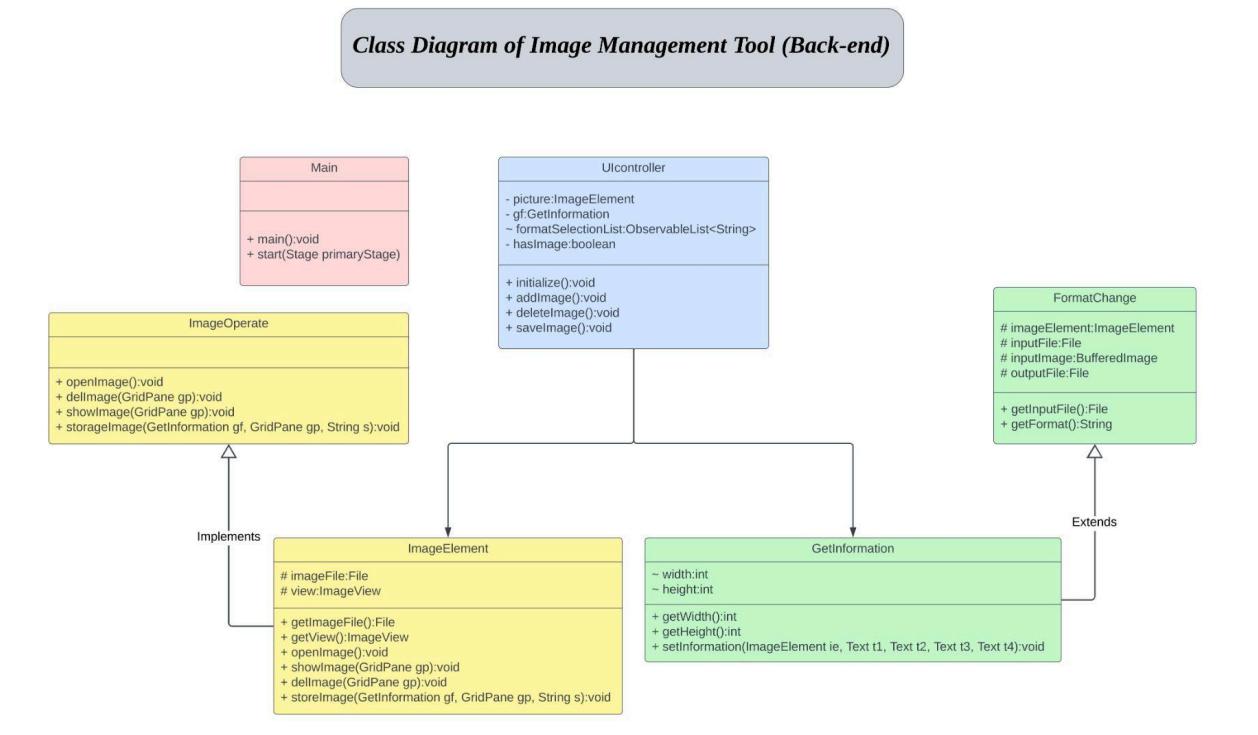
# INFO 5100 Final Project Image Management Tool

Developed by Wancen Yang and Xingtong Wang

## Overall Introduction

The Image Management System is a useful tool that helps users transform image format easily. The tool currently supports image format transformation between images within “PNG”, “JPG” and “JPEG” formats.

The diagram below presents the back-front class structure of the image management tool. The application is constructed by four classes (extra Main) and one inference. Class ImageElement class implements methods in the ImageOperate inference and FormateChange class is the sub-class of Getformation class.

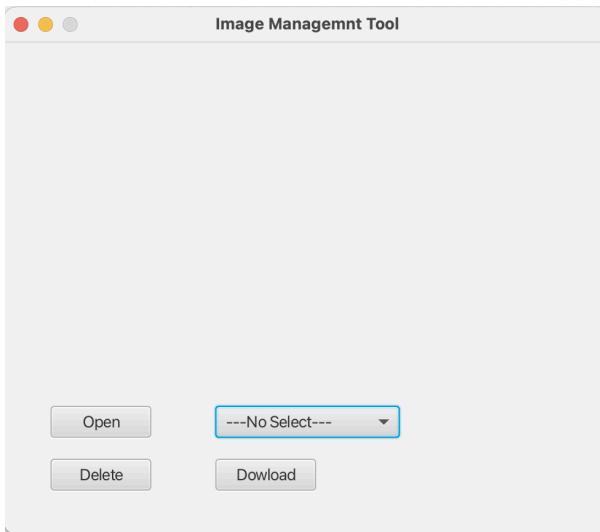


The team also uses XML language and JavaFx to develop the GUI of the application, which is connected with the UIController class in the diagram.

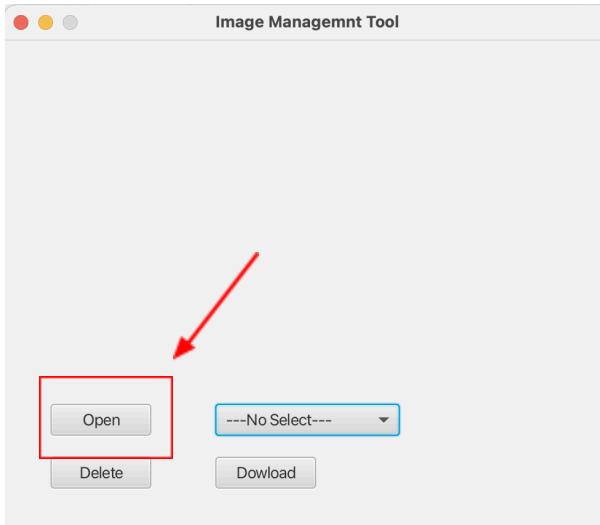
## Operation Guidance

The contents in this section give a rough guidance of how to operate the image management tool to the user.

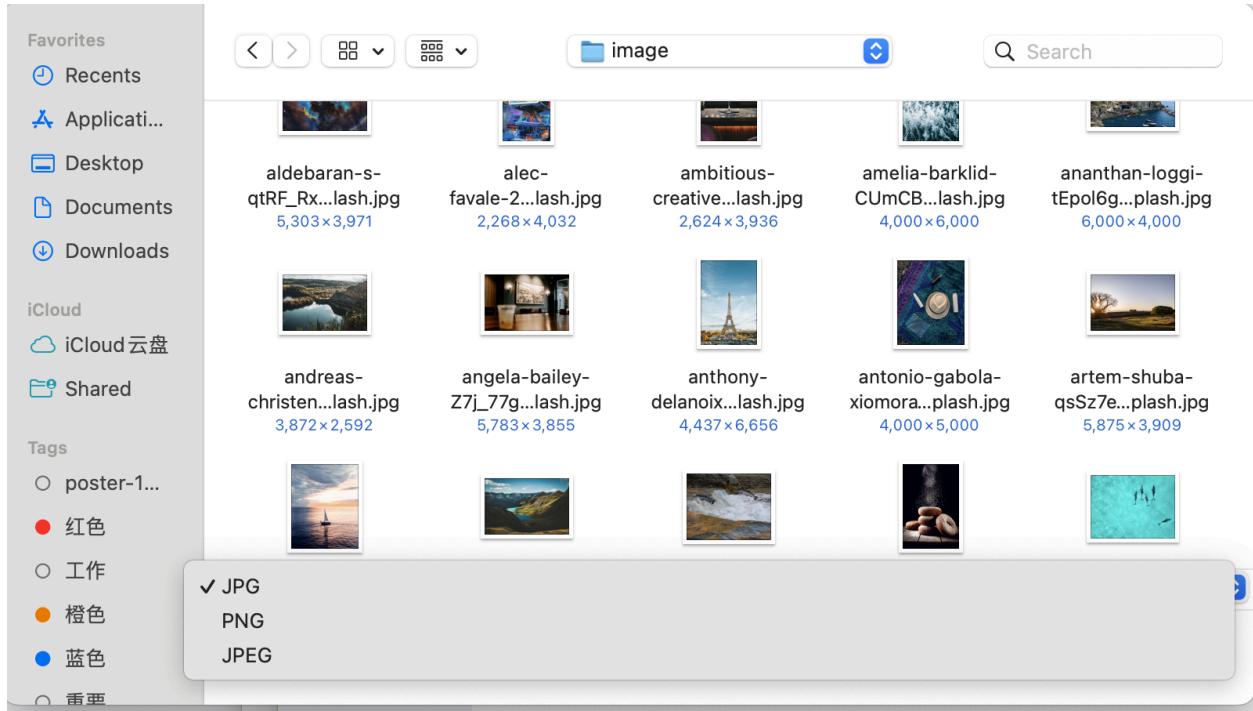
After Running the application, the user will find the homepage of the tool.



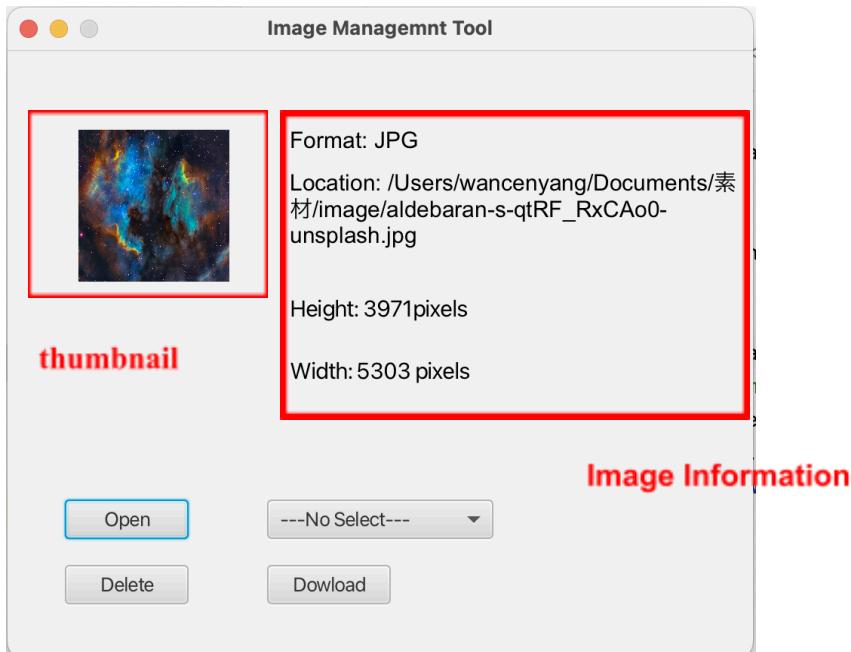
To open an image, the user needs to click the 'open' button.



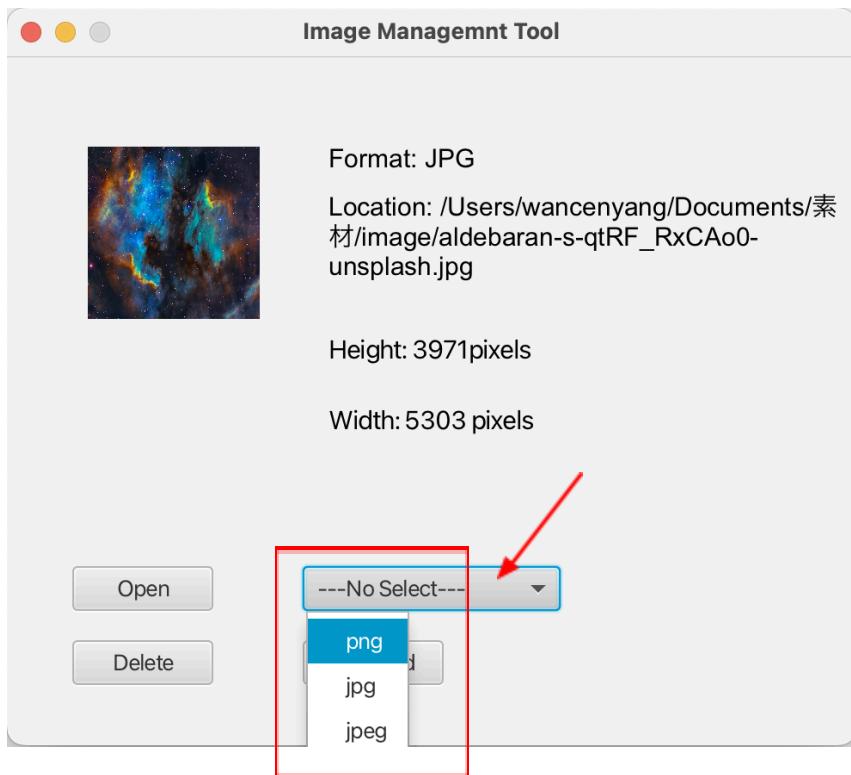
Once clicked ‘open’, the file chooser will be opened, and the user can select the image he wants to open based on format. (Users can select formats, there is a file filer in the system. )



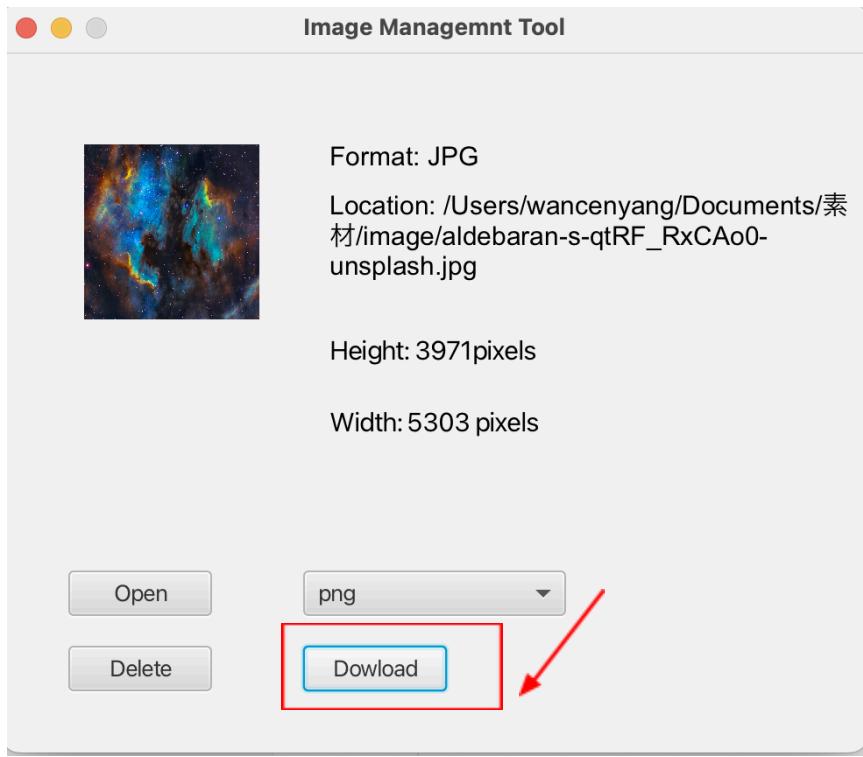
For guidance, we take a JPG image as an example. Once the user selects an image, it will be opened in the application in thumbnail(s) (100x100). The user also can find some basic information about the image.



Then, the user can use the choice box to select the format he wants to convert the current image to.

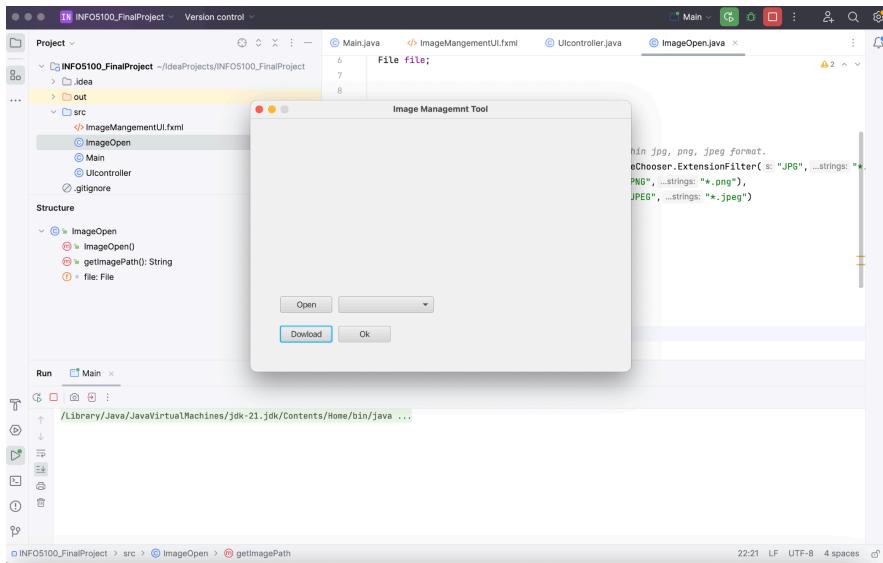


Finally, the user can click download to save the image with the new format.

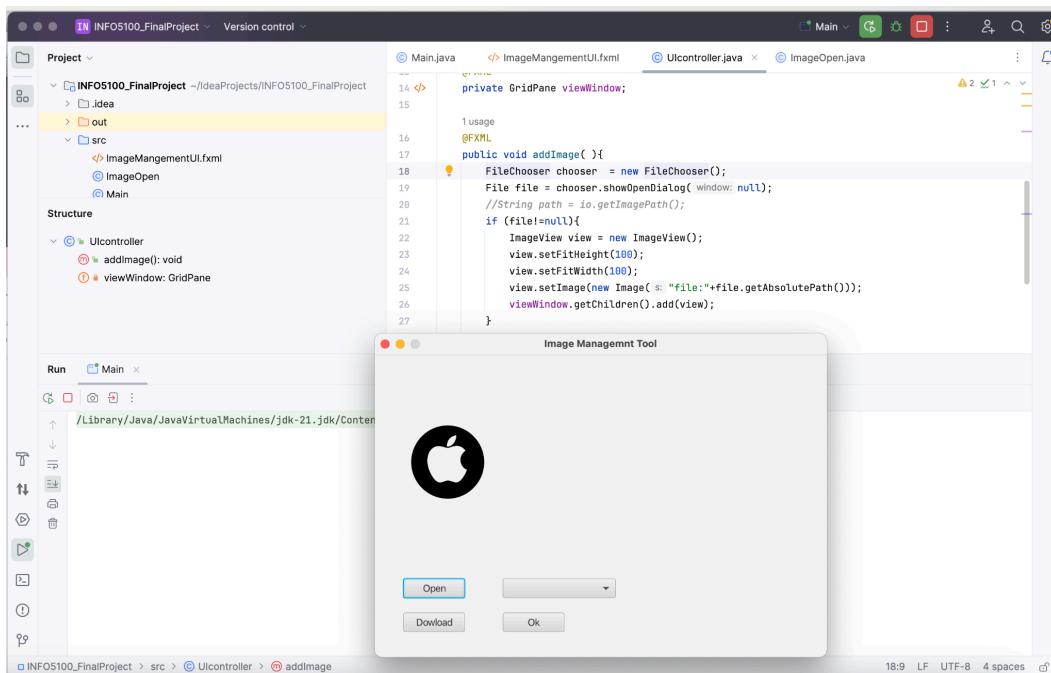


## Test Shoots

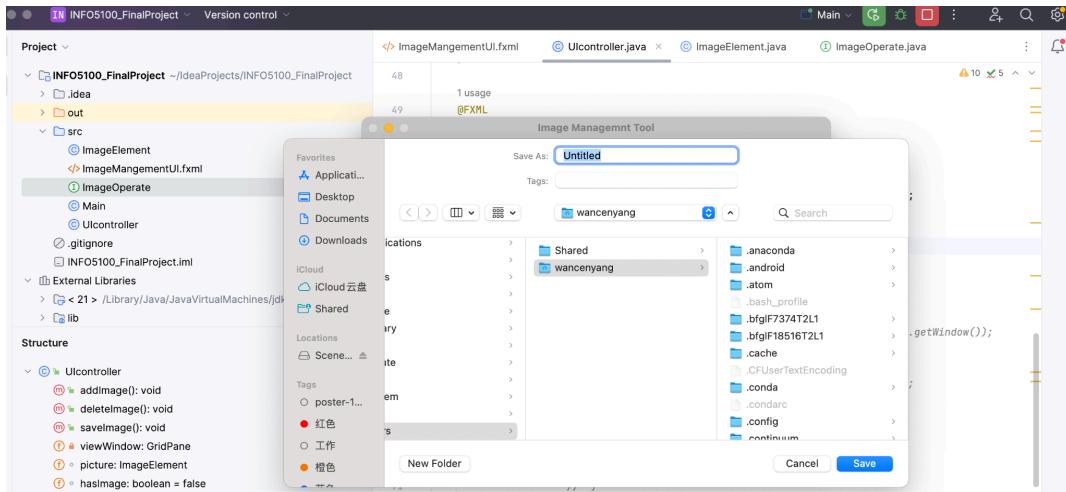
Here are some testing screenshots during the developing process.



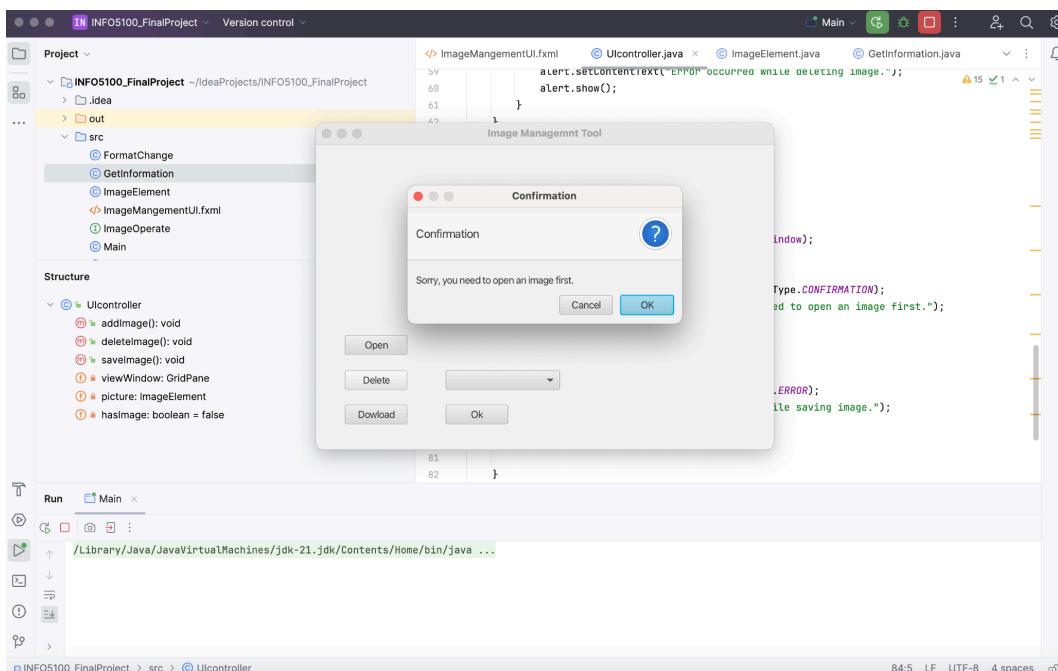
*Testing whether the initial GUI of the application is working well or not.*



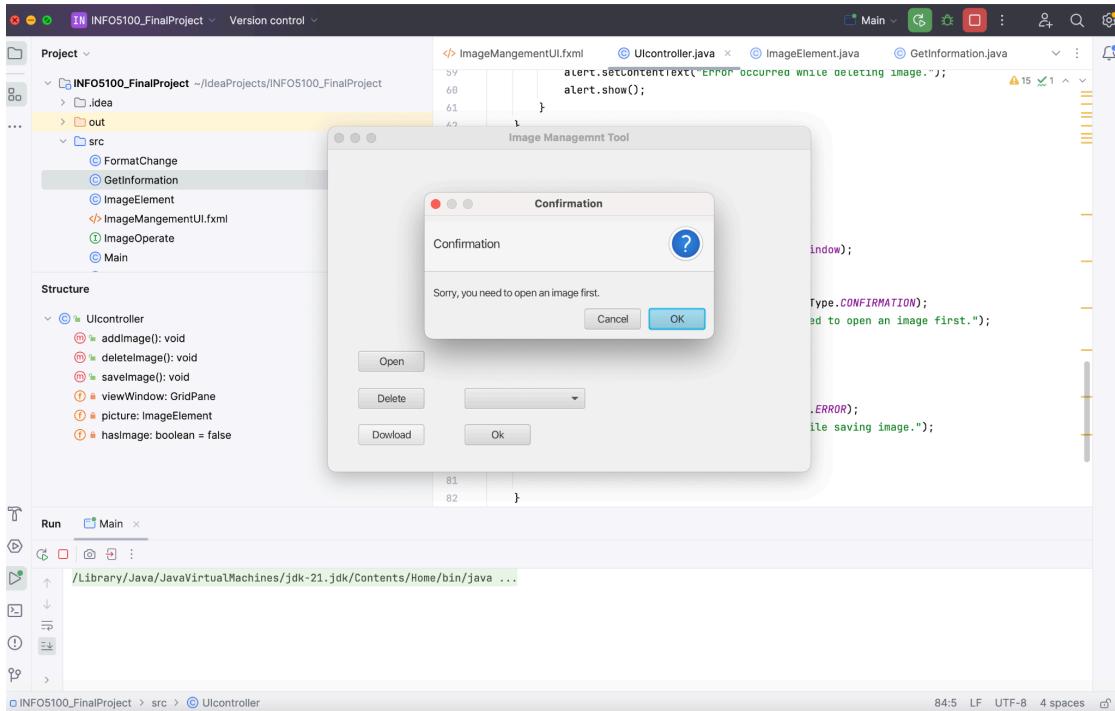
*Testing whether the image can be presented in the application well or not.*



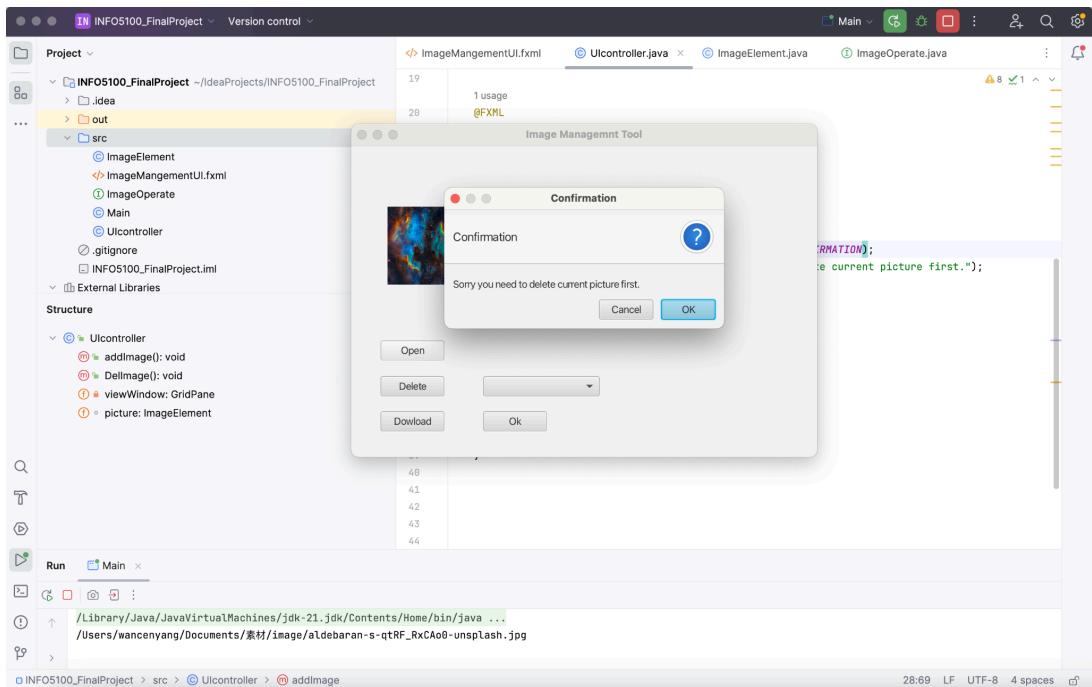
*Testing the download function of the tool.*



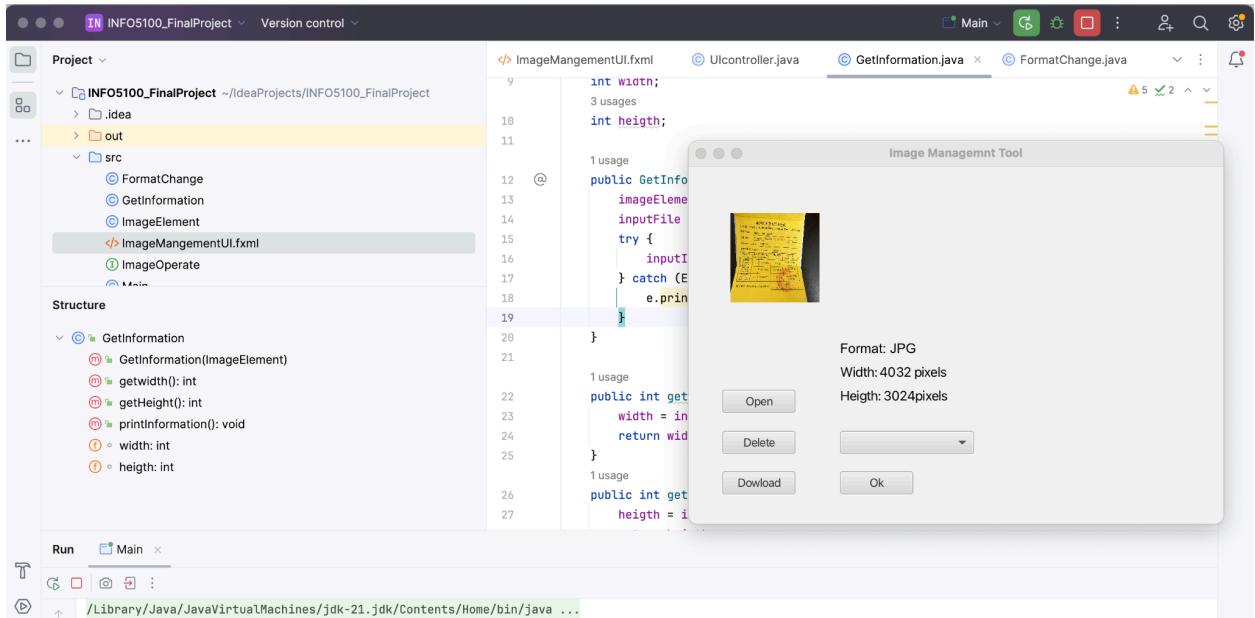
*Testing the Error handling (When the user tries to delete an image before he opens an image in the application. )*



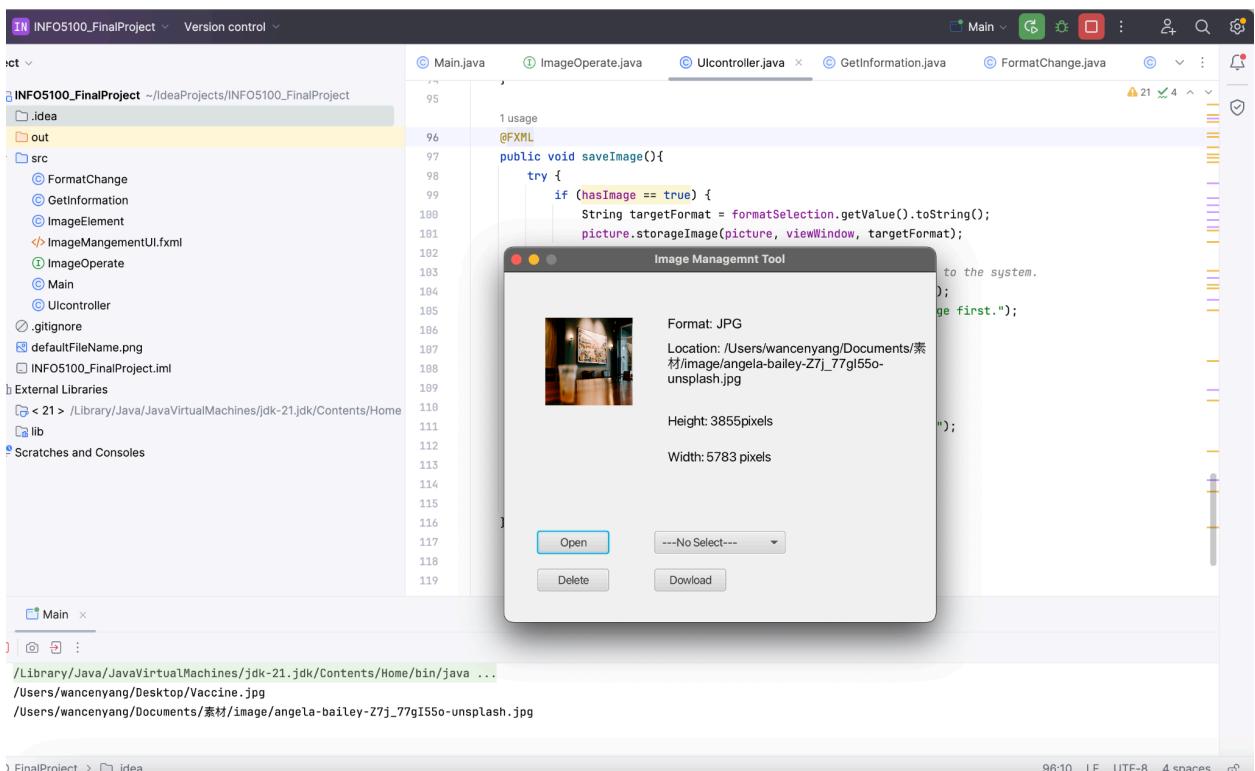
*Testing the Error handling (When the user tries to download an image before he opens an image in the application.)*



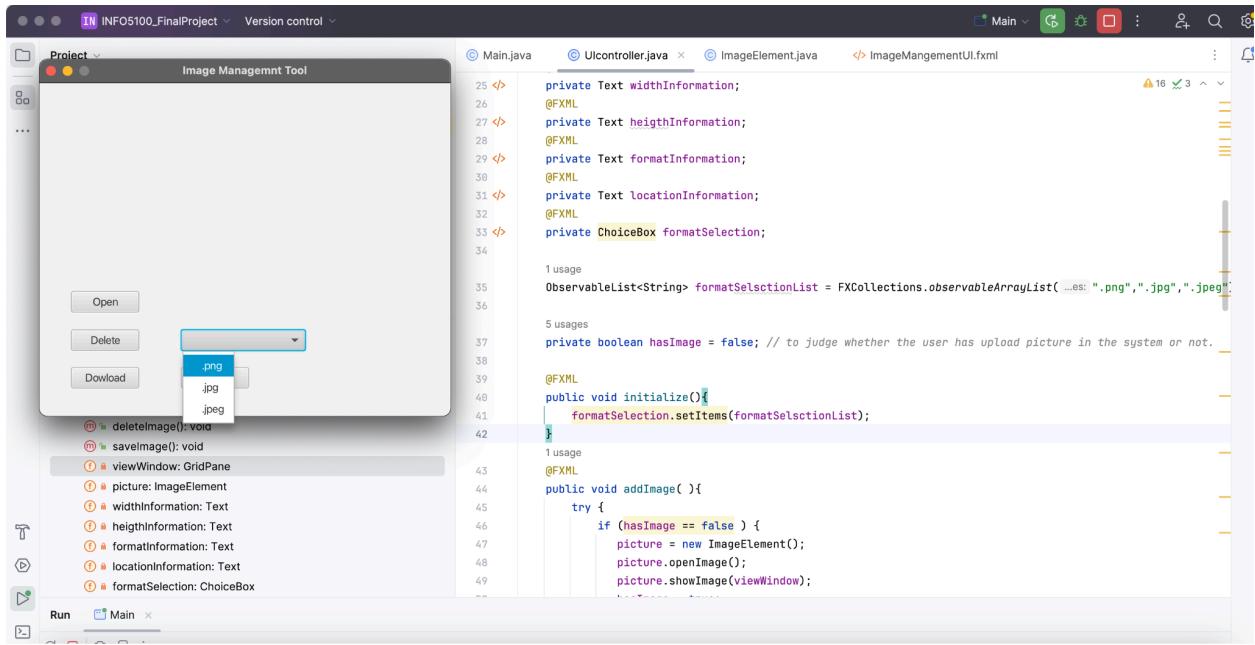
*Testing the Error handling (When the user tries to open another image after an image has been already opened in the application. )*



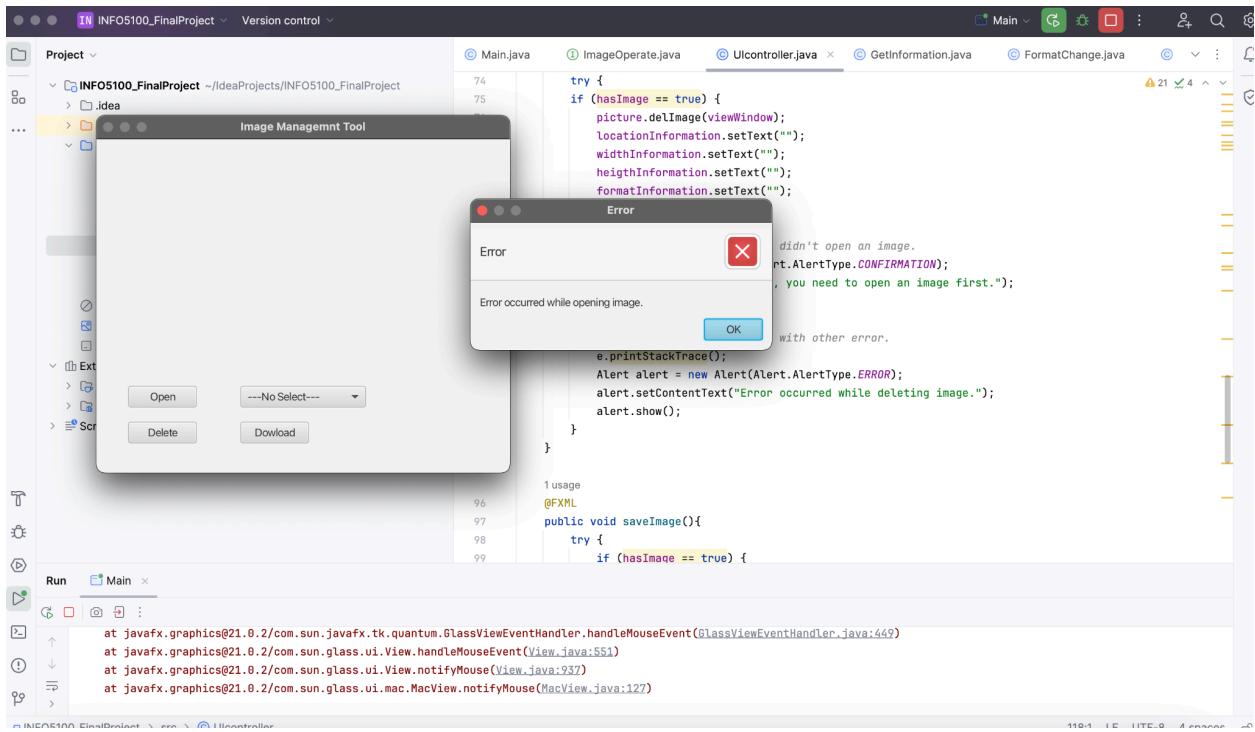
*Testing whether the basic information of the image could be successfully presented in the application.*



*Adjusting the position of the test which shows image information, and adding the information of the original format of the image and image location.*



*Testing whether the choice box works well or not.*



Testing the Error handling (When some error happens during the user tries to open an image. )