**Purified Images Functional Specification**

**Overview**

The Purified Images app allows the user to upload images, display them on a page, and convert color images to black-and-white.

**Features**

1. User sign-up

1.1. People can create an account for the app. Required information:

1.1.1. Username

1.1.2 Password

2. User login

2.1. Users with an existing account can login to the application.

3. View images

3.1 After login users are presented with a window showing existing account images.

4. Upload images

4.1 Users can upload additional images to their account.

5. Purify images

5.1 Users can convert uploaded images to black and white.

5.2 Purified images can be saved to file.

6. Access About information

6.1 Users can view information about the app.

6.2. Users can purify a stock image to see how it works.

**Application Layout**

1. Landing screen / Login screen

1.1.  Provides form for entering user email and password

1.2.  ‘Login’ button sends the information to the database and checks for existing user

1.3.  ‘Register’ button redirects to register screen

2. Registration screen

2.1. User provides user name and password for account creation

3. Main function window

3.1. User can upload an image to their account

3.2. User can delete an image from their account

3.3 User can purify their image (convert color to black-and-white)

3.4 User can save the purified image to a file

4. About window

4.1. The user can read about the app

4.2 The user can purify a sample stock image