

CSI 3140 / CSI 3540
WWW Structures, Techniques and Standards

Assignment #1:
Description and Static User Interface

Due: February 19, 2013, in class (for the printouts) and by email to the TA

Goal: Description of a web project, and static implementation of the user interface. You have to build the homepage of an online book store by using nested framed pages. You also have to create an HTML form for creating a new customer account and another for logging in. Finally, you must create scripts using JavaScript for input data validation.

Mark: 25% of the project's total mark

The Project: Short Description

Over the course of 4 assignments, you will use the main technologies learnt in the course to implement a small system for processing book orders. Let us call the system AmazonLite. AmazonLite incorporates the following groups of functionalities:

- a. Search: offers book search functions such as a quick search and category search.
- b. Access control: Offers user login functions such as account creation and login validation.
- c. Shopping cart: Offers sessions and cart functions.
- d. Checkout: Offers checkout functions needed when books have been bought.

Assume the following database tables at the back-end of AmazonLite:

Bookstore: Stores book information

Order: Stores order information

Customer: Stores customer's information

The following schemas are suggested for the tables above:

Bookstore	Attributes	Description
	ISBN	ISBN code of the book
	Title	Title of the book
	Author	Name of the book's author
	Publisher	Name of publisher
	Year	Year of publication
	Price	Book price

Category	Category of the book
Description	Description of the book
Quantity	Quantity in stock

Order	Attributes	Description
	Customer	Customer name
	ISBM	ISBN of the book
	DeliveryQty	Number of book copies delivered to the customer
	SubscribeQty	Number of book copies ordered by the customer

Customer	Attributes	Description
	CustID	Customer ID
	Password	Password of the customer
	Email	Email of the customer
	Gender	Customer gender
	Fname	First name of the customer
	Lname	Last name of the customer
	CreditCard	Customer credit card number
	ExpiryDate	Expiry date of credit card
	Address	Customer address

To do in this assignment

1. Detailed Project Description: Give the description provided above, you now need to provide a detailed description, including:

- An overall description of the software for AmazonLite, its goal, its intended users, its scopes, its limitations etc.
- A description of the user interface, its architecture, its logic etc. In particular, AmazonLite must use at least three nested frames for displaying a company banner, a navigation menu, and a content space.
- A description of the functionalities that will be implemented client side, and a description of the functionalities that will be implemented server side
- A description of how you will be able to enhance the user interface into a dynamic client.

2. Static HTML Implementation: You will need to provide a static HTML implementation of most of the pages of your application **using the XHTML 1.0 strict format**. In doing so, you must separate content from presentation using cascading style sheets (CSS 2.1). Design your interface with great care, it must be easy to use, and look reasonably professional, using a large array of the elements we have covered in class. It **must** successfully pass the XHTML and CSS validators. Any exception should be reported and convincingly explained. The more HTML and CSS features the better! However, do not overspend time here!

Deliverables

You must provide a printed version of your document, and an electronic version of the html pages.

Check your documents for spelling and grammatical mistakes. Poorly written projects will receive poor mark.

This and the following assignments can be done in groups of 2. The work should be divided equally; all members of the team will receive the same mark. Keep the same team until the end of the course.

Assignments will be ranked before marking. The best assignment that does everything that is required receives 100% of the marks and the worst, but still functional, assignment receives 70%. All the other assignments in between receive a mark in increments.

Note that, at the end of the course, the overall best project receives the price of a textbook (different than the textbook for CSI3140/CSI3540) on web programming.