CS 315 Modern Database Management
Final Project Technical Requirements
Northeastern Illinois University

Technical Requirements

1-Server-Side Implementation:

Database Implementation:

Implement the approved design for your application.

Keep a copy of your SQL code in a separate file for submission.

Connect to your Database from a PHP Program:

Create a PHP Program to connect to your database.

Your program should have the following requirements:

1. Your program must perform CRUD operations (Create, Read, Update, Delete).
2. Your application must implement at least 2 SQL aggregate functions. For example, in an office supplies store application, users should be able to see the sum of product sales, or number each item sold.
3. Your application must use at least 2 SQL queries with joins.
4. Your application must have at least 2 different user roles. These user roles will have different accessibility to tables. For example, an application can have admin and customer roles where the admin can add/modify/remove products and customer can only view/purchase products.
5. User authentication: Users/members can use their login credentials stored in the database to access restricted pages.
6. A database search feature: Users can look up a product/item/service by typing the item's name into a textbox. For example, looking up a book in a library website.

2- Client-Side Implementation

You can use a platform of your choosing to create client-side of your application. Some example platforms are

- HTML5
- Android
- IOS
- Java

The server-side of your application must be minimally coupled with the client-side. They should communicate using a lightweight data-interchange format such as JSON or XML.

3- Hosting Your Application

You can host your application locally (your PC) or you can also use a cloud service of your choosing.