

Web Programming MySQL

SELECTING Data FROM a Table within a Database

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COMP23111
Database Systems

Start Section 2

The General Structure

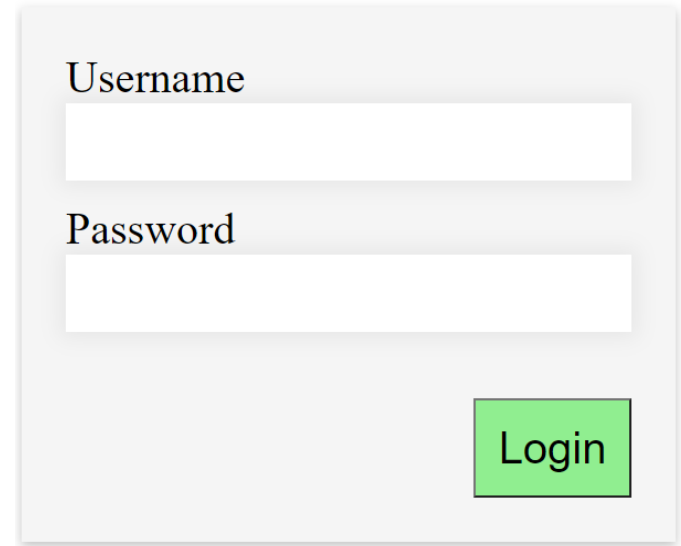
```
<?php
    if (empty($_POST)) echo(loginForm());
    else loginUser ();
?>
```

```
<?php
    if (empty($_POST)) echo(registerForm());
    else registerUser();
?>
```

Once you understand the fundamentals and general structure, you will find that there is a lot of repetition.

Get the User Input

```
function loginForm()  
{  
  return '  
    <div id="inner">  
      <form method="POST">  
        <label for="username">Username</label>  
        <input type="text" id="username" name="username">  
  
        <label for="password">Password</label>  
        <input type="password" id="password" name="password">  
  
        <input type="submit" value="Login">  
      </form>  
    <div id="outer">  
  ';  
}  
?>
```



Username

Password

Login

Process the Input

- Instead of using an SQL INSERT statement, we want to use an SQL SELECT statement

```
SELECT * FROM user WHERE username = ?
```

- It is a little trickier than INSERTing data because the data returned will need to be stored somewhere.
- A SELECT statement could return multiple rows

```
function loginUser()  
{  
    $un = $_POST['username'];  
    $pw = $_POST['password'];  
  
    $sql = "SELECT username, password FROM user  
           WHERE username = :userId";  
  
    $pdo = new pdo('mysql:host=localhost;dbname=myDB', 'root', '');  
    $pdo->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_WARNING);  
  
    $stmt = $pdo->prepare($sql);  
    $stmt->execute([  
        'userId' => $un  
    ]);
```

```
function loginUser()  
{  
    ...  
    $stmt->setFetchMode(PDO::FETCH_ASSOC);  
  
    while ($row = $stmt->fetch())  
    {  
        if (password_verify($pw, $row['password']))  
            echo("<br>Password OK - User logged in.");  
        else  
            echo("<br>Invalid Credentials");  
  
        echo("<br>User" . $row['username']);  
        echo("<br>Password" . $row['password']);  
    }  
}
```

```
function loginUser()  
{  
    ...  
    $stmt->setFetchMode(PDO::FETCH_ASSOC);  
  
    while ($row = $stmt->fetch())  
    {  
        if (password_verify($pw, $row['password']))  
            echo("<br>Password OK - User logged in.");  
        else  
            echo("<br>Invalid Credentials");  
  
        echo("<br>User" . $row['username']);  
        echo("<br>Password" . $row['password']);  
    }  
}
```


Overview

userId	username	password
1	Bill	cheery
2	Mary	happy
3	Anya	smiley

```
$stmt = [  
    [useId => 1, username => "Bill", password => "cheery"]  
    [useId => 2, username => "Mary", password => "happy"]  
    [useId => 3, username => "Anya", password => "smiley"]  
]
```

```
$row = $stmt->fetch()  
echo($row['username'] . " " . $row['password']);
```

Bill	cheery
------	--------

```
$row = $stmt->fetch()  
echo($row['username'] . " " . $row['password']);
```

Mary	happy
------	-------

Summary

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