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CIS 344

Final Project Report

This final project regarding the *pharmacy_portal_db* was challenging yet enticing as it allowed me to further understand the in-depth structure and relationship that is found within a database through MySQL and a website through PHP and HTML visual studio code. This project was enticing as it allowed me to fully develop a database through MySQL, phpMyAdmin. While I was initially discouraged from fully exploring phpMyAdmin due to my experience in the first project having difficulty adding data to my tables, I was able to overcome this issue this time around and create all required tables. Beginning with my 'User table', I initially had the same issue adding the table through the *Structure* section of the localhost. After our lectures and more practice within uCertify, I felt confident enough to add all tables through the *SQL* section instead. After all, if I got an error message such as "LOCALHOST SAYS: Please enter a valid length!" or "#1064 - You have an error in your SQL syntax;" I would be able to manually edit it myself rather than stress on erasing and resetting the database and the Apache web server.

Upon the successful creation of my 'User' table I was able to modify and reuse the input to continue to create my other required tables consisting of 'Medications', 'Prescription', 'Sales' and 'Inventory'. Additionally, I was also able to properly modify and execute required fields for the tables consisting of primary keys, foreign keys and evens view fields. I was able to populate three entries in the tables and confirm these entries via phpMyAdmin. Overall, my knowledge and familiarity surrounding phpMyAdmin felt more established with room to grow. In my opinion I feel as if I was able to excel in the MySQL implementation section of the project. I was

able to successfully setup the database, I created the appropriate MySQL tables and relationships. Within phpMyAdmin I believe I was also able to successfully complete the *Stored Procedure, Views & Triggers*. My issues primarily rose through the *PHP implementation* section of the project.

Unfortunately, my issues within the *PHP implementation* of the project originated when I unfortunately had a space at the end of my directory name causing my Index page to load but my connections and references to be prone to some discrepancies. My attempt to connect the database to the my php/html front end user entries was thrown off due to the previously mentioned space at the end of the directory name, it took a lot of unnecessary time and digging but I was able to finally connect both components which is often why you will see phrases such as "echo: successfully connected/ connection" allowing me to visually stablish a connection upon visiting the browsers interface as I didn't have much info on display to show if I was connected or now. This portion was not difficult, but it did require attention to detail and multiple tests runs to ensure that home.php would successfully connect to PharmacyDatabase.php which is the database manager intended to connect to my database created through MySQL phpMyAdmin and also allows us to insert queries for sections such as the *New User* or *Add Medication* sections. Once a connection was established, I was also responsible for PharmacyServer.php was properly connected and functional. As I previously said, given some discrepancies regarding a space at the end of my directory name, I did initially experience a variety of errors that prevented me from continuing but with through research I was able to identify and eliminate the issue at hand. After some renaming, redirecting and retesting I was able to successfully connect my home.php file to properly reference and establish a connection within PharmacyDatabase.php and PharmacyServer.php, with this base completed I was able to

properly link viewPrescriptions.php as well as addPrescription.php to my home.php page while also successfully establishing *Back* buttons to successfully look my user web interface. Upon this structured establishment it is then that I realized I should also establish a connection to login.php in order to properly complete the structure flow of the project. I then further developed the login.php to prompt a verification system to verify who is login in in terms of patient or pharmacist. Using the post method and an already established connection to the database I was able to successfully link It to the initial home.php file allowing me to realize that home.php will be the main portal page but login.php should be the entry point in order to establish some security through PharmacyDatabase.php.

Upon the establishment of the files and connections I also decided to create a log out page in case individuals wanted to sign in with different credentials prompting my exit.php file creation with the sole intent of redirection any logged in used in the home.php page to log out and be required to input proper credentials in order to successfully access the database. Once this limited secure login system was established, I drew focus to the '*adding medication*' section of the project. Through POST and ACTION implementation I was able to successfully connect it to the PharmacyDatabase.php in order to run, insert and select queries into the Medications table.

Areas of opportunity were primarily presented through the add PRESCRIPTION and add USER phases as I did find myself having issues with proper connection establishment within the add prescription section. Through the add user section I had successfully implemented it in one of my files and took a break but upon returning and continuing to work on it next day I experiences some internal errors and discrepancies that caused me to ultimately have some issues establishing and registering information onto the database.