

CSIS 3280 Lab 08-002: Login Authentication with PDO and DAO

- Download the template lab file and extract it
- Complete the task
- Make sure to follow the naming convention, zip the folder and submit it through the blackboard

Introduction

You are required to create a login management web application utilizing PDO and DAO. The app has three controller files such that use can register, login and see their profile (or logout). Note that the username for the login is the email address.

Requirement

1. You cannot modify the database schema in any way
2. You cannot modify any provided class name and function signature
3. Use the naming convention for the controller files
4. All constant declarations needs to be set in the config.inc.php
5. Make sure to run the sql script before implementing your php code

Files

1. Lab08_register_ABcXXXXX.php

- a. Complete the controller logic for the avatar registration. The inputs need to be validated. Entries with valid data will be stored to the database. Please see the requirement for the validation below.
- b. Make sure the password being stored in the database is hashed
- c. Upon the completion of creating the new user, the user will be redirected to the login page
- d. You need to make sure that the validation, createUser() in the UserDAO class, and displayRegistrationSection() in the Page class is working correctly to enable the registration functionality

2. **Lab08_login_ABcXXXXX.php**: Complete the controller logic for the user login. Upon successful login, the user will be forwarded to the user profile page. Notice that the username for the login is the email address. If the user entered wrong username or password, the login controller will update the page's notification to display the error.

3. **Lab08_profile_logout_ABcXXXXX.php**: Complete the controller logic for the user profile. Notice that the logout section is displayed only when the form is submitted. If there was no form submission, the controller will check whether the loggedin session is active or not. If it is active, the corresponding user profile will be displayed. If there is no active session, the user will be forwarded to the login page.

If there is a form submission, make sure that the session is unser and destroyed.

4. **Entity/User.class.php**: Create the setters, getters and verify password functionality

5. **Entity/Page.class.php**:

- a. Complete the header(), footer(), displayLoginSection(), displayUserDetailSection(), displayRegistrationSection(), and displayLogoutSection(). See the figures attached for reference
- b. Your student ID and name should be saved as the static member of the page class and should be used to display the page's heading.
- c. Make sure to take care the link on displayLoginSection() and displayRegistrationSection().
- d. In the displayRegistratioSection(), notice that the radio button values are picture1 until picture6. These are the filenames of the images in the images/ folder. You can either save that value or the complete filename (with its extension) in the database.
- e. In the displayUserProfileSection(), following your approach in saving the filename for the avatar's image, you need to make sure that the avatar image will be displayed correctly.

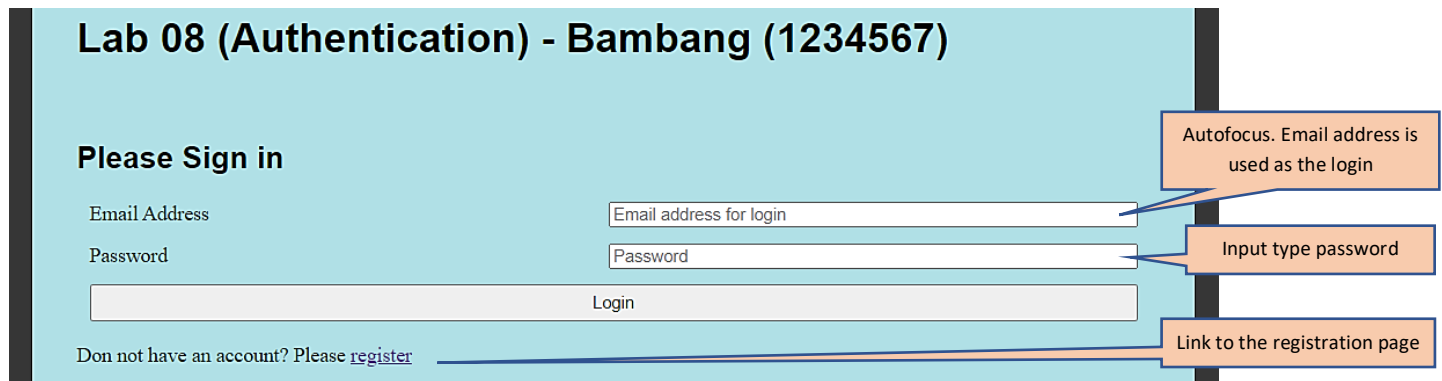
6. **Utility/LoginManager.class.php**: Complete the class. Make sure to forward the user to the login page if the user is not logged in.
7. **Utility/UserDAO.class.php**: Complete the class. Make sure all queries used prepared statements and parameter binding. All entries in the database need to be cleaned and trimmed.
8. **Utility/Validate.class.php**: Please validate all inputs as stated in the comments in that file. All errors need to be saved in the page's notifications static member.

Note: A ten percent bonus mark will be given if you check to the database whether an avatar with the same email has been created or not. If such a thing appears, an error message related to that should be also displayed in the registration page.

Hints

1. Refer to the Lecture 08 for the PDO/DAO, Lecture 03 for form validation and Lecture 09 for the authentication and session
2. If you cannot make the registration controller to work, add a dummy user with hashed password as an entry to the database and make sure the login, profile and logout are working fine

Login (entering username and password)



Lab 08 (Authentication) - Bambang (1234567)

Please Sign in

Email Address

Password

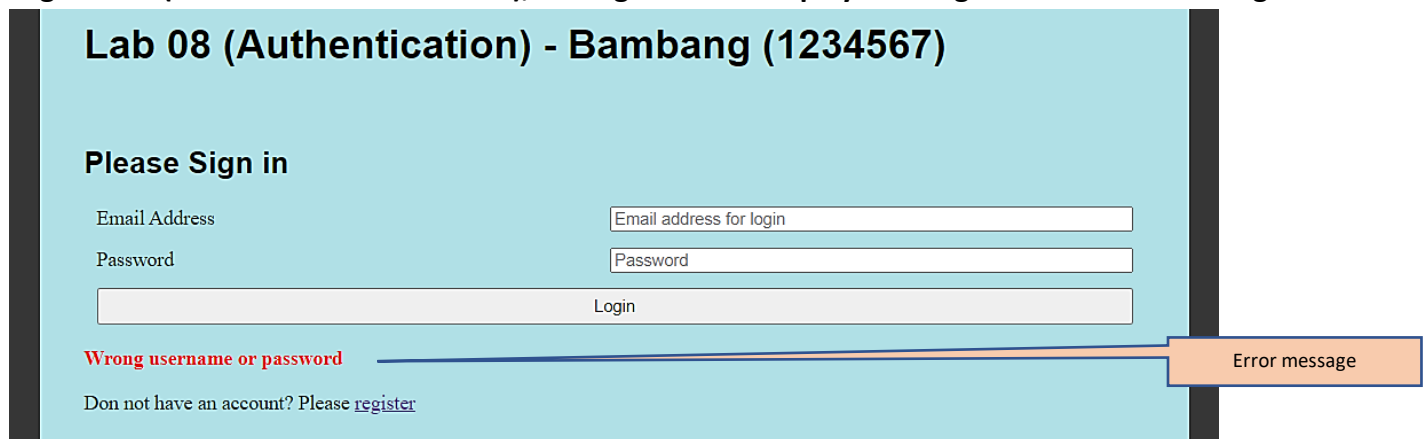
Don not have an account? Please [register](#)

Autofocus. Email address is used as the login

Input type password

Link to the registration page

Login error (such a user does not exist), the login form is displayed along with the error message



Lab 08 (Authentication) - Bambang (1234567)

Please Sign in

Email Address

Password

Wrong username or password

Don not have an account? Please [register](#)







Error message

Registration (entering the values)

Lab 08 (Authentication) - Bambang (1234567)

Have an account? Please [login](#)

Please fill the form

Email Address	<input type="text" value="john@douglascollege.ca"/>
Password	<input type="password" value="****"/>
Password confirm	<input type="password" value="****"/>
Full Name	<input type="text" value="John Doe"/>
Avatar Name	<input type="text" value="JohnQ"/>
Guild Name	<input type="text" value="Nefarious Noobs"/>
Affiliation	<input type="text" value="Chaos"/>
Avatar Image	<div><div><input type="radio"/></div><div><input type="radio"/></div><div><input type="radio"/></div><div><input type="radio"/></div><div><input type="radio"/></div><div><input type="radio"/></div></div>
<input type="button" value="Register"/>	

Link to the login page







Both must use input type password. The password must be in a 5-digits string format. Password confirm needs to be compared against the first password using string comparison

Registration. Notice the error message: wrong password or password and password confirm does not match, and none of the picture was selected.

Have an account? Please [login](#)

All inputs are required.
Please fix the error(s) in the password, avatar figure inputs.


Please fill the form

Email Address	<input type="text" value="Email address for login"/>
Password	<input type="password" value="Password"/>
Password confirm	<input type="password" value="Password confirm"/>
Full Name	<input type="text" value="FullName"/>
Avatar Name	<input type="text" value="Avatar Name"/>
Guild Name	<input type="text" value="Guild Name"/>
Affiliation	<input type="text" value="Neutral"/>
Avatar Image	<div><div><input type="radio"/></div><div><input type="radio"/></div><div><input type="radio"/></div><div><input type="radio"/></div><div><input type="radio"/></div><div><input type="radio"/></div></div>
<input type="button" value="Register"/>	

The error message; it should also state that none of the avatar picture was selected.

Registration (entering all the values correctly)

Please fill the form

Email Address	<input type="text" value="john@douglascollege.ca"/>
Password	<input type="password" value="*****"/>
Password confirm	<input type="password" value="*****"/>
Full Name	<input type="text" value="John Doe"/>
Avatar Name	<input type="text" value="JohnQ"/>
Guild Name	<input type="text" value="Nefarious Noobs"/>
Affiliation	<input type="text" value="Chaos"/>
Avatar Image	<div></div>
<input type="button" value="Register"/>	

Successful registration will bring the user to the login page.

Lab 08 (Authentication) - Bambang (1234567)

Please Sign in

Email Address	<input type="text" value="john@douglascollege.ca"/>
Password	<input type="password" value="*****"/>
<input type="button" value="Login"/>	

Don not have an account? Please [register](#)

Successful login will bring the user to the profile page.

Lab 08 (Authentication) - Bambang (1234567)

Hi JohnQ


Full Name: **John Doe**

Email Address: **john@douglascollege.ca**

Affiliation: **Chaos**

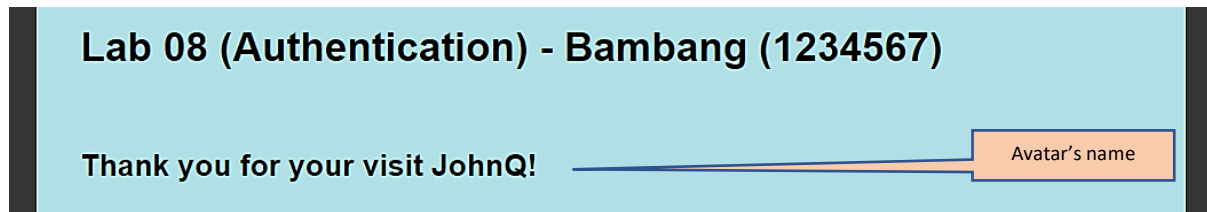
Guild Name: **Nefarious Noobs**

Submitting this form will unset and destroy the session and display the logout message.

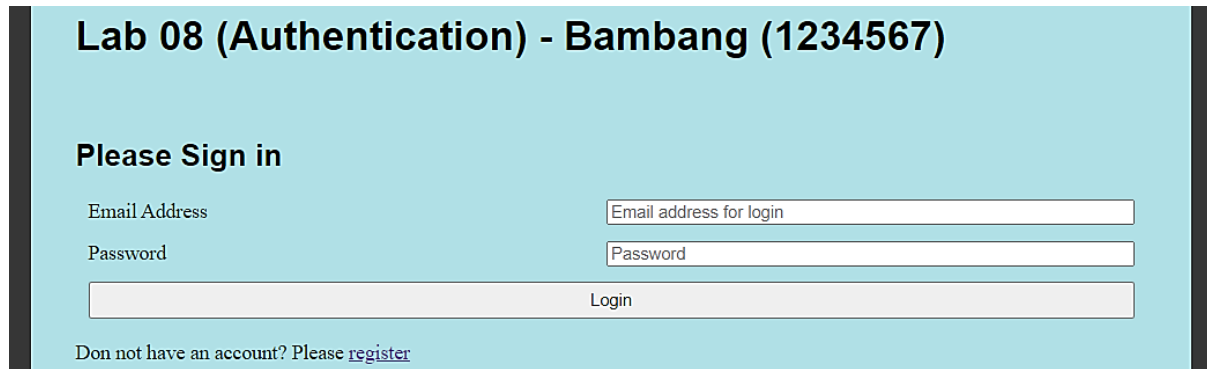


Avatar's name

Logout page (accessed by clicking the logout button in the profile page)



Visiting the profile page without login, the user will be redirected to the Login page.



LAB/ASSIGNMENT PRE-SUBMISSION CHECKLIST

- Did you follow the naming convention for your files?!
- Did you follow the naming convention for your folder?!
- Does your submission work on a lab computer?!
- Double check ****before**** submitting

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