```
Password: <input type="password" pattern="(?=.*\d)(?=.*[a-z])(?=.*[A-Z]).{8,}"
title="Password must contain at least one number, one uppercase and lowercase letter, and at
least 8 total characters." name="password" id="password" required /><br />
<input type="submit" value="Login">
</form>
```

HTML5 does not include a minimum length parameter. However, the pattern parameter can be used (with regular expressions) to establish a minimum size. In the username tag in the previous example, the pattern ".{8,}" requires at least eight characters be entered by the users. For password security, a more complicated pattern is needed. In the password example, in addition to the minimum requirement of eight characters, at least one number (?=.*\d), one uppercase letter (?=.*[A-Z]), and one lowercase letter (?=.*[a-z]) are required.

> *Security and performance—The HTML filtering provided is used to inform the users of any typos that may have occurred. In the login process you are not storing information; you are comparing information to what has already been stored. You don't have to be concerned with any possible harmful information being passed into the text boxes. Any harmful information would not match the valid information that's stored. The user would receive an invalid user ID/password message.*

```
// validate process not shown
$_SESSION['username'] = $_POST['username'];
$_SESSION['password'] = $_POST['password'];
 // Redirect the user to the home page
header("Location: http://www.asite.com/lab.php");
```

Assuming you have validated the information against a list of valid user IDs and passwords (you will look at that process soon), you can pass the valid user ID and password information into session variables. Then the PHP header method can be used to redirect the application to the next program to execute (lab.php). As long as lab.php includes the session_start method (as shown previously), it will have access to the session variables.

```
<?php
session_start();
if ((!isset($_POST['username'])) || (!isset($_POST['password'])))
{
?>
<form method="post" action="">
Username: <input type="text" pattern=".{8,}" title="Userid must contain eight or more
characters." name="username" id="username" required/><br />
Password: <input type="password" pattern="(?=.*\d)(?=.*[a-z])(?=.*[A-Z]).{8,}"
title="Password must contain at least one number, one uppercase and lowercase letter,
and at least 8 total characters."
 name="password" id="password" required /><br />
<input type="submit" value="Login">
</form>
<?php
} else {
// validate process not shown
  $_SESSION['username'] = $_POST['username'];
  $_SESSION['password'] = $_POST['password'];
```

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