

Lab 8

Due: 11:00pm on November 30, 2014

40 points

In this lab, you will be adding to and modifying the login website we created in class. Be sure to follow the directions below. In order to find your file on the server, make sure you specify the URL to access your file in your d2l submission as a comment. I would create a separate folder for this lab as there will be several files. It should be stored at something like <http://webdev.cs.uwosh.edu/userID/Labs/Login/index.php>. A link from the comments in your d2l submission makes your page much easier to find. Because this lab is considerably more difficult than other labs, it will be worth twice as much and you will be given an extra week to complete it.

1. Create a registration page that allows the user to sign up for your website. The registration page must accept a username, password and date of birth.
2. Your registration page must have two password textboxes as the user must reenter the password. The textboxes should not display the password but only display *'s.
3. You must disable the second password textbox until the user has entered a valid password in the first textbox. A valid password is one that has a number, a letter and a character that is neither a number or a letter. The password must also be 8 or more characters. Once the user has satisfied those requirements, the second password textbox is enabled. If the user modifies a valid password in the first box and it no longer meets the password requirements, the second password box is disabled, the text is cleared out and the background color is cleared out. As a hint, think about the onkeyup event.
4. When the second password textbox is enabled, the background of the textbox should be red to indicate the passwords do not match. The textbox should remain red until the user matches the first password textbox. When the password is entered the same as the first textbox, the textbox background immediately turns green. If the user makes a change to either password textbox and the passwords differ again and the password in the first textbox is still valid, the textbox background should change back to red. If the password of the first box became invalid, the action at the end of step 3 should occur.

5. The user must have entered a valid date. A date is valid if the user is more than 18 years old and less than 120 years old. Do not hardcode values in for what is 18 years old. Make sure to use the current date and time so your site isn't static. This check must occur when the user clicks the submit button. If the date was invalid, an error message pops up in some dialog box. If the date were valid and everything else was filled in correctly, the form submits as usual. This task is nontrivial and will take a bit of work to figure out how to do correctly.
6. Once the data has been submitted, you must ensure the username has not already been taken. If the username were taken already, you should post this error message and post a link back to the registration page.
7. Once the data has been submitted and the username is unique, your php file must do all of the validations again. You must validate the password has a letter, number and other character and must ensure the date is valid. It is not hard to bypass the form's validations and submit faulty data. Assuming the data is correct, you must insert the username, password and date of birth into your database. How you store the information is up to you. The only requirement is that you can't store the passwords as plaintext. You must use some kind of hash to encrypt the password. You can read about password hashing here: <http://php.net/manual/en/faq.passwords.php>
8. Modify the login procedure to query the database to ensure the user exists and the password is correct. If correct, the user is logged in. If incorrect, the same error message is shown.
9. A user should not be able to register if the user is already logged in.
10. You must create a logout link that logs the user out. After the user is logged out, the user is automatically redirected back to the login page.