

IMD420 Final Project

Due Date: Week 10 (Your deliverables have to be submitted by this date)

Presentation: Week 10 (Everyone is required to be present and prepared to give an oral presentation demonstrating the developed application.)

Objective

Your objective is to implement a dynamic database driven application that uses multiple database tables. You should also use JQuery to create a dynamic user interface.

Your application must have the following functionality:

- **Content Management:** Application must store content information in multiple database tables, displayed to the user in an integrated seamless manner. An easy-to-use interface is required to allow editors (users who create content/administrator) to add, remove, or modify content.
- **User Authentication:** A membership system whereby a many users have roles, usernames and passwords to access the CMS application. The CMS must have an administrative backend whereby a user with the administrator role can carry out administrative tasks such as selecting/inserting/updating/deleting from the CMS database tables i.e. user accounts and the content added users.
- **Search:** Content in the CMS should be categorized and the user should have the ability to 'tag' content. The user has the ability to search the tables (**security: carefully consider which tables you want users to be able to search and what fields they are able to view**). Search results must be displayed as multiple pages for results more than 10, 20, 30 etc. Page 1 shows the first 10, 20, 30 etc. and Page 2 the second 10, 20, 30 etc.
- **Page uniformity/templates:** A well designed front-end and back-end. The CMS should have a uniform look and feel, and this design element needs to be separated from the logic element, e.g., the programming required to display an article should be separated from how that article looks (stylistically) on the screen.

Note: Your project proposals will have to specify what the functionality of your application would be.

Assessment

User Friendliness (5%)

- How easy is it to locate a particular feature?
- How easy is it to use or learn to use your application?
- How many "clicks" or "keystrokes" does a user need to complete a particular task?

Appearance (5%)

- Is the appearance of the whole application consistent?

- Is your application taking up too much or too little area on the screen?
- Is your application looking too plain or too complicated?

Knowing your application inside out (20%)

[Be prepared to answer various questions about your application during the demo.]

- How secure is your application?
- What are the limitations of your application?
- What kinds of future improvement would you make to your application?
- How well does your application scale? What is the bottleneck of your application?
- How would your application benefit from using AJAX/some other technology?
- If one wants to change or add a particular feature, where and how should he/she make the changes?

Functionality (60%)

(a) Having implemented all the required pages

(b) How well functionality is implemented.

(c) Correctly track the login status of a user on all pages where it needs to be tracked.

Extra Efforts (10%)

- Anything else added to make your application better.

Deliverables

- PROCESS BOOK – standard process book + database schema + flow control chart
- Zip file of entire application: all code, all logins needed, all html/css, all images, sql output of database tables, all other files necessary for the application, process book.