

UNIVERSITY OF PRETORIA

DEPARTMENT OF INFORMATION SCIENCE

IMY 220: Semester Project Version 2

1. Overview

For the semester project you will create a link sharing website. People can create user profiles on this website and share links with their friends. The friends are managed through the website. You have to use the appropriate technology for each section.

2. Deliverables

A link sharing website.

I. Users

Create a section where the user can register and edit their own details. The user section also includes logging in and out. The user can also delete themselves from the system.

- The user must have the usual user information (username, password, email address, first name, last name, birthday, etc.).
- The user must be able to add a profile picture of themselves of 50px by 50px
- The user can become friends with other users on the site
 - o The user can search for someone and send them a friend invite
 - o The user can accept an invite from someone on the site
- The user must be able to create new links
 - o The user can remove the links they created
 - o The user cannot remove other users' links
 - o The user can delete comments only on links they themselves created
- "Delete" removes all database relationships, comments made, images uploaded
- Deleting a user DOES NOT remove the links they created
 - o Reassign the links to the administrator account

II. Links

Create a section where users can add and remove these links. There also needs to be a section where users (registered or not) can view the links with all of the link's details (comments and ranking as well).

- The links can be added by users and must contain at least the following information:
 - o The URL
 - o A description of the link
 - o What category the link belongs to
- Users can comment on links created by themselves and those of their friends
- Any user (signed in or not) can rate a link (how you implement the rating system is up to you – thumbs, stars, hyperlinkiness, etc.)
- "Delete" removes all comments, votes, and database relationships

III. Search

Add search functionality that allows a user to search for the following:

- Users can search for possible friends based on:
 - o First name
 - o Last name
 - o Username
 - o Email address
- Search links based on:
 - o Description
 - o Category
 - o Friends who commented
 - o Friends who created

IV. Access control

Create an appropriate set of rules for the different roles on the website:

- Registered users can:
 - o Add/remove their OWN links
 - o NOT add categories
 - o add comments to friends' created links
 - o rate any link
- Unregistered users can:
 - o NOT add/delete links
 - o NOT add categories
 - o NOT comment on ANY links
 - o rate any link
- Administrator can:
 - o Add/remove/edit ANY links
 - o Add/remove/edit link categories
 - o Rate any link and reset the rating
 - o Add/remove/edit users
 - o Add/remove/edit ANY comment

3. General

Different technologies need to be used for different aspects of the website.

- All the pages must be validated by either using HTML 5, and or JavaScript, and or jQuery. Keep in mind browser support.
- Filtering and sanitizing must be done using PHP
- Enhancements (menus, animations, aesthetic changes) must be done using jQuery and CSS
- All pages must be created using well-formed HTML 5
- You must use a MySQL database to store your data
- You must use sessions or cookies to manage access control
- You MUST use AJAX and JSON to send the data from the HTML files to the PHP
- You use the PHP files to:
 - o Write data to the database
 - o Sanitize and filter data
- The website must be well designed (look and feel DO count)
- No browser sniffing is allowed!
- Make use of namespacing

- We will be marking whether or not you made use of progressive enhancement (thus, the user should still be able to navigate pages, browse links, etc without JS). You are not required to make everything workable with JS switch of, only the basics of the site.
- Check the slides for how to write well formed jQuery

4. Submission

Please follow the submission guidelines.

- Submit the complete website as well as your exported database (in a .sql file) in a zip file
- The zip file **MUST** be called sXXXXXXX_SP.zip where XXXXXXXX is your student number
- The project must be submitted via ClickUp on or before the deadline date
- Deadline: **20th October 2011 23:59**