Final Project: Image Management Tool

1. **Group Members and Work Division**

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| **Member** | **NUID** | **Division** |
| Zhengrui Liu | 001080986 | Front End Design and Implementation, Opening and Exporting Pictures, Displaying Picture Information |
| Yahui Liu | 001053167 | Implementation of image format conversion, Adding Filters for Images |

MainImageView: Show full picture here

1. **Function Introduction**

**A screenshot of a cell phone

Description automatically generatedA screenshot of a cell phone

Description automatically generatedA screenshot of a cell phone

Description automatically generated**

Show thumbnails here

Show picture’s information here

Choose a filter here

Open and Export Images here

Points:

When click the thumbnail, the main Imageview will show the full picture and the text area will show the information.

1. **Program Information**

**1). Java Class Diagram:**

Controller:

**A screenshot of a cell phone

Description automatically generated**

Main

**A screenshot of a cell phone

Description automatically generated**

**2). Design Patten:** MVC

**3).** **External Interfaces:**

junit-4.13-rc-2.jar: Support GPS locating.

metadata-extractor-2.12.0.jar: Support getting full set of information from a image

xmpcore-6.1.10.jar: Support GPS locating.

Filter.jar: Support adding filters to images.

1. **Test Result**

**1). Open and Display**

**A screenshot of a cell phone

Description automatically generated**

Open pictures

A screenshot of a cell phone

Description automatically generated

Display

**2). Show Information**

**A screenshot of a social media post

Description automatically generatedA screenshot of a cell phone

Description automatically generated**

Show name, camera, date and location on screen

**3). Export and Format Conversion**

**A screenshot of a social media post

Description automatically generated**

Export a picture and select a target format

**4). Add Filter**

A screenshot of a cell phone

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5 kinds of filters