CS 3420 – Assignment #5
Image Viewer

Introduction

You are to write a simple image viewing program. The program will have the ability to select a group of image files, create thumbnails and when a thumbnail is selected, the full image is displayed.

Some of the concepts and controls you'll be working with are panels, splitters, callbacks (delegates), dynamic control creating, events and the like. The program is simple, but it introduces a lot of useful user interface programming concepts.

Assignment

The following are the specific technical requirements for this assignment.

- Ability to bring up a File Open dialog to select multiple image files (bmp and jpg). Do not erase previously opened images unless the “new” menu selection is made.
- Create 50 x 50 pixel thumbnails of the original images.
- When a thumbnail is clicked, the full image is displayed on the right panel.
- The selected thumbnail must have a distinctive border.
- The thumbnail viewer is a flow layout container. Also, there is a splitter bar between the thumbnail viewer and the full image viewing pane. You are not required to implement scrollbars, but don't let that stop you if you want to.
- The selected image size in pixels is shown in the status bar.
- A checkbox option for how to display the full image (stretched or normal).
- “Previous” and “Next” buttons that allow the user to move through the thumbnails without having to actually select them.
- A “Help” dialog that shows some info on how to use the program.
- An “About” dialog that shows your name and all that baloney that people put in About boxes.
- An “New” menu choice that clears out any existing thumbnails.
- An “Exit” menu choice that closes the program.

The next page of this document shows a screenshot of my version of the program.

NOTES:
- **Due: Saturday, February 24th**
- Include the heading required by your section at the top of the program
- Follow the style guidelines
- Submit the entire solution directory, but not any exe or obj files, i.e. Delete the /bin and /obj directories.
- Submit through eagle.