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## Installation Instructions

1. Download the program's tar file.
2. Untar the file in the /catalina/webapps directory. You should now have a directory called c391proj.
3. \$ cd /path/to/catalina/webapps/c391proj/WEB-INF/classes
4. \$ make
5. \$ starttomcat
6. Open a browser (preferably one with html5 support) and navigate to <http://ui???.cs.ualberta.ca/c391proj>
7. Happy browsing!

## User Management

### Login

To login, you must first be registered. You must also enter a valid username and password combination. If an incorrect combination is entered, you will be prompted to try again.

### Register

To register, you must enter a unique username and email. If the entered username and/or email is already in use, you will be prompted to try again. You must also enter your name, phone number, address, and phone number, along with a password.

### Logout

You may logout of the system by clicking the "logout" link at the top of the page.

## Setting Photo Permissions

### Manage Groups

Your groups are used to define which users will have access to your photos, on a photo-by-photo basis. Click on the "manage groups" link at the top of the page to manage your groups.

To add a new group, type the group's name into the "New Group" box. Once a group exists, you may add users to it by typing the user's username in the "New Friend" box. If the username does not exist, you will be prompted to try again.

To delete a group or a user, click the checkbox next to its name.

Click the "Submit" button for the changes to take effect.

### Setting a Photo's Security

When deciding on who may see your photo, you have three options:

1. Private: Only you may see the photo
  2. Public: Everyone may see the photo
  3. Group: You may select one group. Only the users in that group will be able to see your photo
- If you fail to choose a security setting, the private setting will be selected for you.

You may set a photo's security when it is [uploaded](#). You may alter a photo's security on the [Browse Pictures](#) page.

## Uploading Files

### Individual Files

To upload a photo, you must select the file. You may enter any information you wish in the subsequent fields. The current date will be used by default, and the security will default to private.

If you fail to select a file, you will be prompted to try again.

### Folder of files

To upload a folder of photos, you must select the folder using the jUpload applet. Click the applet's "Upload" button to load the photos. You may enter any information you wish in the subsequent fields. The current date will be used by default, and the security will default to private.

If you fail to select a file, you will be prompted to try again.

**Note: The photos are not fully uploaded to the database until the "Upload" button at the bottom of the page is clicked.**

## Displaying Photos

### Browse Photos

You may browse all photos available to you by clicking the Browse "Photos" link at the top of the page.

You must choose to browse through:

- Public: All public photos
- Public Top 5: The 5 most viewed public photos
- Private photos: The photos you designated as private
- Group photos: The groups to which you belong

### Update Descriptors

You may update your photo's descriptors, including security, by clicking the "Edit Image Description" link to the right of the photo's thumbnail. Clicking the "Upload" button will submit your changes.

### Full Size Photo

Clicking an image's thumbnail will display a full-size photo.

## Searching for Photos

You may search through photos by clicking the "search" link at the top of the page. A search may be performed by typing in any number of keywords and/or providing a date range.

### Keywords

Searching with keyword(s) will limit the search results to photos containing the keyword(s) in their Title, Subject, or Description.

### Date

Selecting a date range will limit the search results to photos with a date set to the selected range.

## Data Analysis

The admin user is able to access all photos in the database, and is able to access the photo analytics. You may log in as the admin user with the password "admin".

To view data information, you must first choose a data timeframe - daily, weekly, monthly, or yearly. The following data summary items will then be displayed for the selected time breakdowns:

- Users registered
- Images uploaded
- Image description word count

Below the summary, you will find a listing of changes by time period.