my image Viewer

Final Project Proposal (Revised)

CSC 206 Python Programming

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1 General description

1.1 Summary

My Image Viewer is an application that loads all Pictures automatically from a given folder and shows them in a nice, selectable way on your screen. It creates Thumbnails, and you can switch between them by using the Arrow keys. You can view them in Full screen by pressing the Enter key. Once you are in the Full screen mode, you can still use the Arrow keys, to select the next or preview Image in row. Go back to the Thumbnails by pressing the Enter Key again. The last selected Image will be centered in the Thumbnail view. All Images are resized and centered, to fit the Application Window. The current supported File type is .png, but this can be easily changed in the source code.

1.2 Use cases

The below use cases showcase a subset of the features mentioned above:

- **Person A** is bored and wants to open all Images in a specific Folder. He use my Image Viewer to Present those Pictures in an application, where he can see a little Thumbnail, to figure immediately out, if the image is the right one he wants to see. If he finds the image he wants to see, he can switch to a Full screen mode to see his stunning Image in a mode with more real estate.

1.3 Specifications

Input png Image Files. The File size doesn't matter.

Output Still image on the screen

Platform Python

Libraries Pyglet, OpenGL

2 User interface description

The user interface consists of a single main window that is seen at all times. This window is split into two parts. The thumbnail area is shown on the bottom of the application window. The Full screen Images are shown centered.

2.1 States

Preview State This is the default state where the user see all the Images loaded as a thumbnail on the bottom of the Application window.

Full Screen Mode The user can toggle between the Preview and Full screen mode by pressing the Enter Key.

2.2 File system

A quick note in the file system: All Images are loaded from the `bin/data` folder within the application directory.