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**Landing, Login, and Enrollment Pages Development**

**CST499: Capstone for Computer Software Technology**

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**11/24/24**

**Explain how to run a PHP file in XAMPP.**

Xampp is a free, open-source web server solution that is used for multiple different applications. Web application testing, PHP development, database management and building websites and apps to name a few. Running Xampp is very easy to do, after downloading the software from Apache’s website you will run the download on to your computer. After download is complete the main box will open for you to start structuring your services. By selecting Apache and MySQL to the on position you are now able to create a local host database.

From there you can get started, if you need to create a database to start out you will simply open your web browser and in the address bar you will type localhost/dashboard, which will take you to the main phpMyAdmin page. From there you can select phpMyAdmin at the top of the screen where it will open your local database creation page. All databases you create will be displayed here. After creating your very own database you can use any software of your liking to create your code, I am currently using visual studios, it is very easy to maneuver and is free to use.

Once you have your code developed and want to test it out you will save your files to where the files for xampp have been saved, normally that is your C drive. Locate your C drive while saving the file, then click Xampp, then find the file that says htdocs. Save the file under the folder htdocs, once you have it saved you can go back to your web browser and type localhost/name of file, once that is typed in the address bar your file will be executed, and your code will run.

**Discuss the MySQL database functions that you used and the steps you took to create the database connection custom class.**

For the database I created 7 rows for collecting information along with an ID slot, depending on the value being entered in for the specific line I used either int or varchar. Making the connection to my database was quite easy. I simply created a separate file for executing the connection to the database whenever the system needed to add information, delete information, or compare information being typed. The lines of code for establishing the connection look like this:

$dbhost = "localhost";

$dbuser = "root";

$db = "student";

$conn = new mysqli($dbhost,$dbuser,"",$db) or die ("connection failed".$conn->error);

return $conn;

Once I had my connection file created, whenever I needed to access the database whether it was to compare information when a student was logging in or when a new student was registering, I added a simple “require\_once “database\_connection.php””. What this line does is stating that the system needs to refer to the file database\_connection.php just that one time in order to continue the task, that file is where my connection to the database is stored.

**Explain the steps taken to create the registration page and save the user information in the database.**

The registration page consists of nothing big, all of the code written is all PHP with no html. I start off with giving the file a simple doctype and <head>, Once completed my <body> consists of PHP code that creates 7 input boxes with statements next to each box, statements like “enter your first name”, “Enter your address”, personal information for a new student to register and create their account. Once this is finished there is a submit button below all input boxes.

Once the student selects submit, the system jumps to the next portion of code, which tells the system to store all information submitted into the corresponding line in the database. First name would go into fname, address would go into address, email and social would go into the corresponding line as well. Once everything was submitted a message would be displayed at the bottom of everything stating that all information was submitted correctly, or that there was an error.

Once this is completed the student can select login and place their login information into the two lines of input, email and password is what I used for the login. Once the user clicks submit after typing their email and password the login document will take the email of the user and match it with the email in the database, if there is an email in the database that matches the one entered then the system will pull that password entered in for the student, if both passwords match then the student will be logged in and taken to their dashboard.

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