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

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Website development is a process that can be accomplished using a variety of tools such as Xampp, PHP, and Mysql. Each one of these tools serves a different purpose in the development of this project. For this project, a landing page, a login page, and a registration page were developed using the different tools mentioned above interchangeably. There are different steps that were taken to complete this project with the help of Visual Studio code, which is a code editor, and Bootstrap for the development framework. There was also assistance from previous projects that helped as a guide to complete this one.

The first step taken to develop this project was to set up Xampp on the computer being used. Xampp is a web cross-platform that allows users to develop websites using different tools in connection through a port and files. Among the tool connections that are facilitated, it includes Apache, Mysql. PHP, and Perl. Once Xmapp is set up and installed, the next step is to locate the Xmapp file and create a new folder under htdocs which would become the new project. Once the folder is created the next step is to load the folder into Visual Studio which is the PHP code editor being used, and create a new file to begin coding in it which would be the beginning of the registration page. Following these steps, a file can be run using Xampp.

The next tool that was used for the development of this project was Mysql which is an amazing tool for database creation and management. Mysql is the most popular open-source database management system. In order for the registration and log-in page to function properly there has to be a database created, which is where Mysql comes in. The next step would be to access Mysql by going localhost/phpMyAdmin, from there we click on new to create a new database which is where a name is given to the database. For the database creation, we add the amount of columns needed for the registration. Each column is then configured with the type and length. The database table is then saved. Once the database table has been saved, a new file is now created in the same folder that was pulled using Visual Studio different from the registration page. This file is now used to code in the database where different variables are created from hostname to the connection variable using the mysqli\_connect function which is then added to the registration php file. Once the database is coded in the database file, it is then added to the registration code by using the variable with the mysqli\_connect function which then creates the connection between the registration page and the database.

The registration page was the first part of the project that I started with. To begin the registration page Visual Studio provides a html5 code shortcut or boiler code already included which is the newest version of html. The title was then added to the form which was then added to a div container class to separate the different elements that needed to be added. The class form-group was then used to customize the page layout using Bootstrap CDN. To save the user information to the database there has to be a connection between the database and the file. To start the connection the function mysqli\_stmt\_init was used to initialize the statement object where the connection variable could added. Several variables were created to ensure the return information would be successful. Visiting some of the previous projects assisted with many of the aspects of this project including some of the functions and parts of the code that needed to be created.

References:

*CSC309: Programming on the Web, Winter 2016*. (n.d.). https://www.cs.toronto.edu/~mashiyat/csc309/index.htm

*Modern PHP - Google Books*. (n.d.). https://www.google.com/books/edition/Modern\_PHP/03SpBgAAQBAJ?hl=en&gbpv=1&dq=log+in+php&pg=PR2&printsec=frontcover

*PHP and MySQL Web Development, Second Edition - Google Books*. (n.d.). https://www.google.com/books/edition/PHP\_and\_MySQL\_Web\_Development/G4dTRyvpfhoC?hl=en&gbpv=1&dq=php+mysql&pg=PA1&printsec=frontcover

*Programming in HTML and PHP*. (n.d.). SpringerLink. <https://link.springer.com/book/10.1007/978-3-319-56973-4>

Screenshots:

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