

4. INTERFACE DESIGN.

Initial interface designs have been completed in order to determine the look, feel, layout and minor interaction details required for users to complete the creation of their typeface.

4.1 SCREEN DIMENSION CONSTRAINTS.

Prior to the creation of detailed wire-frames the screen size constraints have been determined. Early versions of this application will be targeted towards MAC OSX, therefore to ensure all users from the range of Apples OSX devices the screen size of the smallest device, 11in Macbook Air, have been applied as the base constraint. All subsequent designs will therefore be required to fit these boundaries. The constraint values have been provided by Sketch.app (Bohemian Coding, 2016) which will generate a predefined “Artboard”.

Screen Dimension Constraints.

Screen dimension of current smallest sized Mac OS X machine.



Figure 8: Screen Dimension Constraints

4.2 IMAGE UPLOAD.

The primary method of subject image upload will be through dropping an image onto the application window, simplifying the process. However, generally the interaction of drag and drop is favorable when items are dropped from the desktop or at least the viewable screen. Therefore, alternatives should be included. As Figure . there use of a Finder dialog has been considered. In addition future versions of this application could offer cloud support allowing from the taking of pictures from a device, sent to cloud and pulled into the desktop application.

Image Upload Default

Initial display providing image upload directions

Image Upload Default

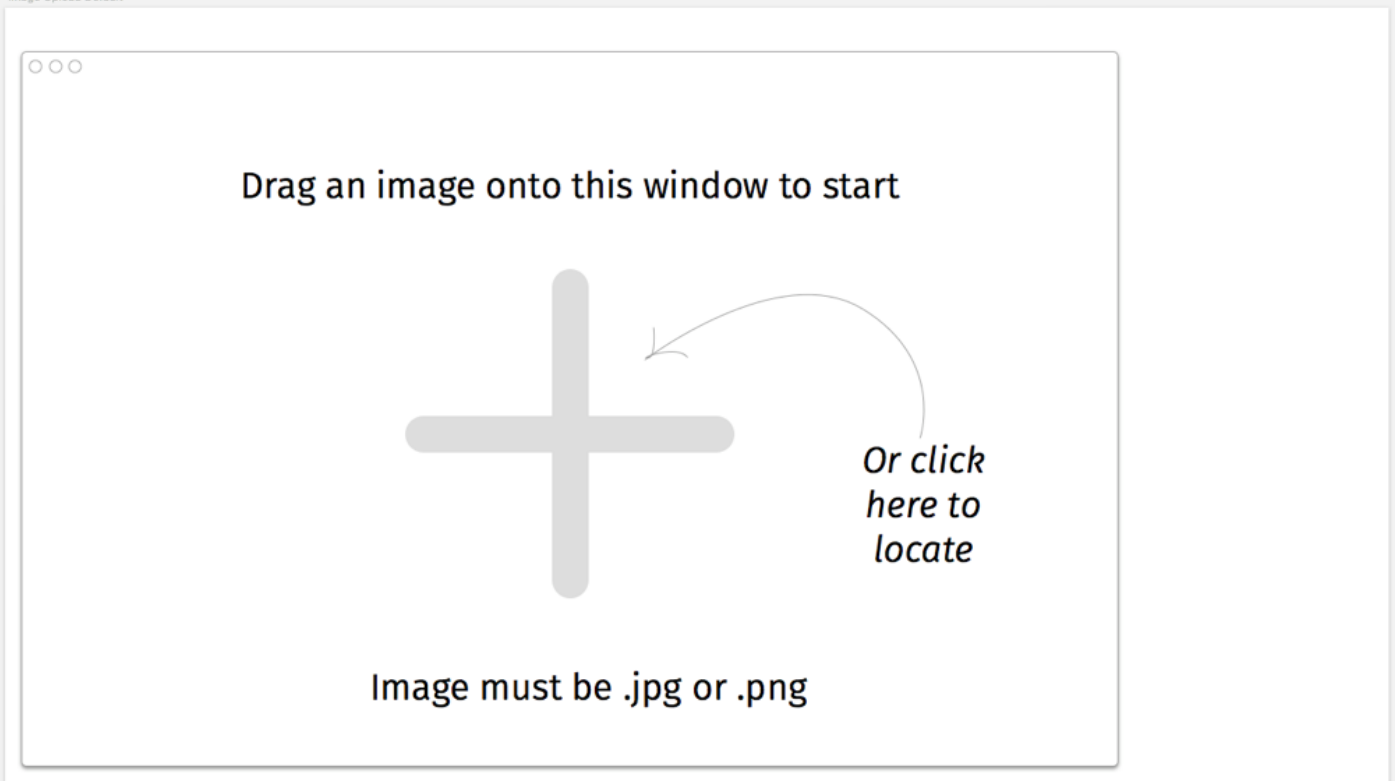


Figure 9: UI Image Upload Default

Image Upload Finder Dialog

Allowing the user to locate the image they wish to upload

Image Upload Open Dialog

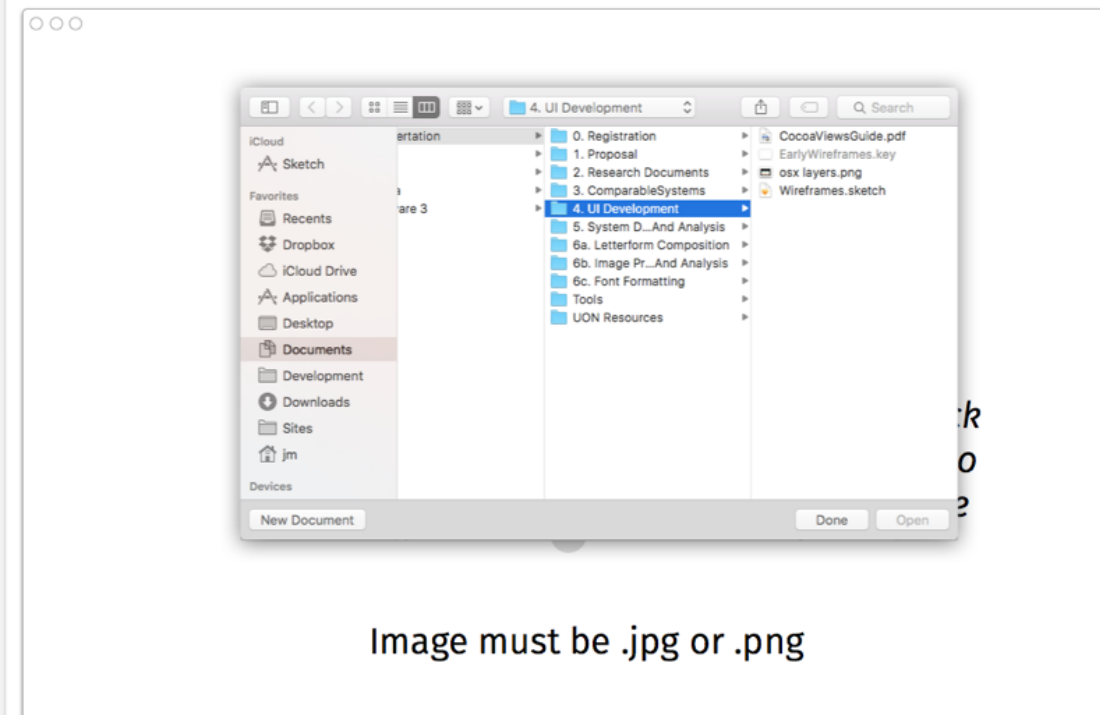


Figure 10: UI Finder Dialog

Implementation of the drag and drop interface would require the display of feed back to the user in the event an incorrect format is provided. In the case of a Finder dialog, the available list of formats would be reduced down to only the applicable formats.

Error for incorrect format.

When using the drag and drop option to add an image to the application. Should the file format be incorrect the drop will be denied.

Image Upload Error

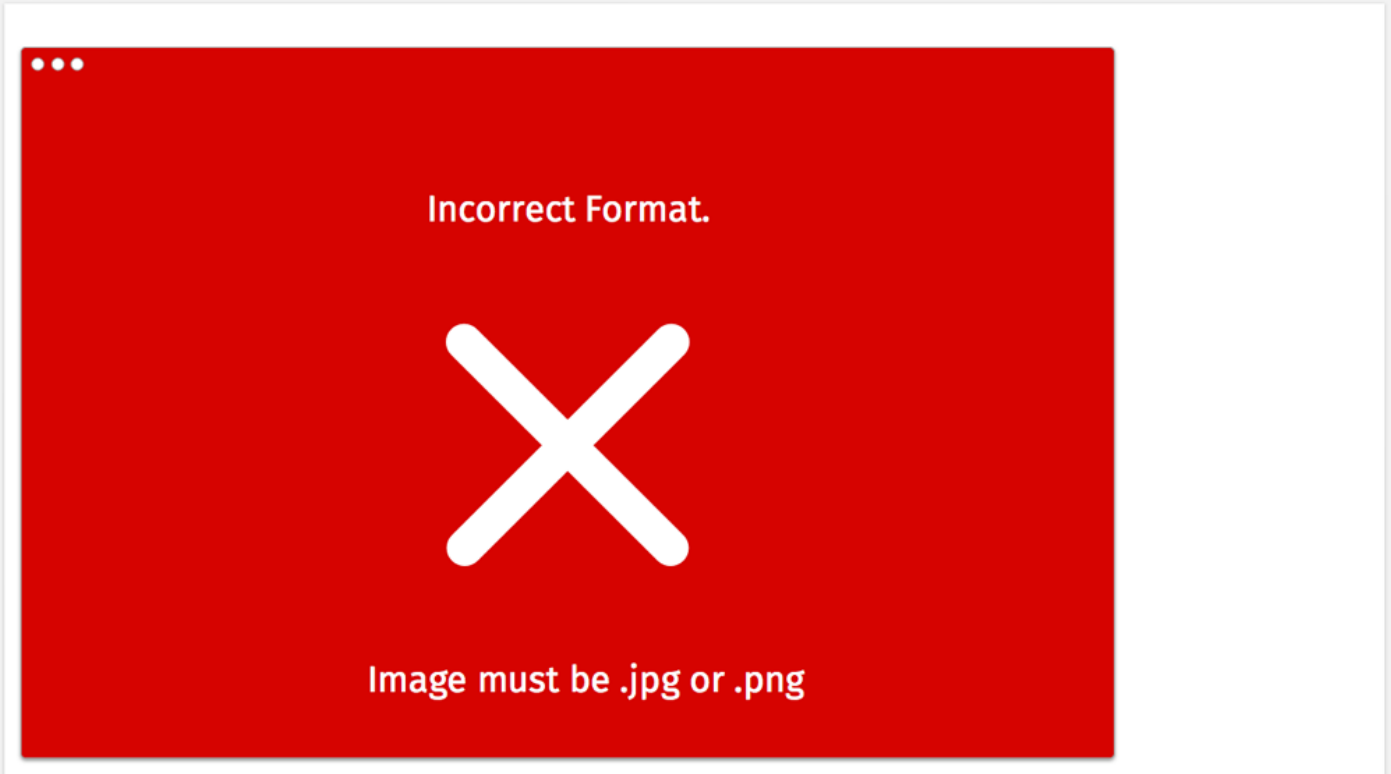


Figure 11: UI Error Feedback

Success for correct format

Feedback is provided when a file of the correct format is hovered over the application. The user can now drop the image

Image Upload Success



Figure 12: UI Success feedback

4.3 IMAGE PROCESSING TOOLS.

Due to the wide variety of image quality that maybe provided to the application, user interaction may be required during the Image Processing phases. Although the intension is to limit the required user interaction by programmatically fixing the image quality, as of version one of this application some interaction maybe required. Where values are required by the system, Slider controls would be used to alter the values pasted to the various image processing implementations.

Image Processing

The image is uploaded to the application
The user is provided with Image processing options.

*This part of the process
may require more
direction for the user.
Additional controls
required such as crop.*

Image Processing With IP Options (Landscape Image)



Figure 13: UI Image processing tools

4.4 OUTPUT PRESENTATION.

Once processing of an image is complete, displaying final forms to the user will allow for comparison and in future versions the ability for the user to grade output opening the possibility of a systems that learns.

Process Complete

Allowing the user to compare processed image with font to be output.

Action to allow user to proceed is required.

Image Processing Portrait Image



Figure 14: UI Letterform Comparison

4.5 SAVING OUTPUT.

Two possibilities for the saving and installation of font files has been considered.

- 1) Simply allow the user to save the file using a Finder Dialog. Figure 15
- 2) A multi stepped process guiding the user through: naming a font, specifying fonts formats to generate, selection of licenses for sharing of the output typeface, and whether to install and/or download the files. Figure 16

For version one of this application the intention is to simply provide an SVG output, therefore option one would be acceptable.

Save Output

Save dialog provided on action.

Image Processing Portrait Image Copy

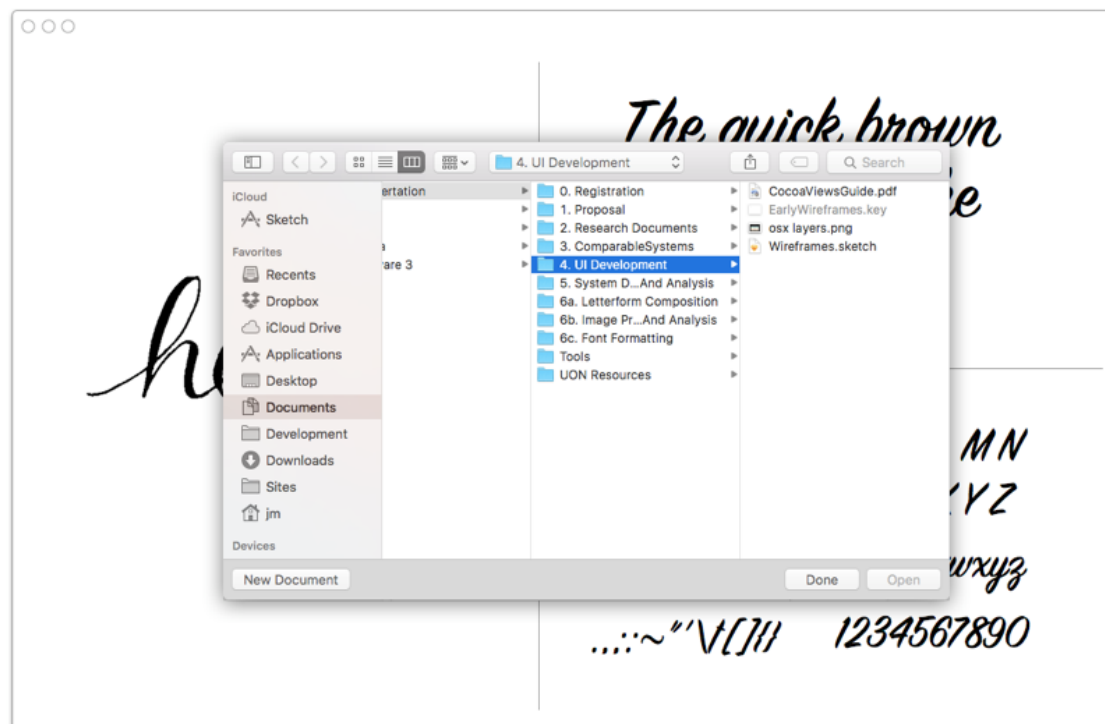


Figure 15: UI Saving output

Download and Install font

Users are taken through the process of naming, choosing a license, output font type, and whether to simply download or install.

No longer needed as simply providing SVG output for version one.

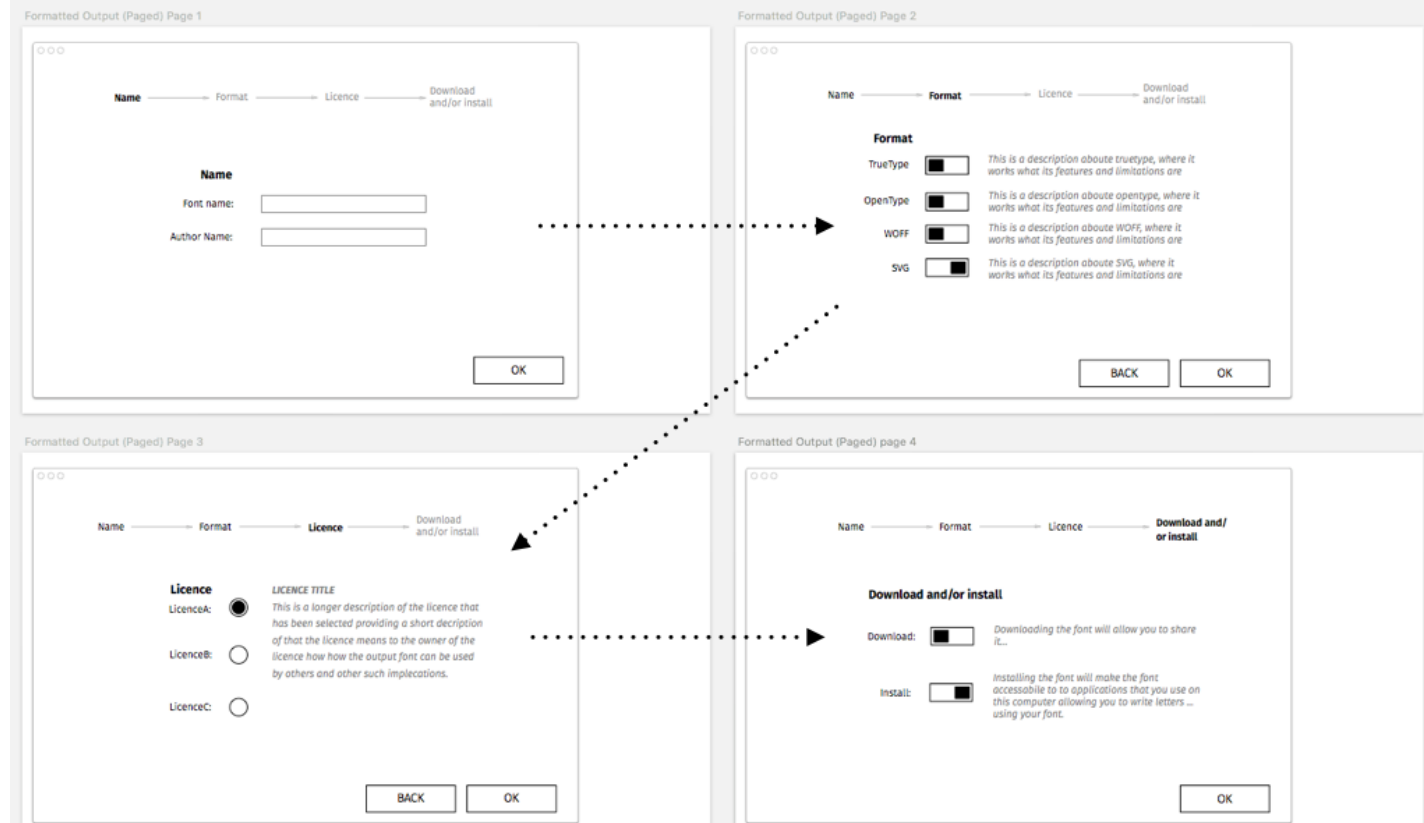


Figure 16: UI Multi stepped guided output

4.6 UI STORYBOARD.

Figure . details the a high level view of the full process required of for user interaction

UI Storyboard

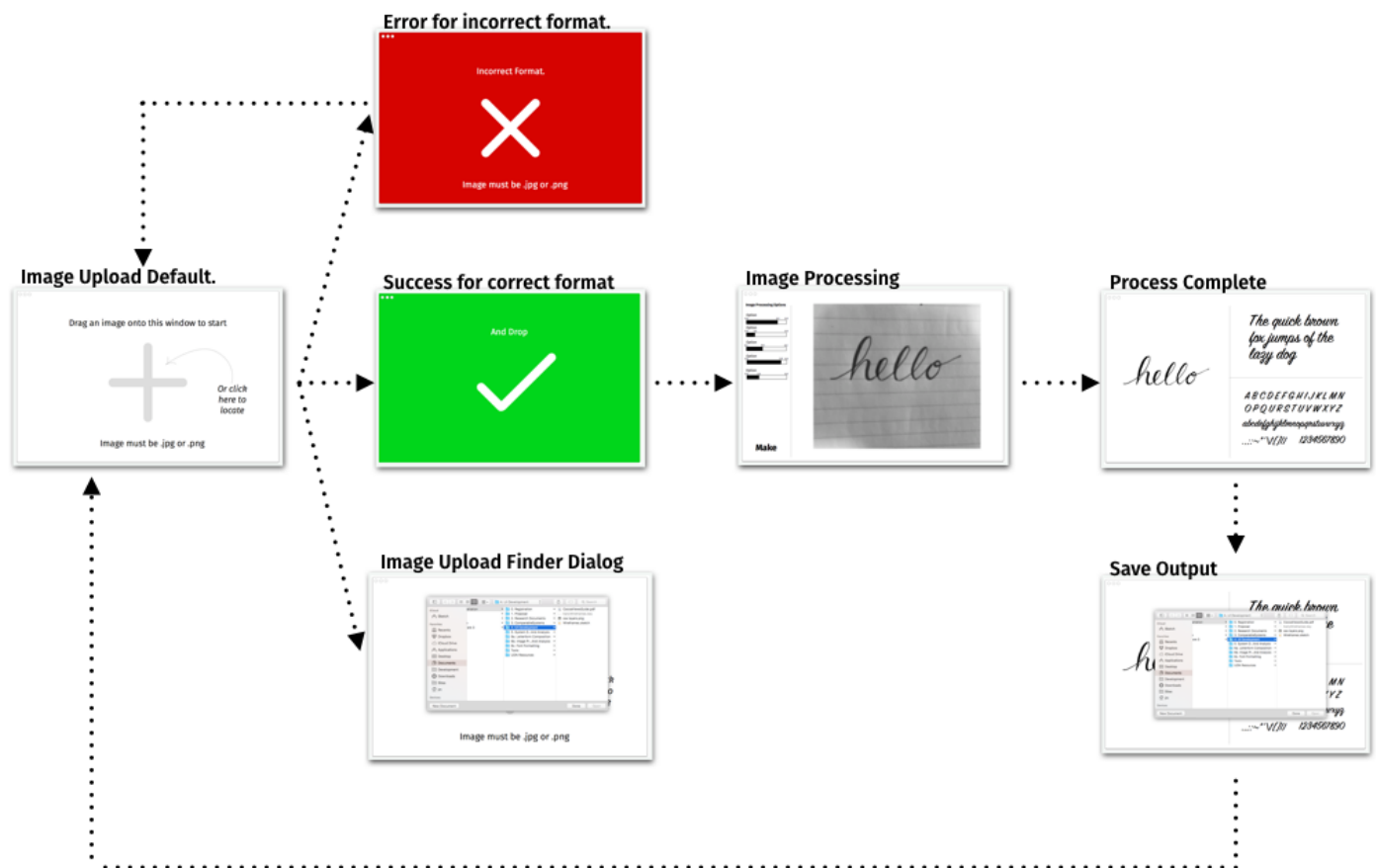


Figure 17: UI Storyboard

4.ui.001.png (Figure 8: Screen Dimension Constraints) [1024x768]