

Image Management Tool

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Features

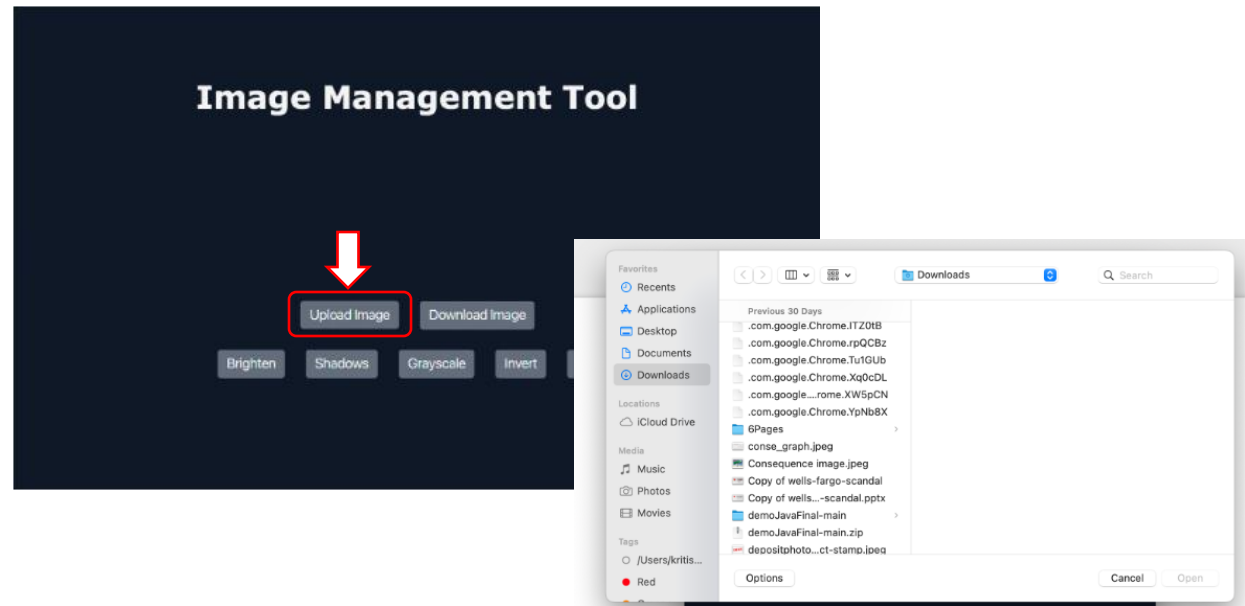
- User can upload an image file from desktop/laptop
- When uploaded, the GUI displays the image with image information
- Image height, width, location and last modified are the properties displayed.
- User also has the option to download the image
- When downloading the image, user can change the format of image into (JPG,PNG,GIF, BMP)
- User can also apply different kinds of filters to the image (bright, dark, gray)
- User can also revert back the applied filters to original image

Program Demonstration 1

Upload Image



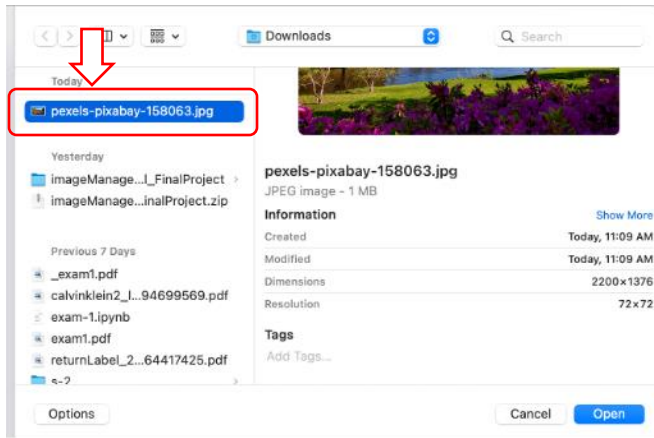
1. GUI loaded after running the source code.



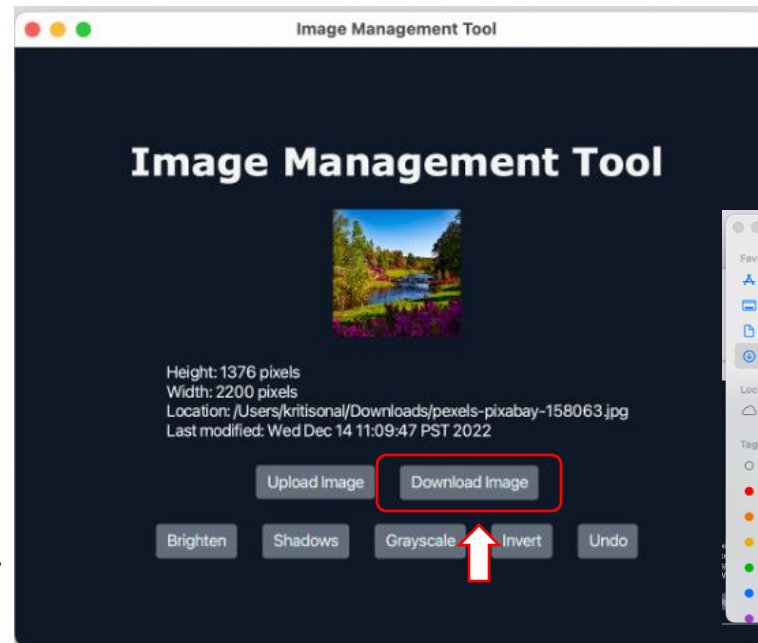
2. Once the Upload Image button is clicked the file chooser pops open to select an image to upload.

Program Demonstration 2

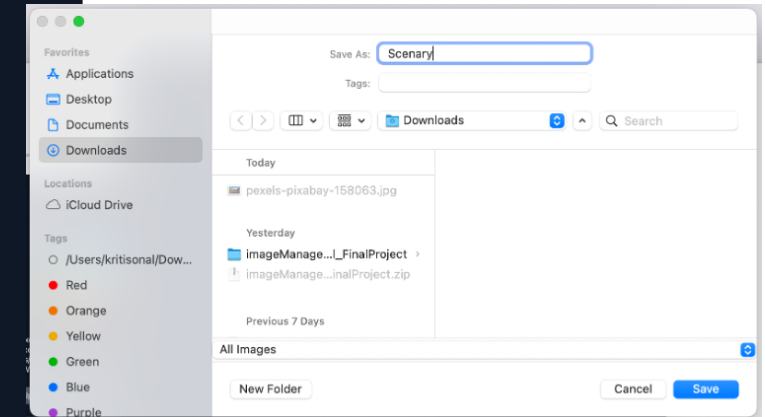
Download Image



3. Selecting the image from the file chooser.



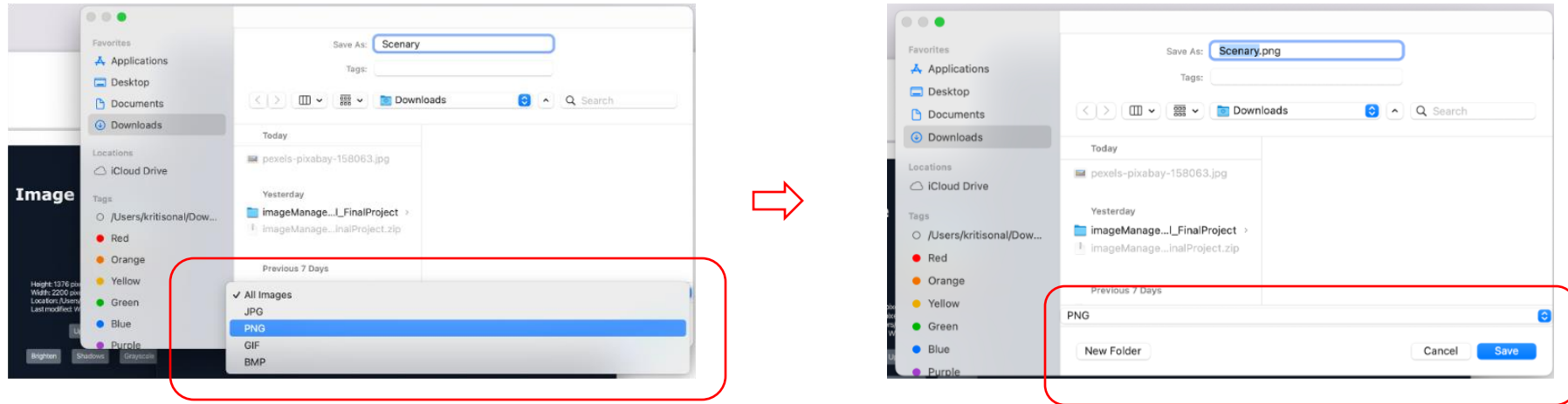
4. The program displays thumbnails and property information of images.



5. When the "Download Image" button is clicked, a window will appear, allowing the user to download and save the file.

Program Demonstration 3

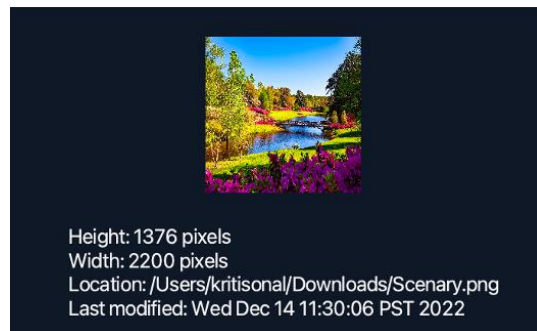
Convert Formats



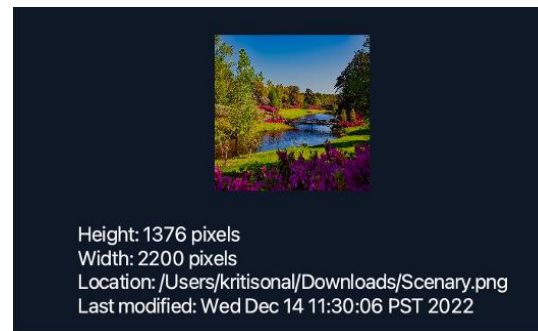
6. Users have the option to download the image in its existing format, or to convert it to either JPG, PNG, GIF, or BMP.

7. In the screenshot above, the image has been converted to the PNG format.

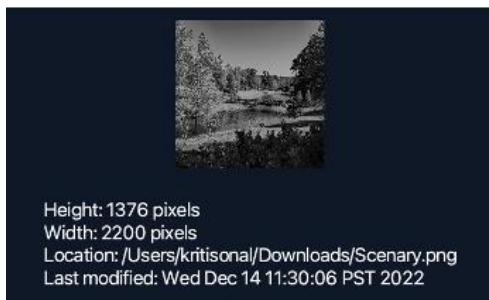
Filter Options



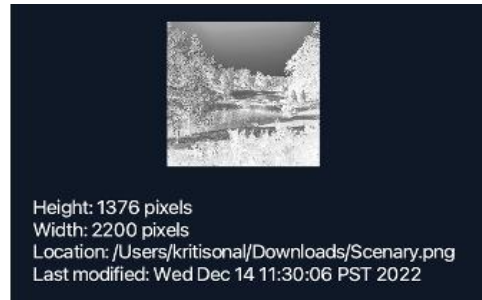
“Brighten” filter



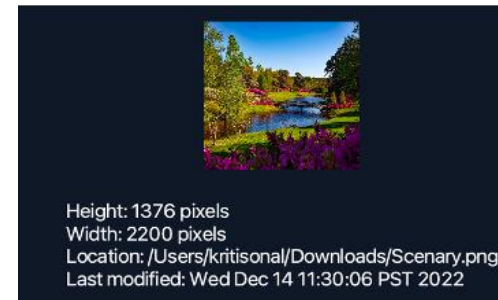
“Shadows” filter



“Grayscale” filter



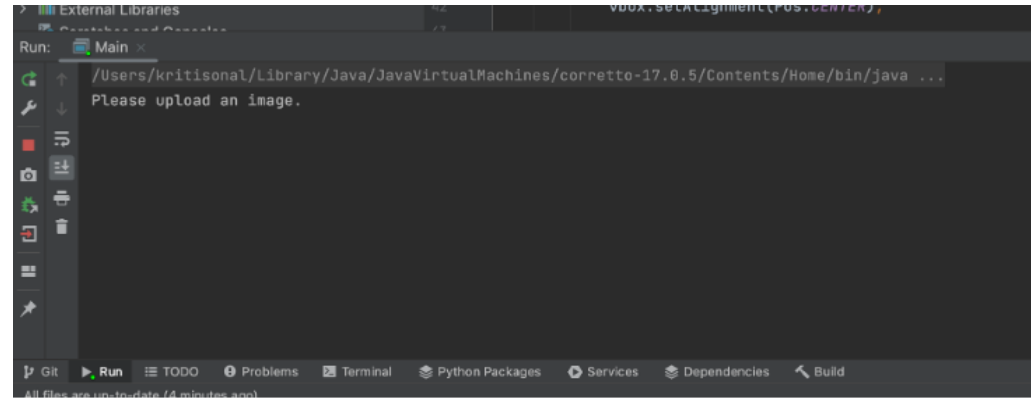
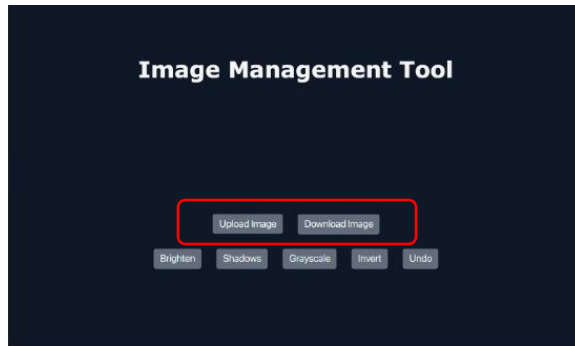
“Invert” filter



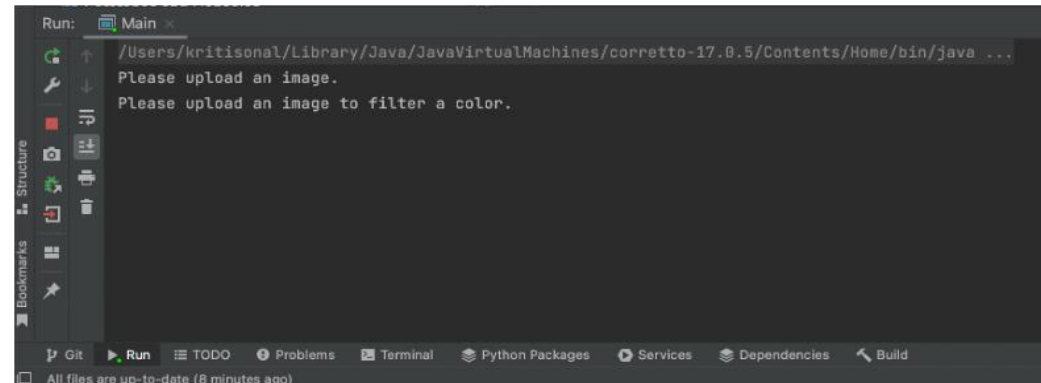
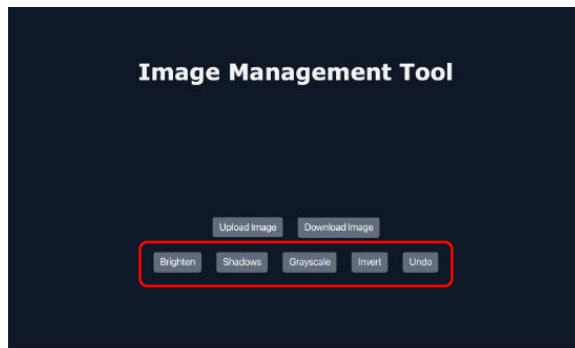
“Undo”

Program Demonstration 5

Error Handlings



1. Error handling is included in the code to address the situation where no image is uploaded



2. Error handling is included in the code to address the situation where no image is uploaded but the user clicks the filter buttons.

Thank you for your time!