



WEBAPDE Machine Project

Machine Project 2

Image Sharing - [Beta] Data flow

Your task is to create a web application that allows its users to share images publicly and privately to a set of chosen users.

NOTES

- The application will be built using HTML, CSS, JS, and JSP EL, and Servlets. Database dialect is expected to be MySQL.
- If there are any questions, or the specifications seem vague, approach your teacher immediately for clarifications.
- In this beta project:
 - All views must be visible and can be navigated to from the first page
 - Architecture need not implement MVC yet, but highly encouraged. For encouragement, MP3 is required to be MVC.
 - Database design must be complete

FEATURES

View all public photos

Upon visiting the web page, an unregistered visitor may see the 15-20 most recently uploaded public photos in a grid of thumbnails. The user has can see the next set of recently uploaded photos, it is up to the group whether they want to implement in the same or another page. Clicking the thumbnail will let the user view the photo (see: **view a photo**).

Apart from the public photos, the user will also see photos shared with them in a separate section in the home page. (see: **share a photo**)

View a user profile

Each user has their own page which shows their profile publicly. On the same page, a visitor may see the user's username and their short description. They may also see a portion of the user's latest photos. The visitor may opt to see the rest of the photos. It is up to the group if this going to be loaded on the same page or a different one.

Register

A visitor must register if they want to upload. Here, a visitor must enter their username, their password, and a short description (can be left empty).

Log in

After registering properly, a visitor may log-in. Upon logging in, the user can start uploading photos. The user is given the option to be "remembered" by the website. When the user chooses this option, every log in and visit to the website will extend their "remember" period by 3 weeks.

Note The user needs to be logged in before seeing any photo they own or given access to. If the user is logged in and views a photo, the URL leading to that photo should throw a restricted error when the user is not logged in.

Logout

The user may log out from their account. This should cut short the “remember” period if it exists, and clears any session-related data.

Upload a photo

A user may upload a photo (JPG, PNG, TIFF) from their local drive. They must give a title for the photo, and they can leave a description and tags about the photo (see: **tag a photo**). The user must also choose whether the photo is public or private. The tags must be structured properly as this will be used later for searching.

Note Make sure that the upload file is a photo of the allowed formats.

Share a photo

A user may give another user privilege to view their photo by adding the other user’s username to the “allowed” list of the photo. This option is only available if the photo is private.

View a photo

A visitor/user can see a photo’s details as long as it is publicly shared, or allowed for them to view. The photo will be shown in full resolution, with the title, description, uploader, and the tags associated to it. At this stage, the user who owns the photo may also append more tags (see: **tag a photo**).

Tag a photo

A user who owns the photo may add tags to a photo when uploading or viewing the photo.

Search a photo by tags

A visitor/user can search for photos using tags. By entering a tag, all photos with that tag will appear as results.

General

Good user experience. Visitor can easily navigate without help, all information are easy to access.

Good visual design. Design suits the theme of the application, and is cohesive and consistent across the whole application.

GRADING

This is a beta version of your final MP, which will contain the same specifications but will have a different grading scheme. This beta project has a total of 97pts, and represents 20% of your grade.

Groups are encouraged to aim for the MP completion, but will not be given additional points for doing so.

Feature	Points
All views are created	30

(with dummy data)	
Proper navigation (through servlets if needed)	30
Complete database design	15
Applied session cookies on username	5
User experience	12
Visual design	5

SUBMISSION

The group will submit and demo their application to their teacher on their appointed demo schedule on July 28 (F). Appointment of demos will done earlier on the same week.