Kyw356

Katelyn Watkins

CS4830

Journal 2 -Part 2 (exploration 3)

* Using MySQL
  + Use these two commands to get any updates
    - sudo apt-get update
    - sudo apt-get upgrade
  + Install MySQL
    - sudo apt-get install mysql-server
    - You may choose a password if you want
  + Login into MySQL using
    - mysql -u root -p
    - Then enter the password you set previously
  + After logging in, you are then able to create and manipulate db tables.
  + I created a DB called testDB1 and a table called testUser1 with userID, email, reason for contact, and message
* Some other resources that helped with inserting and troubleshooting:
  + <https://www.linode.com/docs/databases/mysql/install-mysql-on-ubuntu-14-04>
  + <https://www.tutorialrepublic.com/php-tutorial/php-mysql-insert-query.php>
  + <https://www.w3schools.com/sql/sql_autoincrement.asp>
  + <https://stackoverflow.com/questions/37367992/php-inserting-values-from-the-form-into-mysql>
* After setting up my tables, I then resumed to use php and html to make query statements. The most important part of a making a query state is to set up the connection first(Normally used is localhost and root). Then connect to the specific table.
* Why MySQL and Php?
  + I choose MySQL because I needed to utilize a relational database and MySQL is a great relational database. It’s easy to insert/remove data, and edit data as well.
  + I choose Php because it’s easy to use with HTML.
  + Both of these are great for people who are just getting into database work, and it’s learning curve is relatively low.
* Trouble bits:
  + My biggest trouble was that I didn’t have the right permissions to talk with my database. I then had to uninstall and reinstall MySQL and made sure that I had correct access to everything.

Part 2

* For exploration 3, I choose to explore more on MySQL and PhP.
  + I started by creating a new database called userDB that would connect to the previous database.
  + I used a foreign key userID that was the primary key in userTest1.
  + The purpose of this table was to hold username and password login info that would be one to one with the other database which allowed the user to send contact info with an email and message.
  + Once I got the database created, I begin to use PhP to create a valid login page with valid username and password.
  + With my single sql statement “SELECT userID FROM userDB WHERE usern = \_POST[‘username’] AND passw = $\_POST[‘password’]” I was able to grab users from my table and login.
  + I also worked with sessions, so I could keep track of the user. (Look at session.php).
  + After all that, I then decided a registration page was needed for new users, I used the mysql INSERT statement for the input.
  + Lastly, I put in logout functionality that redirects to the login page by:

<?php

session\_start();

if(session\_destroy()) {

header("Location: login.php");

}

?>

* For the future:
  + I want to implement salting and hashing