ITMD 462/562
Web Site Application Development

Lecture 11

Fall 2015 – November 11, 2015

Tonight's Agenda

- Adapt Song List Demo to MySQL Database

- CMS & Frameworks Introduction

CMS vs Frameworks

- Content Management Systems (CMS)

- Wordpress

- Drupal

- Joomla

- And many more...

- https://en.wikipedia.org/wiki/List_of_content_management_systems

- App Framework

- CakePHP

- Zend Framework

- Symfony

- CodeIgniter

- And many more...

- https://en.wikipedia.org/wiki/Comparison_of_web_application_frameworks

Content Management System

- Built in many languages but PHP is very popular with the major CMS systems

- Wordpress is the most popular CMS

- Mainly used to manage the content of a web site.

- Composed of back-end plugins and components to add features

- Can be customized with additional plugins

- Theme is developed in HTML, CSS, JavaScript to visually style the site.

- Allows non-developers to manage the front-end content in a site

- https://en.wikipedia.org/wiki/Content_management_system

Frameworks

- Frameworks provide you with ready made classes that handle many of the advanced features a web application may need

- Including
  - Authentication
  - DB Access
  - Templating
  - Services
  - MVC Structure

- have to use them and build your site/app yourself

- https://en.wikipedia.org/wiki/Web_application_framework

MVC

- Many frameworks are based on the Model-View-Controller pattern

- A pattern to separate the data model, business logic, and UI

- Model – Data Model, custom classes representing data objects

- Controller – Business Logic, the logic that controls your application

- View – Templating and UI generation

- Modularizes your code, promotes code reuse

- Allows the logic to serve to different views – Web pages, Web services

MVC

- Originally developed for the Smalltalk language in the 70s

- Later in the 80s became a general concept and pattern

- Became popular with the Spring Framework, Ruby on Rails, and Django

- As of now most web app frameworks are somehow based on MVC

- https://en.wikipedia.org/wiki/Model%E2%80%93view%E2%80%93controller

Frameworks

- http://www.sitepoint.com/best-php-framework-2015-sitepoint-survey-results/

Assignments

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- Talk about what to expect in a final project

- I will assign a quiz later this week for shure.