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

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In this assignment, I focused on the implementation phase of the School Enrollment System, leveraging skills and resources from CST310 and newly learned concepts. The goal was to develop a dynamic website connected to a MySQL database, with functional landing, login, and registration pages. Using XAMPP, PHP, Bootstrap, and MySQL, I successfully created these components while adhering to best practices in software engineering and web development..

**Landing Page, Login Page, and Registration Page Development**

1. **Landing Page:** Users can access the login or registration pages through the landing page, which acts as the system's entrance point. It has obvious call-to-action buttons and a responsive design thanks to Bootstrap.
2. **Login Page:** Users can authenticate by providing their password and email address on the login page. It securely sends data for verification and verifies inputs.
3. **Registration Page:** User data, including email address, password, first and last names, is gathered on the signup page. It has a simple design and securely processes user input using PHP.

I created a database called enrollment\_system using phpMyAdmin before establishing the database and table. I created the tblUser table, which was intended to safely store user information, by running a SQL script once the database was configured.

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I handled database interactions safely and avoided SQL injection by using a prepared statement. The following custom class (db.php) was in charge of managing the database connection..

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This class established a persistent connection between the PHP application and the database, enabling smooth data operations.

HTML and Bootstrap were used in the development of the registration page layout. It has a submit button and form fields for user input. Data entry into the database is managed by the PHP backend.

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This strategy adheres to best practices and guarantees that the e-commerce solution satisfies the demands of the business and users by striking a balance between these elicitation approaches and requirements dimensions.

I started by setting up the database by making the tblUser table and the enrollment\_system database in order to hold user information. I then included form input validation to the registration form to make sure the user has correctly filled out all the relevant fields. I utilized prepared statements to safely enter user data into the database, guarding against SQL injection, and the password\_hash function to encrypt passwords in order to handle the data securely. Lastly, I made new user accounts and confirmed that the information was accurately entered into the database in order to test the registration form. The user registration system's operation and security were guaranteed by this procedure.

**Landing Page:** Displays the welcome message and navigation buttons.

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**Login Page**: Features a login form with email and password fields

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**Registration Page**: Shows the input form for collecting user information.

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**Database in phpMyAdmin:** Includes the tblUser table structure and sample data.

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**Source Code**

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**References**

Tsui, F., Karam, O., & Bernal, B. (2018). [*Essentials of software engineering*](https://uagc.instructure.com/courses/139106/modules/items/7086725) (4th ed.). Jones & Bartlett Learning.