

### **September 15, 2009**

- Added basic GUI
- Added "About" box with basic information

### **September 17, 2009**

- Added functionality to buttons
- Broke scaling functionality

### **September 22, 2009**

- Added scrollbars (not fully functional yet)

### **September 23, 2009**

- Revised scrolling
- Added a basic zoom functionality (20/50/75/100 percent)
- Added basic information about picture (height, width, filename)
- Debugged NULL commands (ex. saving a picture before opening one)

### **September 24, 2009**

- Added rough iteration of rotate
- Added first functional pop-up box that requires user input (degrees to rotate)

### **September 29, 2009**

- Revised rotate function (Does not keep the original image in the background and now shows the entire image after the rotate)
- Bug: Rotate moves the picture from the top left to bottom right of the viewing area

### **September 30, 2009**

- Refactored overall code
- Improved behavior of zooming while rotating or vice versa
- Fixed bug found on September 29, 2009

### **October 1, 2009**

- Added Doxygen comments to the code to generate program documentation via HTML
- Improved zooming by asking user for percent of zoom as opposed to a fixed value
- Added resize functionality

### **October 6, 2009**

- Added first rough draft of the user manual
- Note: Class presented projects

### **October 7, 2009**

- Revised manual (Added getting started and FAQs)
- Added download link on homepage to download working copy of program
- Added rough iteration of undo and redo

### **October 8, 2009**

- Refactored overall code (Added ShoppedGui.cs)

### **October 13, 2009**

(Lecture)

### **October 14, 2009**

- Refactored ShoppedGui.cs. Extracted methods into classes in core
- Fixed newfound bug: Image would stop rotating after rotating so many degrees
- Fixed newfound bug: Image Zoom/Rotate/Resize would behave irrational after use of all 3 ( Rotate, Resize, Rotate )
- Added Doxygen comments
- Removed TempImage entirely from the project
- Replaced TempImage with new logic and a more robust CurrentImage (more properties)

### **October 15, 2009**

- Centered dialog boxes
- Created ImageHistoryItem, a simple class that is now used in the list for ImageHistory
- Added current zoom level to SetAdditionalInfo() in ShoppedGui
- Added a brief description to each action performed in Shopped, used in ImageHistoryItem
- Added a tooltip to Undo/Redo that tells the user what the previous/next operation is
- Added Grayscale filter

### **October 20, 2009**

- Note: Class presented projects