CIS 435/525 Project 4

Prof. John P. Baugh – University of Michigan – Dearborn
Fall 2018

Points: _____ / 200 pts

Due: **December 7, 2018 at 11:59 p.m.**

Instructions/Objectives

You may work by yourself, or in a small group (of up to 4 people.) It is okay for DLN and in-person (face-to-face) students to be in a group together. Your project is largely open-ended, but should be substantial, creative, and somewhat interesting and/or useful. It should not be just a tiny little adjustment of a previous project.

Note that I personally own hundreds of programming / web development books, both digital and paper. I say this because I am aware of dozens upon dozens of different projects and their solutions so don't just steal another book's solution or something and pretend it's your own. I don't mind you being inspired by another book or its projects, but **cite your sources**. Plagiarism and cheating are bad!

Ultimately, there will be the following deliverables for individuals and/or groups:

- The zipped source code and SQL dump of your project
    - Including all HTML, CSS, JavaScript, PHP, MySQL dump, etc.

- A report containing
    - Group member (or individual) names, and their primary roles/responsibilities for the project
    - Information on your design considerations
    - User Interface design (mockup of the interface, or other prototype)
    - System components and functions
        - **Undergraduates (CIS 435):** At least one of the following: UML activity diagrams, sequence diagrams, or other appropriate UML.
        - **Graduates (CIS 525):** At least two of the following: UML activity diagrams, sequence diagrams, or other appropriate UML.
    - A summary/conclusion, including what you learned
    - **Undergraduates (CIS 435) :** Report must be of 4 – 6 pages
    - **Graduates (CIS 525):** Report must be 5 - 8 pages

- A tutorial with screenshots of the Web application being used
    - This tutorial should be at least 4 pages long
    - Usage scenarios should be documented thoroughly with screenshots/images to help understand how to use your application

Ideas/Examples

Previous students in CIS 435 have created interesting projects, including the following:

- Music sharing community
- Park review website
- Japanese character writing practice application
- Garage sale finder
- Restaurant order management system
- Online ticket ordering system
- Virtual lost and found board
- Snap and share (picture sharing)
- Online movie rental application
- Cartesian mapping tool
- Online game arcade
- Solitaire
- Web-based programming contest control system
- Online book store
- Content aware chat application
- Bookmarker
- Electronic flash cards
- Real estate application
- Playlist / YouTube hybrid

You may pick and provide a variation on any of these, or come up with something on your own/with your group.

Grading Criteria

- Originality
- Quality of report
- Quality of system implementation
- Demonstration of ability to use a variety of Web-based technologies

Deliverables

You must turn in a zip file of your project, including HTML, CSS, JavaScript, PHP, MySQL dump, as well as your report and any other required documentation mentioned in the instructions above. If you work in a team, **only ONE member of the team must turn in the zip file**, but the NAMES of the individuals on the team should be clear in the report and the comments when turning in the assignment.

IF YOU USED your own hosting service or Amazon AWS: You must also provide a link to where the project is published, whether your own hosting service, Amazon AWS, another cloud platform, or some other platform. **You are responsible for any/all charges that could occur. You will not be reimbursed by the CIS department, instructor, University, or magic money faeries.**