

Project 3 Milestone

Database Design

CSCI 3308 - Software Development Methods and Tools

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1) The DBMS we have selected is that of **mySQL**

2) For our database, it is important to ensure that our users have an easy time accessing the website's contents. First of all, we want to implement a database with usernames and passwords. Therefore, a user can create his or her own account. We will store this information by assigning a unique user ID and password, which the user can create. Secondly, we want users to be able to find contents that are of use to them. We will organize files and contents by a student's university, followed by their respective course, year of that course, and a student's respective section. These identifiers will make it easier for a user to find a particular document and or file. Within the website itself, we will store a user's vital account information, including their first name, last name, unique username, email address, a photo location (acts as a visual identifier), and a user ID. When a file is uploaded, the file will be stored within the database by its location, filename, user ID (who uploaded the file), date it was uploaded, and a unique file ID. Another variation of this would be that the user may also specify the course name, as well as the instructor's first and last names. This would be an alternative method by which to upload and store a file. It would also make it easier for a student to find files that are of interest to them.

3) The links to our SQL scripts to create and populate our database are shown below:

https://github.com/Joshua-Ramos/groupProject/blob/master/Database_Code.sql

<https://github.com/Joshua-Ramos/groupProject/blob/master/Populate.sql>

4) Our Database Design Diagram is shown below:

