Presentation Topics

Presentations are to demonstrate use of the technology, with an example in class. Start with an example and extend

in the demonstration in front of the class. Additional background information may be provided in a handout for the class. Must cite all references.

1. PHP

• Form processing

• PHP scripting

• page templates

• authentication

• session management

2. HTML5

• Cover HTML page structure

• Page elements vs meta elements

• lists, tables, links/anchors - internal/external

• images, client-side image maps

• forms

• embedding audio, video, pdf

• HTML validation

3. CSS3

• style declarations

• selectors: id, attribute, type, class, etc

• inheritance and cascading, conflicting rules

• styling tables

• box model

• styling buttons

• CSS validation

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. HTML5 DOM API/Dynamic UI with

JavaScript

• Document Object Model

• Nodes

• event objects

• events

• event listeners

• testing and debugging JavaScript

5. Database

• MySQL

• PHP database access

6. XML

• DTD

• XSL transform

• XSL template

• XPATH

• XML Database

• XML validation

7. AJAX/Web Services

• implement with XML

• implement with PHP

• Google Map API

• PayPal Web Services

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. Mobile Web

• designing for mobile browsers

• mobile APIs

• responsive web/grid frameworks (Bootstrap, Foundation

)

Project

Build an eCommerce site with a shopping cart. You m

ay not use any

third-party shopping carts, but you will use a thir

d-party payment

processor. This means you will build the components

and structure for

maintaining a cart of items.

Elements to include:

• Admin

◦ Admin login

◦ Inventory management

▪ Add/remove item information and quantity

▪ Upload images, related assets

▪ Inventory report, sales report

• Customer

◦ Customer registration/login

◦ Search for items

◦ Browse by category

◦ View item detail, add to cart

◦ View cart

◦ Checkout

◦ Order Confirmation, on-screen and email