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Senior Project 1

Requirements Document

**Project Name:** Design Pad

**Project Definition:**

Design Pad is an Illustrator style two-dimensional design program that does more than just draw simple shapes. It also includes a custom curves tool that can draw custom curved shapes. Basic shapes will have fills and gradients with colors.

**Project Purpose:**

To create a draw program that is simple and easy to use. This draw program should be able to produce complex custom artwork with an exceedingly simple user interface. When the artwork is finish the program will have the capability of exporting the art to a jpeg file format.

**End Users:**

The end users are web and print graphics designers who are tired of the overly complex environments(UIs) found in most of the draw programs yet, still want the main features.

**Scope:**

This section is divided into goals and stretch goals.

*Goal:*

* To create a fully functional drawing tool program with a custom curves tool

*Stretch Goal:*

* Add fill to custom shapes.
* Add gradients to custom shapes.
* Zoom in/ Zoom out
* Copy and Paste

**Functionality:**

*Menu Bar:*

File

* New: Create a new Design Pad file.
* Open: Open a Design Pad file that has been already created.
* Save: Save the currently opened file.
* Export: Export to a known file format such as .jpeg

Edit

* Undo: Undo the last action as well as actions performed before it.
* Redo: Redo something that has been undone
* Copy: Copy a selection to be pasted.
* Cut: Delete a selection
* Paste: Paste a selection that has been copied.

View

* Zoom in: Maximum 150%
* Zoom out: Minimum 50%
* 50%
* 75%
* 100%
* 150%

Help

* About
* Tips

*Buttons:*

* Oval: Draws Ovals
* Circle: Draws Circles
* Rectangle: Draws Rectangles
* Square: Draws Squares
* Triangle: Draws Triangles
* Select: Arrow symbol
* Fill: Fills the shape with a color.
* Gradient: Stretch Goal! Gradient from one color to another.

*Handles:*

* The select boxes need handles so that they can be manipulated

*Select Tool:*

* Resize
* Rotate

*Dialogue before closing of the application:*

* Do you want to save changes before exiting?

**Use Cases**:















