CS 445
Design Documents and Presentation

25 total points

For this assignment you need to design and implement your own database. You will need to populate the database with data as well as build a user friendly web front end using PHP.

The database must have a minimum of 15 tables and must contain some binary data (image, sound, etc.). The web front-end must have a searchable text field, at least 3 predefined queries (click this button and see all products in the web store), and at least 2 free form queries (make some choices from a drop down box or put data into a text field and then hit a button to search).

The web front end needs to have the ability for users to be authenticated via some login mechanism and provide at least one web page for database administration (insert/delete/update data).

Your web front-end must be secure and cleanse any input from the user before using that input in a query.

5 points DB Topic

Database Topic Due Oct 10 Monday! (1:00pm)

Text (full English sentences) explaining the topic, goals, and users of the database (1 page at most)
 List of data (nouns) you will store.
 Three queries that your users will want to answer .

Submit electronically (GoogleDoc) CS445_DBTopic_PUNetID share with profchadd@gmail.com

If I have any concerns, I'll ask you to schedule an appointment with me

10 points Design Documents Due Oct 14

     E-R Diagram (Visio)

     Mock-ups of **two** web pages
          At least one of the web pages must contain a free-form query interface.
          Visio: download the website GUI objects from here:
               http://www.guuui.com/issues/02_07.php
               Unzip the file
               Double click on the GUUUI Web Prototyping Template 3
               You will have Web GUI icons on the left.

     Save As a Visio document AND as an image (JPEG, etc) so you can display it in class.

10 points Design Presentation Oct 14
(8-9 minutes)

Who are your users?

What problem are you trying to solve for them?

Walk us through the ER diagram: nouns, relationships, constraints.

Walk us through each of the web pages, how they interact with the db, queries, etc.

This needs to be a **professional, practiced presentation**. You are free to use PowerPoint or just images of the above. All of your presentation materials must be on Turing and ready to go before class. Also, submit all of your materials to the CS445Drop box before 1:00pm! Each filename must contain your PUNetID!

Be prepared to ask and answer questions.

Why will you .....

Will your users be able to ....

How will .....

Order of presentations will be randomly selected before class but volunteers are welcome.

You must ask at least one question.

If you like, I'll review your E-R diagram/mock up before your presentation.