Training Day 16 Report

5 July 2025

The sixteenth day of Web Development training focused on implementing a user registration system with password encryption. We learned how to securely register users, hash passwords before storing them, and verify them during login.

1. User Registration System

Created a registration form that collects user information such as name, email, password, and graduation year.

Key Concepts:

Storing user data in the database

Preventing duplicate registrations using SELECT query

Using password_hash() to encrypt passwords before insertion

Example:

```
$hashed_password = password_hash($password, PASSWORD_DEFAULT);
```

2. Secure Password Handling

Used password_hash() to store encrypted passwords

Used password_verify() to compare login input with hashed password

Prevented plain-text password storage in the database

Login Example:

```
if (password_verify($input_password, $row['password'])) {
  // Login successful
}
```

3. Hands-on Practice

Created a registration form connected to the alumni database

Validated email uniqueness before registration

Stored hashed passwords

Tested login with encrypted password validation

Displayed success/error messages accordingly

4. Relevance to Project

User security is essential for the Alumni Management Portal. Secure password storage and verification help protect alumni data and login credentials from unauthorized access or potential data breaches.

5. Learning Outcomes

Learned to build a secure user registration system

Gained hands-on experience with password encryption in PHP

Understood how to prevent duplicate registrations

Strengthened login system with proper verification methods

By: Rida

URN: 2302647

CRN: 2315192

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