CSIS 3280 Final Project

> Each group memeber must contribute working code to your project. Group memebers
> found not contributing code will be given a zero mark. Projects that do not run
> after just the database will also be given a zero mark.

Project Requirements

The Group Project is a project that should cumulatively cover almost all the topics in the course, it is to model an application with a small real-world use case (think pizza shop, car dealership, library, student registration system etc..). The project will be a Web based PHP app and will connect to a database using PDO integrate with a web service. You must have three people in your project.

Assignment

Create a PHP application that leverages PDO via a local mysql database integrates with a web service.

Requirements

Data and Program Requirements:

- Three Entities with cardinal relationships (1:1, 1:N, M:N)
- Entities must be stored in a Database and accessed using: PDO locally
- The application must have multiple HTML forms.
- The application integrates with a web service.
- The application must support Create, Read, Update and Delete Items (Delete can leave a tombstone) using PDO. This must be implemented for each entity.
- The application must be able to search and lookup data.
- Statistics must be shown for at least one entity.
- All input must be validated the appropriate events handled, proper English must be used.

Project Artifacts and Requirements

1. Project Description (1 Page) - you must describe your project, the three entities. You should also include how you will involve a web service. Ensure you specify your group memebers and the entities they are responsible for.

2. Class Diagram

- Includes three entities
- Specifies PK and FK attributes
- Specifies cardinality.

3. Minutes for your meetings (a template will be provided), you must complete meeting minutes every time the group meets (both in and out of class), be sure to include who was present, you each team

member must answer the following questions in detail:

- Attendance (who is present for your meeting)
- What was done since the last time the group met (per person)?
- What is working well?
- What is not working well?
- What will be done before the next time the team meets?

4. User Manual (1 page)

- Must be as concise as possible, must include visuals wherever applicable.
- Must cover all the actions a user can perform (CRUD and Search etc...)
- If PowerPoint is used you can have up to 4 slides

5. References

You must provide references for any other materials that were used or consulted for your project

Submission

Your Team submission should include a folder with the naming convention TeamName. You should have one controller file called "TeamName.php". You must provide the appropriate SQL for your project in the data/ directory with the filenames .sql. Your program structure should be similar to the kinds of programs we have been doing in class using MVC where applicable.

Grading

The assignment will be graded on a scale of 25 points.

Criteria	Grading
Project submitted and named properly with all assets to Blackboard by Team Leader, file is named according to the naming convention.	1 points
Project Proposal, Class Diagram, Meeting Minutes, installation manual all completed with relevant details	3 points
User Manual – Concise, to the point, graphical, labeled properly, Class Diagram accurate including all properties and cardinality.	3 points
Statistics are coded using SQL queries and displayed, PDO used and errors are captured and logged. The user must be given positive confirmation of a CRUD operation.	3 points
All input validated according to the expected input, the user must be prompted for corrections and stack traces must be logged to a file.	3 points
HTML Forms coded properly (framework can be used) layout is efficient and easy to use and controls are intuitive and easy to use.	3 points
Good program structure is used, all functions are commented, and comments are used where applicable. Naming conventions are followed.	5 points
Web Service integrated with error handling	3 points

Helpful Hints

- Be sure to have a consensus among the team with regards to your data types and formatting.
- When you test take the perspective of a user using your application
- Be sure that your tests cover all the CRUD operations.
- Run your project on a douglas college lab computer where it has not been run on prior to submission.
- Do not wait till the last minute to put together your submission, if your project artefacts are missing you will receive zero for them.

Your group project must be able to run on a lab computer, your project should only require the loading of your database and the aliasing of your web application folder.