**431 Team F**

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**Summary:**

This is a joint program that gives users the ability to create visual patterns which can be saved and exported as image files. It provides an interactive UI similar to MS Paint. The program will be simple in design and easy to use. It will have symmetry and provide unique features that allow users to create a form of art more than just paint on a page.

The project is being designed in Java so that it can be cross platform and has the potential to become an android app with touchscreen capabilities.

**Software’s Capabilities/Features:**

* Ability to draw lines (including special lines), shapes, etc.
* Ability to change colors
* Tessellation
* Symmetry
* Erase
* Save
* Export images as files
* Possible touchscreen support

**High-Level Architecture:**

* Graphics UI Component
* Graphics Engine Module
* Possible Android Component

**Languages, Libraries, Tools, and Their Purposes:**

* Java Programming Language – to create the drawing project
* JFrame Library - graphics
* Eclipse IDE - development
* Tortoise SVN – version control and sharing
* Possible Android API