Requirement Specifications
1st Edition - Released

Team 10 - Photo Web Site

Created by: Harry Finocchiaro, Arian Hojat, John Perkins, Nick Intrieri, Justin Aurand
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Introduction

- **Document Purpose**

  This document serves to outline the application being created, *Gallery Pro* and its requirements.

- **Product Scope**

  *Gallery Pro* is a tool to be used by content providers (writers, artists, photographers, etc.) to easily automate the task of creating, maintaining, and restructuring a robust online image gallery.

- **Document Overview**

  Our document starts with a general description of the product. We describe *Gallery Pro*'s purpose and perspective, its functionality and user-base, along with any limitations or assumptions about the system or environment. We will then describe the functional and non-functional requirements of the system. And a list of references will be added to the end of the document, along with a glossary describing uncommon words.
General Description

- **Product Perspective**

  Web content management systems (CMS) are a relatively new technology that arose out of the needs of content providers (writers, artists, photographers, etc.) to easily establish a presence on the web without being bothered by the task of learning various web/database languages or having to hire a designer in order to publish their work. **Gallery Pro** is specifically targeted at professional photographers or anyone who wishes to publish and manage galleries of photos online. By offering a tool that allows a user to quickly upload, manage, and publish images and thumbnails, the time spent on creating a website drops substantially. **Gallery Pro** allows the user to categorize photos and enter keywords about each image. Using this information, the software makes it easier to search and manage one’s collection. The software also includes features that allow for on-the-fly watermarking as well as other useful filters. With this feature, a photographer could easily insert a copyright notice and/or URL to his site on a whole collection of photos with the click of a button. This feature keeps the original photos intact, but dynamically alters them to polish and protect them for the web. Our solution saves time and money, and it allows photographers to focus on the images and leave the rest to the software.

- **Product Functions**

  **Gallery Pro** includes an interface that allows the user to store photos, choose their gallery website layout, resize photos, restructure their site on the fly, and add watermarks to images when desired. This interface aids the user in creating an online gallery as the final result.

  When an image is stored, the user provides a category (or categories) and description for each image. This information is used by the tool to search, browse, and structure images and galleries as desired by the user. Images can be resized according to the user’s wishes. Thumbnails are created on the front page of the final gallery indicating what types of images are displayed when the user clicks the link. Subtitles and headings on the front page are automatically created if desired. **Gallery Pro** provides all of these options on the GUI form.

  **Gallery Pro** allows the user to easily indicate which images they would like a watermark to appear on and what watermark they would like to have placed over the image. **Gallery Pro** facilitates the creation of watermarks over the assigned image.
The website layout is chosen from a list of templates by the user and can be changed at any time. The website consists of a front page with thumbnails representing the selected categories. Each thumbnail has a short paragraph defining the category. Clicking the thumbnail takes the user to a page containing all images belonging to the corresponding category or description. From this page, thumbnails can be clicked to display a full size image with a watermark (if chosen).

- **User Characteristics**

  The primary users of this application are photographers and those knowledgeable in the field of photography, computer photo files, and the modification of these files. The user supplies a number of categorized photos to be modified and structured on a web page according to the user’s wishes. The result of these modifications is an organized photo web gallery.

- **General Constraints**

  The primary user of this application is limited to the templates that are defined in this application. This is a limiting factor because a knowledgeable web site designer can arrange a photo gallery in nearly any fashion imaginable. The user can not deviate from the templates of web site structure provided.

- **Assumptions and Dependencies**

  This application assumes that the user has connectivity to the internet. This application also assumes that the user can provide the correct (supplied) URL to locate this application. The user must provide his or her own web space, and a general knowledge of website layout.

  **Gallery Pro** assumes that the user has some knowledge of photography and corresponding picture files. Also, this application assumes knowledge of photo sizing and watermarking.

  **Gallery Pro** assumes the user can categorize his/her photos accurately and beneficially.
Functional Requirements

**Gallery Pro** will be referred to as “the application” from here on.

FR1.0.0.0.0  The application has an “Administrative Header”.

FR1.1.0.0.0  The “Administrative Header” contains a link to the [Administrative Search](#).

FR1.2.0.0.0  The “Administrative Header” contains a link to the Administrative Search.

FR1.3.0.0.0  The “Administrative Header” contains a link to the Project Selection Page.

FR1.4.0.0.0  The “Administrative Header” contains a link to log out.

FR2.0.0.0.0  The application requires a user to log in through a web browser. (See Figure 1)

FR2.1.0.0.0  The Login Page contains a `Textbox(5, 30)` for the username.

FR2.2.0.0.0  The Login Page contains a `Textbox(5,15)` for the password.

FR2.3.0.0.0  Acceptable characters for the username and password are all numbers, letters, and underscores.

FR2.3.1.0.0  The password display character is an asterix (*)

FR2.4.0.0.0  The Login Page contains a login button.

FR2.5.0.0.0  If the user enters and invalid username/password then appropriate error text will be displayed.

FR2.6.0.0.0  A successful login by the user will take the user to the Project Selection Page.

FR3.0.0.0.0  The application requires a user to select a project from the Project Selection Page after successfully logging in. (See Figure 2)

FR3.1.0.0.0  The Project Selection Page contains a link to log the user out.
FR3.1.1.0.0.0 The log out link takes the user to the Login Page.

FR3.2.0.0.0.0 The Project Selection Page contains a list of existing projects.

FR3.3.0.0.0.0 The Project Selection Page contains no more than n projects.

FR3.3.1.0.0.0 Only one project may be selected at any given time.

FR3.4.0.0.0.0 The projects on the Project Selection Page are links to open the project.

FR3.4.1.0.0.0 The existing projects link to the View Galleries Page (See Figure 4) for a particular project.

FR3.5.0.0.0.0 The Project Selection Page contains a link to create a new project.

FR3.5.1.0.0.0 The “create new project” link takes the user to the New Project Page. (See Figure 3)

FR4.0.0.0.0.0 The application allows the user to create a new project through the New Project Page. (See Figure 3)

FR4.1.0.0.0.0 The New Project Page contains a link to log out.

FR4.2.0.0.0.0 The New Project Page contains a Textbox(1,30) for specifying the project name.

FR4.3.0.0.0.0 The New Project Page contains a Textbox(1,16) for specifying the database IP address (or host).

FR4.4.0.0.0.0 The database IP textbox must contain a valid hostname/IP address.

FR4.5.0.0.0.0 The New Project Page contains a Textbox(1,15) for specifying the database port.

FR4.5.1.0.0.0 The port field should contain a valid port number.

FR4.5.2.0.0.0 The database port textbox only allows integer values.

FR4.6.0.0.0.0 The New Project Page contains a Textbox(1,20) for the database user name (if applicable).
FR4.7.0.0.0.0 The New Project Page contains a Textbox(6,15) for the database password (if applicable).

FR4.7.1.0.0.0 The password display character is ‘*’.

FR4.7.2.0.0.0 The New Project Page contains a Textbox(1,255) for specifying the host URL.

FR4.8.0.0.0.0 The New Project Page contains a button for saving the project settings.

FR4.9.0.0.0.0 A new project cannot be saved unless the user inputs a valid project name, IP address, port number, and a database username and password if needed.

FR4.10.0.0.0.0 Error text will be displayed if the project is not saved, and the invalid text box will clear.

FR4.11.0.0.0.0 The save button takes the user to the View Galleries Page and stores the project settings. (See Figure 4)

FR4.11.1.0.0.0 The cancel button takes the user to the Project Selection Page. (See Figure 2)

FR5.0.0.0.0.0 The Project Settings Page is identical in layout to the New Project Page except that the fields are already filled-in depending on which project is selected.

FR5.1.0.0.0.0 In the Project Settings Page, the cancel button differs in functionality from the button defined in FR4.11.1.0.0.0 in that upon clicking, instead of taking the user to the Project Selection Page, it takes the user to the View Galleries Page.

FR6.0.0.0.0.0 The application allows the user to view project galleries. (See Figure 4)

FR6.1.0.0.0.0 The View Galleries Page contains the Administrative Header.

FR6.2.0.0.0.0 The View Galleries Page contains a link to the Project Settings Page. (See Figure 3)

FR6.3.0.0.0.0 The View Galleries Page contains a link to the Create New Gallery Page. (See Figure 6)
The View Galleries Page contains a link to the View Watermarks Page. (See Figure 9)

All galleries in the project are shown on the View Galleries page as gallery entries.

A gallery entry contains a user-selected thumbnail.

The thumbnail links to the Configure Gallery Page. (See Figure 6)

A gallery entry has an arrow button to move an entry up in the gallery listing.

A gallery entry has an arrow button to move an entry down in the gallery listing.

A gallery entry contains a button to enable or disable a gallery from being shown on the production site.

The default setting is enable and the link will be blue.

When “enable” is clicked, the text will change to “disable”, and the link will be red.

When the link says “disable”, the corresponding gallery will not be shown on the production site.

Above each gallery entry there is a link to the View Images Page. (See Figure 7)

A gallery entry contains a link to the Configure Gallery Page. (See Figure 6)

A gallery entry contains a link to the Delete Gallery Page. (See Figure 5)

The “yes” button on the Delete Gallery Page erases the gallery from the database and the gallery entry, but not the images in it.

The “yes” button takes the user back to the View Galleries Page. (See Figure 4)

The “no” button takes the user back to the View Galleries Page. (See Figure 4)
FR6.0.0.0.0 The View Galleries Page shows a maximum of N gallery entries per page.

FR7.0.0.0.0 The application allows the user to configure/create the galleries. (See Figure 6)

FR7.1.0.0.0.0 The Configure Gallery Page contains the Administrative Header.

FR7.2.0.0.0.0 The Configure Gallery Page contains a Textbox(1,50) for the gallery title.

FR7.3.0.0.0.0 The Configure Gallery Page contains a Textbox(0, 255) for the gallery description.

FR7.4.0.0.0.0 The Configure Gallery Page contains a Textbox(0, 50) for the gallery author.

FR7.5.0.0.0.0 The Configure Gallery Page contains a Textbox(1, 10) of integers only for the thumbnail size to be displayed.

FR7.5.1.0.0.0 The thumbnail size is measured in pixels.

FR7.5.2.0.0.0 The default number of pixels is N pixels.

FR7.6.0.0.0.0 The Configure Gallery Page contains a Textbox(1,2) of integers where the only values accepted are integers between 1 and 50 for the number of thumbnails to be displayed per page.

FR7.7.0.0.0.0 The Configure Gallery Page contains a link to the Set Default Effect page (Titled “Set Defaults”). (See Figure 12).

FR7.7.1.0.0.0 The Configure Gallery Page contains a listbox showing the default effects already set by the user.

FR7.8.0.0.0.0 The Configure Gallery Page contains a link to the Set Default watermark page (Titled “Set Defaults”). (See Figure 10)

FR7.8.1.0.0.0 The Configure Gallery Page shows the default watermarks already set by the user.
The Configure Gallery Page contains a link to the Set Default Category page (titled “Set Defaults”). (See Figure 11)

The Configure Gallery Page contains a listbox showing the default categories already set by the user.

The Configure Gallery Page contains a button to save gallery settings.

When save is clicked, an error will appear asking the user to provide input if information for the title, description, thumbnail size, or number of thumbnails per page textboxes does not exist.

The save button saves changed gallery settings and takes the user back to the View Galleries Page. (See Figure 4)

The Configure Gallery Page contains a cancel button that saves no changes and takes the user back to the View Galleries page. (See Figure 4)

The Create New Gallery Page is identical in layout to the Configure Gallery Page except that the fields are all blank.

The application will allow the user to view all watermarks in a project. (See Figure 9)

The View Watermark Page contains the Administrative Header.

The View Watermark Page contains a link to the Create New Watermark Page. (See Figure 13)

All watermarks in the project are shown on the View Watermarks page as watermark entries.

Each watermark entry has a link to the Configure Watermark Page above it. (See Figure 17)

Each watermark entry has a link to the Delete Watermark Page. (See Figure 16)

The “yes” button on the Delete Watermark Page erases the watermark from the database.
FR8.4.1.1.0 The “yes” button takes the user back to the View Watermark Page. (See Figure 9)

FR8.4.2.0.0 The “no” button takes the user back to the View Watermark Page. (See Figure 9)

FR8.4.3.0.0 The Delete Watermark page shows a thumbnail of the watermark about to be deleted.

FR8.5.0.0.0 The View Watermarks Page has a link to the View Galleries Page. (See Figure 4)

FR9.0.0.0.0 The application allows the user to configure a watermark for a particular gallery. (See Figure 17)

FR9.1.0.0.0 The Configure Watermark Page contains the Administrative Header. (See Figure 17)

FR9.2.0.0.0 The Configure Watermark Page contains a Textbox(1, 50) for the watermark title.

FR9.3.0.0.0 The Configure Watermark Page contains a Textbox(0, 255) for the watermark description.

FR9.4.0.0.0 The Configure Watermark Page contains a preview of the watermark in a thumbnail form.

FR9.5.0.0.0 The Configure Watermark Page contains a Textbox(1,3) in percentage form for the opacity for the watermark.

FR9.5.1.0.0 The Default opacity is set to N%.

FR9.6.0.0.0 The Configure Watermark Page contains a grid to show the location of the watermark with respect to the image.

FR9.6.1.0.0 The default position is the upper right corner.

FR9.7.0.0.0 The Configure Watermark Page has an update button to save the new settings.

FR9.7.1.0.0 When update is clicked, an error will appear asking the user to provide input if information for the textboxes: title and description does not exist.
The Configure Watermark Page has a cancel button, which links back to the View Watermarks Page (See Figure 9) without saving any changes (NOTE: Not shown on Figure).

The application allows the user to create new watermarks. (See Figure 13)

The Create New Watermark Page contains a TextBox(1, 50) for the watermark title.

The Create New watermark Page contains a TextBox(0, 255) for the watermark description.

The Create New Watermark Page has a browse button the user can hit to search for a watermark image to upload.

The browse button opens up a popup in which the user can search a file system for the watermark.

The error text will be displayed if a non supported watermark file is uploaded.

The Create New Watermark Page contains a thumbnail of the uploaded watermark (NOTE: Not shown on Figure).

If no watermark is uploaded, the thumbnail is grayed out.

The Create New Watermark Page has a save button to save the new watermark settings.

When save is clicked, an error will appear asking the user to provide input if information for the textbox: title does not exist or no image was uploaded.

If no error is reported, the save button takes the user back to the View Watermarks page, and the Watermark listing is updated.

The Create New Watermark Page has a cancel button that takes the user back to the view watermark page without saving any new watermark settings.

The application allows the user to view gallery images. (See Figure 7)

The View Images page contains the Administrative Header.
FR10.2.0.0.0.0 The View Images page contains a link to upload image(s).

FR10.3.0.0.0.0 The View Images page contains an image entry for each image in the gallery.

FR10.3.1.0.0.0 The image entry links to the Configure Image Page. (See Figure 8)

FR10.3.2.0.0.0 An image entry contains a link with the name of the image.

FR10.3.2.1.0.0 The name of the image is the filename that it was uploaded as.

FR10.3.2.2.0.0 The image entry file name links to the Configure Image Page. (See Figure 8)

FR10.4.0.0.0.0 The View Images page contains a link to the View Galleries Page. (See Figure 4)

FR10.5.0.0.0.0 The application allows the user to configure the image properties. (See Figure 8)

FR10.6.0.0.0.0 The Configure Image Page contains the Administrative Header.

FR10.7.0.0.0.0 The Configure Image Page contains a thumbnail preview of the chosen image.

FR10.8.0.0.0.0 The Configure Image Page contains a name editable text field.

FR10.9.0.0.0.0 The Configure Image Page contains a date submitted editable text field.

FR10.10.0.0.0.0 The Configure Image Page contains an uneditable text field, which displays which gallery this image belongs to.

FR10.10.1.0.0.0 If a Gallery was already defined for this image, it will be displayed here.

FR10.11.0.0.0.0 The Configure Image Page contains a text field that shows the Image Description.
FR10.12.0.0.0.0 The Configure Image Page contains a save button, which saves changes made to the name, date, and gallery text fields.

FR10.12.1.0.0.0 The save button takes the user back to the View Images Page. (See Figure 7)

FR10.13.0.0.0.0 The Configure Image Page contains a cancel button which takes the user back to the View Images Page (See Figure 7) without saving any changes.

FR10.14.0.0.0.0 The Configure Image Page contains a link “Change” which opens the “Set Categories Popup”.

FR10.14.1.0.0.0 A listbox displaying the current categories for the image is above the “Change” link.

FR10.15.0.0.0.0 The Image Configuration Page contains a link “Set Watermark” which takes user to the “Set Watermark Popup”.

FR10.15.1.0.0.0 The current watermark for the image is above the “Change” link.

FR10.15.2.0.0.0 If no watermark is configured for this image the box will be grayed out.

FR10.16.0.0.0.0 The Image Configuration Page contains a link “Set Effects” which takes the user to the “Set Effect Popup”.

FR10.16.1.0.0.0 A listbox displaying the current effects for the image is above the “Change” link.

FR10.17.0.0.0.0 The Set Watermark Popup contains a listbox propagated with all available watermarks. (See Figure 10)

FR10.17.1.0.0.0 The Set Watermark Popup contains a listbox propagated with all watermarks that the user selected.

FR10.17.2.0.0.0 The Set Watermark Popup contains a link to add a watermark to the user selected watermarks listbox, which removes the watermark from the available watermarks listbox.

FR10.17.3.0.0.0 The Set Watermark Popup contains a link to remove a watermark from the user selected watermarks listbox,
which adds the watermark to the available watermarks listbox.

FR10.17.4.0.0.0 The Set Watermark Popup contains a link to the View Watermarks Page.

FR10.17.5.0.0.0 The Set Watermark Popup contains a button to cancel the popup.

FR10.17.5.1.0.0 The cancel button sends the user to the page it was at before (Configure Gallery, Configure Image, or Configure Uploaded Images) without saving any changes.

FR10.17.6.0.0.0 The Set Watermark Popup contains a button to save the changes.

FR10.17.6.1.0.0 The save button sends the user to the page it was at before (Configure Gallery, Configure Image, or Configure Uploaded Images) and saves any changes.

FR10.17.7.0.0.0 The Set Effects Popup contains a listbox propagated with all available effects. (See Figure 12)

FR10.17.8.0.0.0 The Set Effects Popup contains a listbox propagated with all effects that the user selected.

FR10.17.9.0.0.0 The Set Effects Popup contains a link to add a filter to the user selected effect listbox, which removes the effect from the available filters listbox.

FR10.17.10.0.0.0 The Set Effects Popup contains a link to remove an effect from the user selected effects listbox, which adds the effect to the available effects listbox.

FR10.17.11.0.0.0 The Set Effects Popup contains a button to cancel the popup.

FR10.17.11.1.0.0 The cancel button sends the user to the page it was at before (Configure Gallery, Configure Image, or Configure Uploaded Images) without saving any changes.

FR10.17.12.0.0.0 The Set Effects Popup contains a button to save the changes.
The save button sends the user to the page it was at before (Configure Gallery, Configure Image, or Configure Uploaded Images) and saves any changes.

The Set Categories Popup contains a listbox propagated with all available categories. (See Figure 11)

The Set Categories Popup contains a listbox propagated with all categories that the user selected.

The Set Categories Popup contains a link to add a category to the user selected categories listbox, which removes the category from the available categories listbox.

The Set Categories Popup contains a link to remove a category from the user selected categories listbox, which adds the category to the available categories listbox.

The Set Categories Popup contains textbox to specify a new category to add.

The Set Categories Popup contains a button to add a new category.

The Set Categories Popup contains a link to cancel the popup page.

The cancel button sends the user to the page it was at before (Configure Gallery, Configure Image, or Configure Uploaded Images) without saving any changes.

The Set Categories Popup contains a link to save the changes.

The save button sends the user to the page it was at before (Configure Gallery, Configure Image, or Configure Uploaded Images) and saves any changes.

The application allows the user to upload images. (See Figure 14)

The Upload Image(s) Page contains textbox to specify a file name or folder.

The textbox is uneditable, it displays the path loaded from the browse button.
FR11.2.0.0.0.0 The Upload Image(s) Page contains a browse button to browse the local file system to find a file or folder.

FR11.3.0.0.0.0 The Upload Image(s) Page contains an add button to upload another image.

FR11.3.1.0.0.0 The Add button will make another uneditable textbox, add button, and browse button appear directly beneath.

FR11.4.0.0.0.0 The Upload Image(s) Page contains an upload button to upload the image(s) that uploads the images under the gallery name that the user is under.

FR11.4.1.0.0.0 The Upload button takes the user back to View Images, and the uploaded images will now be at the beginning of the image listing. (See Figure 7)

FR11.5.0.0.0.0 The Upload Image(s) Page contains a cancel button to take the user back to the View Images Page (See Figure 7) without uploading anything.

FR11.6.0.0.0.0 The Upload Image(s) Page contains a checkbox to indicate whether the uploaded images should use default gallery settings.

FR11.6.1.0.0.0 If the default setting checkbox is checked, the default effect, watermark, and categories will apply to the image(s).

FR11.6.2.0.0.0 If the default settings checkbox is unchecked, a Next button will take the place of the upload button.

FR11.6.3.0.0.0 The Upload Image Page checkbox is initially checked.

FR11.7.0.0.0.0 The next button takes the user to the Configure Uploaded Images Page. (See Figure 15)

FR11.8.0.0.0.0 The Configure Uploaded Images Page shows an image listing of the images the user wishes to upload.

FR11.9.0.0.0.0 The Configure Uploaded Images Page shows a listbox of the categories the group of images is a part of.

FR11.10.0.0.0.0 The Configure Uploaded Images Page has a link to the “Set Categories Popup” entitled “Set Categories”.
FR11.11.0.0.0.0 The Configure Uploaded Images Page shows a listbox of the effects the group of images is a part of.

FR11.12.0.0.0.0 The Configure Uploaded Images Page has a link to the “Set Effects Popup” entitled “Set Effects”.

FR11.13.0.0.0.0 The Configure Uploaded Images Page shows the watermark applied to the images.

FR11.14.0.0.0.0 The Configure Uploaded Images Page has a link to the “Set Watermark Popup” entitled “Set Watermark”.

FR11.15.0.0.0.0 The Configure Uploaded Images Page has an upload button which uploads the images under the gallery name the user is under.

FR11.16.0.0.0.0 The Configure Uploaded Images Page has a cancel button which takes the user back to the View Images Page. (See Figure 7).

FR12.0.0.0.0.0 The application allows the administrator to perform a search on the galleries in a project through The Administrative Search Page. (See Figure 19)

FR12.1.0.0.0.0 The Administrative Search Page contains the Administrative Header.

FR12.2.0.0.0.0 The Administrative Search Page contains a listbox propagated with all available watermarks.

FR12.3.0.0.0.0 The Administrative Search Page contains a listbox propagated with all watermarks that the user selected.

FR12.4.0.0.0.0 The Administrative Search Page contains a link to add a watermark to the user selected watermarks listbox, which removes the watermark from the available watermarks listbox.

FR12.5.0.0.0.0 The Administrative Search Page contains a link to remove a watermark from the user selected watermarks listbox, which adds the watermark to the available watermarks listbox.

FR12.6.0.0.0.0 The Administrative Search Page contains a Description search textbox.
The Administrative Search Page contains a text field for a beginning date to be used for the date search.

The Administrative Search Page contains a text field for an ending date to be used for the date search.

The Administrative Search Page contains a button, which displays a calendar so the user can select a specific beginning date.

The Administrative Search Page contains a button, which displays a calendar so the user can select a specific ending date.

The Administrative Search Page contains a Photographer search textbox.

The Administrative Search Page contains a button labeled “Search” which takes you to the search result page. (See Figure 18)

The Search Results Page contains the Administrative Header. (See Figure 18)

The Search Results Page contains Image Entries.

The Search Results Page contains a link to save the resulting images into a new gallery.

The Search Results Page link takes the user to the Gallery Configuration page.

The application allows special users of the website to search the site. (NOTE: No figure shown below)

The link to the Special User Search Page is on the user’s website.

The Special User Search Page has the same functionality as the Administrator Search, however the “special user” can only search on category and description.

The Special User Search Results Page displays just like the the Search Results Page except it only shows Image Entries.
Non-Functional Requirements

- **Environment**
  
  NFR1.0 The user is required to have a web server installed on the machine that will be hosting **Gallery Pro**.

  NFR2.0 The user is required to have access to a MySQL database and have sufficient access to be able to create, modify, and select from a database.

  NFR3.0 The application supports the following image formats: jpg, gif, bmp, tif, and png.

- **Performance**
  
  NFR4.0 The application displays each web page in no more than ten seconds.

- **Reliability**
  
  NFR5.0 The application is accessible and function at all times.

  NFR5.1 In the event of an unreliable client, data that is not properly saved will be lost.

- **Robustness**
  
  NFR6.0 The application maintains only the data in its repository; thus, a user’s images will not be destroyed from their original source (e.g. the filesystem).

  NFR7.0 The application does not block access to any images.

- **Security**
  
  NFR8.0 The application permits only users with a valid username and password to login.

- **Portability**
  
  NFR9.0 The application runs on any operating system that is supported by the Java environment.

- **Scalability**
  
  NFR10.0 The application allows multiple users to operate at the same time.
References

Glossary

A

Administrator (as defined in functional requirements 9.0 and above): Also know as the user, the photographer who owns Gallery Pro and is the creator of The website.

C

Category: a keyword describing an image used for searching.

G

Gallery: Collection of images.

Gallery Entry: Found on the View Galleries Page, contains a thumbnail of the first image stored in the gallery, the title, and a description no longer than 30 words. If no images are in the gallery the thumbnail is grayed out.

Gallery Listing: A collection of 1 or more gallery entries on the View Galleries page. The Listing is arranged in the order the galleries are uploaded unless the user changes the order.

I

Image Entry: A thumbnail of an image found on the View Images Page. Image entries are shown based on an N x M grid.

Image Listing: The listing of thumbnails of images in a gallery found on the View Images Page. The images are listed in the order they were uploaded.

J

Java Runtime Environment: The Java Runtime Environment allows user’s computer to execute Java files. More information can be found at Sun’s website [www.sun.com]

P

Project: Collection of galleries grouped under one name for display on the website.

S

Special User: A user that is a casual user of the website owned by the owner of our software. They only have access to the Special User Search.
T
Textbox(x,y): A general textbox accepting a minimum of x characters and a maximum of y characters.

U
User (as defined in functional requirements 9.0 and above): Also known as the Administrator, the owner of our software, GalleryPro. Not to be confused with a “special user”.

W
Watermark Entry: Found on the View Watermarks Page, contains a thumbnail of the watermark stored in the project, the title, and a description no longer than 30 words.

Watermark Listing: A collection of 1 or more watermarks on the View Watermarks page. The Listing is arranged in the order the watermarks are uploaded.
PROJECT SELECTION

CREATE NEW PROJECT

PROJECTS

PROJECT 1
PROJECT 2
JEFF'S WEEKEND EXCURSION

LOG OUT
PROJECT SETTINGS

PROJECT NAME: ______________________

DATABASE

IP ADDRESS: _______________________
PORT: _______________________

USERNAME: _______________________
PASSWORD: _______________________

WEBSITE

HOST URL: _______________________

SAVE | CANCEL
DELETE CONFIRMATION POPUP

ARE YOU SURE THAT YOU WANT TO DELETE THIS GALLERY?

YES  NO
VIEW IMAGES

* Upload Image(s)

- Thumb
  - Filename.jpg

- Thumb
  - Filename.jpg

- Thumb
  - Filename.jpg

...
[CREATE NEW WATERMARK]

THUMB | TITLE | DESCRIPTION | CONFIGURE | DELETE

BACK TO VIEW GALLERIES
SELECT WATERMARKS POPUP

AVAILABLE: [Blank]

SELECTED: [Blank]

GO TO VIEW WATERMARKS

SAVE | CANCEL
SELECT EFFECTS POPUP

AVAILABLE:

SELECTED:

SAVE
CANCEL

FIGURE-12
UPLOAD IMAGES

FOLDER: [ ]

BROWSE

ADD

[ ] USE DEFAULT
CATEGORY SETTINGS

UPLOAD/NEXT
CANCEL
ARE YOU SURE YOU WANT TO DELETE THIS WATERMARK?

THUMB

YES  NO
SEARCH RESULTS PAGE

SEARCH RESULTS:

THUMB
CLIMATE NAME
...

SEARCH | PROJECT SETTINGS | LOCATOR

SAVE SEARCH RESULTS AS NEW GALLERY

BACK VIEW GALLERIES CONFIGURE GALLERY

links not buttons
SEARCH

CATEGORIES

MOUNTAINS
FOUNTAINS
CHILDREN

SEARCH

DESCRIPTION

KEYWORDS

DATE RANGE

FROM: [ ] TO: [ ]

PHOTOGRAPHER

NAME:

SEARCH