**Inspiram**

**Capstone Proposal**

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*Revision 3*

**Project Success:**

My name is Nathan Nickerson and I am creating a photo editing software called Inspiram. Inspiram is inspired by Photoshop, paint.NET, and GIMP. This software will be built from the passion of how astonishing graphic or photo editing is. Functionality for Inspiram will consist of features seen in other editing software, but Inspiram will work to enhance the performance and deliver a product to the customer. Inspiram is motivated by two main goals although there are numerous features. The first goal is starting from scratch and building a new photo editing API. The second goal is anti-aliasing. Anti-Aliasing will focus on resizing an image to a greater size while not becoming pixelated. This will also work for shrinking the image. An API in Java called Java Advanced Imaging (JAI), will help with image manipulation and provide a better performance.

**Target Users:**

The target users for Inspiram range from novice graphic artists to experienced graphic artists.

**Project Backlog:**

The list of user stories below is organized from novice graphic artists to experienced graphic artists. The stories are not prioritized at all.

1. As a novice graphic artist, I would like to make images bigger or smaller in case I have the wrong sized image to place in my graphic.
2. As a novice photographer, I would like to get rid of red eye in my photos, and restart my project in case I mess up.
3. As a novice graphic artist, I would like to have custom shapes or logos to put onto my graphic, and draw on my graphic.
4. As an intermediate graphic artist, I would like to keep multiple copies of graphics in a clipboard manager instead of only copying one graphic at a time.
5. As an intermediate graphic artist, I would like to see what I’ve done throughout my editing.
6. As an intermediate graphic artist, I would like to add shadows to a 2D picture, and put my other graphics onto it.
7. As an intermediate graphic artist, I would like to work on multiple areas on a picture, and be able to center my text to create a nice poster type graphic.
8. As an intermediate graphic artist, I would like to see where the pixels are, and draw straight lines.
9. As an intermediate graphic artist, I would like to get a closer look to edit small areas.
10. As an experienced graphic artist, I would like to paint with different strokes to get a different effect.
11. As an experienced graphic artist, I would like to make my graphic sharper, and add effects to my graphics.
12. As an experienced graphic artist, I would like to edit PNG, JPEG, JPG, and GIF file types.

**2 Week Plan:**

All of the tasks for this 2 week plan will include the usage of the Eclipse IDE for developing in the language of Java. Inspiram will be built on a windows 7 computer, and tested on Ubuntu as well. If multiple bullet points exist in the list below, they are in the order for which they should be completed.

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| --- | --- | --- |
| Date | Day | Description |
| July 8th, 2013 | Monday | * Applet Setup, Load and display image. * Experiment with JAI |
| July 9th, 2013 | Tuesday | * Experiment with JAI |
| July 10th, 2013 | Wednesday | * Experiment with JAI |
| July 11th, 2013 | Thursday | * Start Red Eye Removal |
| July 12th, 2013 | Friday | * Red Eye Removal |
| July 13th, 2013 | Saturday | * Red Eye Removal |
| July 14th, 2013 | Sunday | * Red Eye Removal |
| July 15th, 2013 | Monday | * Finish Red Eye Removal |
| July 16th, 2013 | Tuesday | * Start Drawing Tool |
| July 17th, 2013 | Wednesday | * Finish Drawing Tool |
| July 18th, 2013 | Thursday | * Start Custom Brushes |
| July 19th, 2013 | Friday | * Custom Brushes |
| July 20th, 2013 | Saturday | * Custom Brushes |
| July 21st, 2013 | Sunday | * Finish Custom Brushes |