

The realization of this prototype will consist of **four modules** that will be evaluated independently. Module A will be independent of the remaining of the project. Module B, C and, D will be to create a prototype for an e-Commerce application.

## Module A 2 hours @ 150 points

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Module A will be concentrated on the design of a homepage using an image editing application.

You will need to create the design of the homepage for a fictional concert hall, The Edmonton Concert Hall. The Web site will serve to display upcoming shows and events.

### Evaluation

You will be evaluated on the design of the page; both graphically and logically, as well as on the ergonomics of the Web site.

### Requirements

- Fit with the identity of the business
- Search area
- Upcoming events section
- Viewable on a 1024x786 pixel resolution

### End Result

A static image file (high quality JPG or PNG-24) of the design along with the source files used (PSD, AI, etc).

### Side Note

There will be a People's Choice award for the designs where the public will be able to vote for their favourites. However, please keep in mind that this will **not** have any impact on the evaluation of the projects.

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## Module B 2 hours @ 250 points

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The goal of module B will be to convert a supplied Photoshop document images into two **valid** XHTML/CSS pages. The end result will be two XHTML pages that match the provided document as closely as possible.

### Pages

The three **static** pages consist of:

- A homepage
- A registration page (later on this could be integrated on the homepage)

### Requirements

#### XHTML

- Good page title
- Appropriate metadata
- Appropriate use of divs and tables (if required)

#### Images

- Must be optimized
- Include alt attributes
- Used appropriately as inline images or as CSS background when needed
- Logical structure and placement of images in folders

#### CSS

- Using an external CSS file
- Comments

### End Result

The end result should be two XHTML/CSS pages that work on the latest versions of Internet Explorer, Firefox and Chrome. The pages should look as close as possible to the provided document in all browsers. Some minor variations are acceptable.

## Module C 3 hours @ 200 points

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Module C will concentrate on the client side scripting, also known as JavaScript, using native JavaScript or using JavaScript libraries (jQuery, Mootools or Prototype).

### Goals

- To create an interactive cart with a product list. The user should be able to add items to their cart without the page refreshing. The total amount due should be calculated automatically every time an item is added to the cart
- Pagination should be added to the product page, pagination with AJAX functionalities, the listing of products should be updated using AJAX
- Validation on the registration form

### Requirements

- Cart should update without refreshing the page
- The total due should update (subtotal, tax and total)

### Animation

- Animation would be a plus

### End Result

The product listing page should have a functional add to cart feature and have pagination. The registration page should have validation.

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## Module D 4 hours @ 400 points

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Module D is the final integration of all functionalities. After this module, the Web site should be functional.

- Users should be able to register and login **securely**
- Cart should be functional
- Invoice page should be done (no payment processing will be done)
- Product listing (catalog) should be dynamic (entries from the database)

### Requirements

- Dynamic product listing
- Invoice page
- Secure login
- Page to edit user profile (password and information)
- Cart should save itself

### End Result

The final prototype should be fully functional for the end user.

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# Softwares

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## Base System

- Windows 7
- MS Office

## Text Editors / Design Tools

- Dreamweaver
- Programmers Notepad 2
- HTML Kit
- Notepad++
- Editplus
- UltraEdit
- Textpad
- Metapad
- PHP Designer
- Aptana Studio
- Vim Colour Editor

## Graphics

- Photoshop
- Illustrator
- Flash
- Freehand
- Fireworks
- Paintshop Pro
- GIMP
- Inkscape

## Browsers – latest stable versions:

- Internet Explorer, Chrome, Firefox
- Firefox extensions
  - Firebug
  - Web Developer

## XAMPP (installed locally)

- Apache
- PHP
- MySQL database
- phpMyAdmin