

Creating a User Registration Form

In the previous tutorial, you created a users table and learned how to securely store passwords using password hashing. In this tutorial, you will create a registration form that allows new users to create an account and store their details in the database.

Create the Registration Form

Create a new file called:

```
register.php
```

Add the following code:

```
<!DOCTYPE html>
<html>
<head>
  <title>User Registration</title>
</head>
<body>

<h1>Create Account</h1>

<form action="register.php" method="post">

  <label>Username</label><br>
  <input type="text" name="username" required><br><br>

  <label>Password</label><br>
  <input type="password" name="password" required><br><br>

  <button type="submit">Register</button>
```

```
</form>
```

```
</body>
```

```
</html>
```

Save the file and open it in your browser.

Example:

```
http://localhost/register.php
```

You should see a simple registration form.

Create Account

Username

Password

Register

Connect to the Database

Add the following PHP code immediately before the `<!DOCTYPE html>` line:

```
<?php

$conn = new mysqli(
    "localhost",
    "root",
    "",
    "project_db"
);

if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
```

```
?>
```

This creates a connection to the `project_db` database.

Process the Form Submission

Add the following code underneath the database connection:

```
if ($_SERVER["REQUEST_METHOD"] == "POST") {  
  
    $username = $_POST["username"];  
    $password = $_POST["password"];  
  
}
```

This code runs when the form is submitted.

Hash the Password

Inside the `if` statement, add:

```
$hashedPassword = password_hash(  
    $password,  
    PASSWORD_DEFAULT  
);
```

Your code should now look like:

```
if ($_SERVER["REQUEST_METHOD"] == "POST") {  
  
    $username = $_POST["username"];  
    $password = $_POST["password"];  
  
    $hashedPassword = password_hash(  
        $password,  
        PASSWORD_DEFAULT
```

```
);  
  
}
```

The password will now be securely hashed before being stored.

Insert the User into the Database

Add the following code underneath the password hashing:

```
$stmt = $conn->prepare(  
    "INSERT INTO users (username, password)  
    VALUES (?, ?)"  
);  
  
$stmt->bind_param(  
    "ss",  
    $username,  
    $hashedPassword  
);  
  
$stmt->execute();
```

This inserts the username and hashed password into the users table.

Display a Success Message

Add:

```
echo "<p>Account created successfully.</p>";
```

The completed section should look like:

```
if ($_SERVER["REQUEST_METHOD"] == "POST") {  
  
    $username = $_POST["username"];
```

```
$password = $_POST["password"];

$hashedPassword = password_hash(
    $password,
    PASSWORD_DEFAULT
);

$stmt = $conn->prepare(
    "INSERT INTO users (username, password)
    VALUES (?, ?)"
);

$stmt->bind_param(
    "ss",
    $username,
    $hashedPassword
);

$stmt->execute();

echo "<p>Account created successfully.</p>";
}
```

Create a New User Account

Open:

<http://localhost/register.php>

Enter:

Username: testuser
Password: mypassword

Click **Register**.

You should see:

Account created successfully.

Check the Database

Open phpMyAdmin and view the users table.

Run:

```
SELECT * FROM users;
```

You should now see the new account.

Example:

user_id	username	password
1	admin	\$2y\$10\$...
2	teacher	\$2y\$10\$...
3	testuser	\$2y\$10\$...

Notice that the password is stored as a hash rather than plain text.

	user_id	username	password
☐ Edit Copy Delete	1	admin	\$2y\$10\$rsxUoLNwmn/rSdRycD1efe1p56TNC2RLmYyQvlt84...
☐ Edit Copy Delete	2	teacher	\$2y\$10\$.Z/p08yOHBi0HGdCnuBqyuPwmXPgBHLgBDuJK7EEuSs...
☐ Edit Copy Delete	3	testuser	\$2y\$10\$Qhb9miYevxo9AAVenO12ruVi71DpwR0b2iy9suZc9BG...

Complete Code

```
<?php

$conn = new mysqli(
    "localhost",
    "root",
    "",
    "project_db"
);
```

```
if ($conn->connect_error) {  
    die("Connection failed: " . $conn->connect_error);  
}
```

```
if ($_SERVER["REQUEST_METHOD"] == "POST") {
```

```
    $username = $_POST["username"];
```

```
    $password = $_POST["password"];
```

```
    $hashedPassword = password_hash(  
        $password,
```

```
        PASSWORD_DEFAULT
```

```
    );
```

```
    $stmt = $conn->prepare(  
        "INSERT INTO users (username, password)
```

```
        VALUES (?, ?)"
```

```
    );
```

```
    $stmt->bind_param(  
        "ss",
```

```
        $username,
```

```
        $hashedPassword
```

```
    );
```

```
    $stmt->execute();
```

```
    echo "<p>Account created successfully.</p>";
```

```
}
```

```
?>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <title>User Registration</title>
```

```
</head>
```

```
<body>
```

```
<h1>Create Account</h1>
```

```
<form action="register.php" method="post">

    <label>Username</label><br>
    <input type="text" name="username" required><br><br>

    <label>Password</label><br>
    <input type="password" name="password" required><br><br>

    <button type="submit">Register</button>

</form>

</body>
</html>
```

You now have a working registration form that stores user accounts in the database using secure password hashing.

Next tutorial: **Creating a Login Form.**

Revision #1

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