You must work in your assigned team for this project.

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 5 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.

You must use version control, either GitHub or GitLab. **CS445f19_Group#**

Schedule

Database Topics are due: Oct 22   (5 points)

Design Docs are due: Oct 29   (20 points)
        ER Diagram
        Web page mockup

Design Presentations – Nov 5   (5 points)

MySQL Create statements – Nov 12 (15 points)

MySQL Insert/Query statements – Nov 19 (15 points)

Web Interface Due – Nov 26   (15 points)
Final Presentations - Nov 26   (5 points)

This is a skeleton of a schedule. To work effectively you should be meeting with the instructor ahead of the deadlines to ensure you are on the right track and so that you can start working on the next portion of the assignment **as soon as possible**.

At the end of the semester you will have an opportunity to provide feedback to your teammates and feedback about your teammates to the instructor. The latter will be confidential and used to assign individual grades.

Design Documents and Presentation

25 total points

Database Topic Due Oct 22! (2:45pm)

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 .

1 hard copy due at class time.

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

Design Documents Due Oct 29

> E-R Diagram

> Mock-ups of **three** web pages

Design Presentation Nov 5
> (6 minutes)

> This needs to be a **professional, practiced presentation**. All of your presentation materials
must be on ready to go before class.

> Each member must speak for 2 consecutive minutes. The topics that must be discussed are:

> 1. Brief overview of your project, what is the problem you are trying to solve.
> 2. Who are your users?
> 3. Go through the ER diagram so we understand how you will store your data
> 4. Walk through each of your Web page mockups to explain how users will access your data.

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