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Lab 9 - PHP Cookies Exercise Report

Overview

This lab exercise focused on implementing cookie functionality in a PHP web application. I enhanced an existing course registration system by adding "Remember Me" login functionality using PHP cookies.

What I Implemented

1. Remember Me Login Feature

- Added a checkbox "Remember me for 30 days" to the login form
- When checked, user credentials are stored in cookies for automatic login
- · Works for both students and lecturers

2. Auto-Login Functionality

- Users are automatically logged in when they return to the site
- System checks for remember me cookies on page load
- Redirects users to their dashboard if valid cookies exist

3. Cookie Security

- Used setcookie() with HTTPOnly flag for security
- Set proper expiration times (30 days)
- Secure cookie handling to prevent JavaScript access

4. Cookie Management

- Cookies are properly cleared when user logs out manually
- Multiple cookies store different user information (ID, name, type, password)

5. User Feedback

- Added visual indicators when auto-login occurs
- Green notification messages on dashboards for remembered users

Files Modified

index.php

- Added remember me checkbox to login form
- Implemented auto-login logic using cookies
- Pre-fills form fields with remembered credentials

logout.php

- Added code to clear all remember me cookies on logout
- Ensures clean logout experience

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dashboard.php & lecturer dashboard.php

- Added notifications to show when user was auto-logged in
- Visual feedback for cookie functionality

about.php

- Added documentation section for Lab 9 features
- Link to cookie demonstration page

cookie_demo.php (New File)

- Interactive page to view all current cookies
- Cookie testing and management interface
- Documentation of cookie functionality

Key Code Examples

Setting Cookies (Remember Me)

```
if ($remember_me) {
    $expire_time = time() + (30 * 24 * 60 * 60); // 30 days
    setcookie('remember_user_id', $user_id, $expire_time, '/', '', false, true);
    setcookie('remember_password', $password, $expire_time, '/', '', false, true);
    setcookie('remember_user_type', $user_type, $expire_time, '/', '', false,
true);
}
```

Reading Cookies (Auto-Login)

```
if (isset($_COOKIE['remember_user_id']) && isset($_COOKIE['remember_password'])) {
    $user_id = $_COOKIE['remember_user_id'];
    $password = $_COOKIE['remember_password'];
    // Auto-login logic here
}
```

Clearing Cookies (Logout)

```
if (isset($_COOKIE['remember_user_id'])) {
    setcookie('remember_user_id', '', time() - 3600, '/', '', false, true);
}
```

How to Test

1. Open the login page: http://localhost/DUMMY/index.php

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2. Login with test credentials:

- Student ID: ST001
- Password: password123
- Check "Remember me for 30 days"
- 3. Click Login → Dashboard appears
- 4. **Logout** → Return to login page
- 5. **Refresh the page** → Automatically logged in!
- 6. **View cookies**: Visit http://localhost/DUMMY/cookie_demo.php

Test Credentials

- Students: ST001, ST002, ST003 (Password: password123)
- Lecturers: LEC01, LEC02, LEC03, LEC04 (Password: lecturer123)

Cookie Features Demonstrated

- ✓ Cookie Creation Using setcookie() function
- ✓ Cookie Reading Using \$_COOKIE superglobal
- ✓ Cookie Expiration Setting 30-day expiration
- ✓ Cookie Security HTTPOnly flag implementation
- ✓ Cookie Deletion Clearing cookies on logout
- ✓ Cookie Validation Checking cookie existence and values

Learning Outcomes

- Understanding how cookies work in PHP
- Implementing persistent login functionality
- Managing cookie security and expiration
- Practical application of cookie technology in web development

Conclusion

Successfully implemented a complete remember me system using PHP cookies. The system now allows users to stay logged in for 30 days, demonstrating practical cookie usage in a real-world web application scenario.