INFOST 691
Advanced Web Development Using Application Frameworks
Instructions for the Final Project

General Description

You will be expected to plan, gather requirements for, design, code, test, and deploy a Web application using Django as your Final Project. Expectations include:

- The Web application should fully demonstrate the Django application framework features covered in the class. These include:
    - Django models
    - Django URL configurations
    - Django views (including class-based views and generic class-based views)
    - Django templates
- The Web application should include significant database add/change/delete functionality.
- The Web application should implement basic user authentication.
- The Web application should be sufficiently interesting to you that you are likely to continue to develop and maintain it after the course is complete.

More details regarding project expectations are presented below.

Project Size

The size of the project should be comparable to the size of examples covered during the course. These include:

- The full Django Girls Tutorial including the extensions
- The tutorial example from the Pinkham text
- The EZ University tutorial project

Nature of the Application

Provided that you meet the other expectations for the project, you have fairly wide latitude regarding the nature of the application. Two obvious choices are a blog (like the Django Girls or the Pinkham tutorial examples) or a database maintenance application (like the EZ University tutorial example).

Design and Coding

The design and coding of your project should be consistent with the standards and practices presented in the Pinkham text and demonstrated in the EZ University tutorial example.

Testing

Your application should be fully tested when submitted. Since we did not cover automated testing methods in the course, you will not be expected to have used automated testing tools. Testing by exercising the application and inspecting output is sufficient. When you submit your application, please include sufficient test data, passwords, and instructions to enable the instructor to test your application.

Submission

In order to avoid conflict between the Final Project and the series of coding assignments that you have been deploying to PythonAnywhere, you will NOT be expected to deploy your project when submitting it. Instead, zip up your PyCharm project directory and submit that zip file to the D2L dropbox provided for this assignment.

When submitting your project files, please use the following naming conventions:

- Name your PyCharm project directory as follows:

    YourLastName_YourFirstName_WhateverYouCallYourProject

- Consequently, the zip file that you submit will have the following name structure:

    YourLastName_YourFirstName_WhateverYouCallYourProject.zip

Please do not include your virtual environment in the zip file that you submit. It will make your zip file too big for submission. PyCharm Django projects are configured to point to their virtual environment. I will provide a virtual environment for testing and I will reconfigure your project to use my virtual environment. In the event that your code needs a virtual environment significantly different from the one that we used for the EZ University tutorial example, please include details when you submit your project.

Please note that I do expect you to want to deploy your Final Project to PythonAnywhere eventually. I only ask that you wait long enough to allow me to finish grading your coding assignments before you deploy.

Submission Deadline

The submission deadline and dropbox to which the assignment should be submitted will be indicated in the Weekly Schedule.

Grading

A separate grading rubric document will be posted to the Weekly Schedule.