

Programming Assignment 3

Let's focus on the concept of user registration and database setup. Assume you are building a simple login registration system for a website, and you have decided to use MySQL as your database system. You have a database named "user_management" and a table named "users."

Here's a concrete specification:

Database Setup:

Database Name: user_management

Table Name: users

Table Structure:

- Column 1: user_id - INT, Primary Key, Auto-increment
- Column 2: username - VARCHAR(50), Unique
- Column 3: email - VARCHAR(255), Unique
- Column 4: password - VARCHAR(255)
- Column 5: created_at - TIMESTAMP, Default CURRENT_TIMESTAMP

Assume the database connection is established in your PHP code (You have to code it). Now, let's focus on user registration and session management.

User Registration:

- How will you implement the user registration process in PHP using the provided database and table structure?
- What steps will you take to validate and sanitize user input during registration?
- How will you handle cases where a username or email is already in use?
- Once a user is successfully registered, how will you store their information in the "users" table?
- How will you ensure the security of user passwords during registration?

Session Management:

- After a successful registration, how will you initiate a session for the newly registered user?
- What user data will you store in the session variables, and how will you use this data throughout the user's session?
- How will you handle session expiration and implement a secure logout functionality?
- What steps will you take to protect against session hijacking or fixation?

CRUD Operations:

What entities will your system manage, and what are the basic CRUD operations for these entities?

- How will you implement the functionality for users to view, edit, and delete their profiles?
- What security measures will you put in place to ensure that only authorized users can perform CRUD operations?
- Can you provide an example of how you would retrieve and display a list of user profiles from the "users" table?
- How will you handle user profile updates and deletions?

Submission Deadline: 2080/08/30

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