**Landing, Login, and Enrollment Pages**

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CST499: Capstone

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6/16/2025

**Screenshots**

A screen shot of a computer

AI-generated content may be incorrect.A screenshot of a computer

AI-generated content may be incorrect.A screen shot of a computer

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AI-generated content may be incorrect.

A screen shot of a computer program

AI-generated content may be incorrect.

A computer screen shot of a black background

AI-generated content may be incorrect.

A computer screen shot of a black screen

AI-generated content may be incorrect.

A screen shot of a computer program

AI-generated content may be incorrect.

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A black rectangular object with white border

AI-generated content may be incorrect.

A screen shot of a computer

AI-generated content may be incorrect.

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

To run a PHP file in XAMPP, you first need to create an index.php file within the htdocs folder of the xampp source directory. Once this has been created, you start the Apache server from within the XAMPP control panel and browse to the web server on ports 80 or 443 (depending on if you’re using HTTP or HTTPS). This will cause the php to run on the server. This results in the php and the contained HTML data being presented to you.

**Discuss the MySQL database functions and steps to create the database connection class**

First, I created the student\_portal database itself. Then, I created a tbluser table. Within this table I added 6 columns. The first is an autoincrementing student\_id field of type int with a 5-character limit. This is the primary key. The next is an email field, that is unique and doesn’t allow duplicate emails. Third is the password field. Fourth is the first name field. Fifth is the last name field. The final field is for phone numbers and it is limited to 12 characters.

The database connection module is a php file that gets called in pages that require database connectivity. It is a generic module that has a database factory for generating connections and handling connections. Within it, there is a function for creating users, logging in users, checking email validity, and getting the user first name.

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

The registration page calls to include the DatabaseHandler.php file. This file is used for both connecting to the database, creating the user, and validating that the user doesn’t exist. If the user email already does exist, it returns an error that the email is already registered. If it doesn’t then it creates the user and creates a toast message that the user was created. If it fails, it generates an error message. The body of the page includes the generic master and the footer files. It has several required fields for the data that must be passed into the database for registration, and a button that creates the account. Once the submit button is hit and a post request is generated, it pulls the data from the fields and assigns them to variables that it then passes into the createUser() function of DatabaseHandler. First though, it checks to ensure the user doesn’t exist. It only passes the data to createUser() if $checkEmail > 0.

Resources

Praphamontripong, U. (n.d.). CS4750 - Database Systems. https://www.cs.virginia.edu/~up3f/cs4750/supplement/DB-setup-xampp.html

Tsui, F., Karam, O., & Bernal, B. (2018). [*Essentials of software engineering*](https://uagc.instructure.com/courses/146699/modules/items/7476078) (4th ed.). Jones & Bartlett Learning.