ITMD 462/562

Final Project

Introduction

The final project will require you to build a CRUD application and probably go out and research some things on your own to get it working correctly. The assignment is due Saturday, December 5, 2015 at 11:59pm Chicago time. You will need to make sure you have access to a computer hosting a web server capable of running PHP. A local development environment running XAMPP, WAMP, MAMP, or the local built-in PHP server as described and demonstrated in class is needed. Read this document completely and any graduate students must complete the additional graduate student requirements listed within.

Objective

To create a CRUD application that is more feature rich than assignment 3 or is built using the symfony PHP framework.

Requirements

- Build a CRUD application using one of these 3 options
- Build the application using pure PHP without a framework
    - Build a new CRUD application that is different than the notes application
    - Must have two data models represented with full CRUD capabilities
    - Must use object based data models
    - Must have user authentication. Can be in database or hard coded as demoed in class
    - Use PDO SQLite for data persistence
    - Can not be based on the Note application used for AS2 & AS3
- Build the application using the symfony PHP framework
    - This is an opportunity for you to learn the symfony framework on your own
    - Must have two controllers minimum
        - One for full CRUD operations on a data model object at least
        - One for other Static pages (at least one static page in your application)
    - Must use object based data model
    - Must have user authentication. Use the symfony security framework. Can be any of the options in there like in memory provider, basic auth, security annotations
    - Use PDO SQLite for data persistence
    - Can use your note application as the basis for this application
- Build the application using a different PHP framework (must tell me first and be approved)

o   If you do not use SQLite and use MySQL you must provide full scripts to configure the database in my test environment. I will not build out all your tables in my test. You need to provide MySQL dumps.
o   If you want to host this on your own server to avoid the database config issue that is fine but you MUST also submit your source to blackboard.
o   Same requirements as above in general.

Graduate Additional Requirements

If you are involved in **any section of 562** you need to complete the additional requirements listed here.

- Must properly use name spacing in your code
- Must style your application with some basic CSS
- Overall project quality and functionality will be a much larger component of the grade
- I will be looking for a much more complete project

README File

Produce a **PDF README** file in your project zip that describes some components of this assignment. The readme doesn't have to be long but should include a few things. If you have any problems or challenges that you couldn't complete you need to make sure you write all about it and what you tried. Any code failures in your project should be made up for in documentation.

- Your Name
- Your Email
- The Class and Assignment Numbers
- The following sections
    o   **Project Description** – Brief introduction describing the project in your own words.
    o   **Development Environment** – Description of your development environment. Include things like computer OS, what you are using for your server stack, PHP version number, editors used, and any other details you think you should include about your environment
    o   **Installation Instructions** – Include any instructions to us if we need them to install or configure your project.
    o   **Insights and Results** – Include here things you learned, challenges or problems you faced, and any details about the results you received. If you couldn't get something working this would be the place to describe what you tried and what wouldn't work. Feel free to embed screenshots for working and non-working features.
    o   **References** – Any resources you need to cite of that you might have used for assistance. Not an excuse to copy and paste but if you need to cite a source, do it here.

Due Date / Late Policy

This assignment is due **Saturday December 5, 2015 11:59 PM Chicago Time**. There will be no projects accepted after this deadline. Any project that comes in at all late will receive a zero. **NO EXTENSIONS or NO EXCEPTIONS PERIOD.**

Submission Guidelines

You must upload your submission, including source and all supporting files, as a zip archive to the blackboard assignment by the due date. The submission must be in the following format and structure. If you do not submit your assignment exactly as specified, you will receive a immediate 5% deduction.

Submission Format Specification:

YourUsername_YourIdA#_final.zip
|----------PROJECT FOLDER with any subfolders needed. If using symfony this would be the
|--------------------symfony project directory. If not a source folder with all your documents.
|
|----------README.pdf *(describes your submission per above)*