

# Lecture 25

## Database Connectivity in PHP

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# Summary of the previous lecture

- **Writing regular expression in PHP**
- **Validating user's input**
- **String functions**

# Outline

- **Creating database in MySQL using WAMP**
- **Connecting PHP with MySQL**
- **Inserting data in database**
- **CONNECTIONS: user registration**

# 1. Creating database in MySQL using WAMP

- Go to **home page** of WAMP server
- Select **PHP myadmin**
- Login to **MySql**
- Enter **database name** and click **create database** button

# 1. Creating database in MySQL using WAMP...

- **Creating a table in a database:**
- Select **database** from the list of databases
- Enter **table name** and **number** of columns
- Enter **name**, **data-type** and **other required properties** for columns
- Click **create** table button

## 2. Connecting PHP with MySQL

- `mysqli_connect("hostname", "username", "password", "databaseName")`

## 2. Connecting PHP with MySQL...

```
<?php
```

```
    $con=mysqli_connect("localhost","root","","dbName");  
    if(mysqli_connect_errno()){  
        echo "Following Error Occurred".  
        mysqli_connect_error();  
    }
```

```
?>
```

# 3. Inserting data in database

- Create **form** to receive **input** from user
- On action page
  - **Retrieve** user's input
  - **Validate** user's input (**optional**)
  - Establish **connection** with database
  - Write **insert** command
  - **Execute** command



# 3. Inserting data in database...

- **Insert SQL command:**

**INSERT INTO `table\_name`**

**(list of columns)**

**VALUES (list of values)**

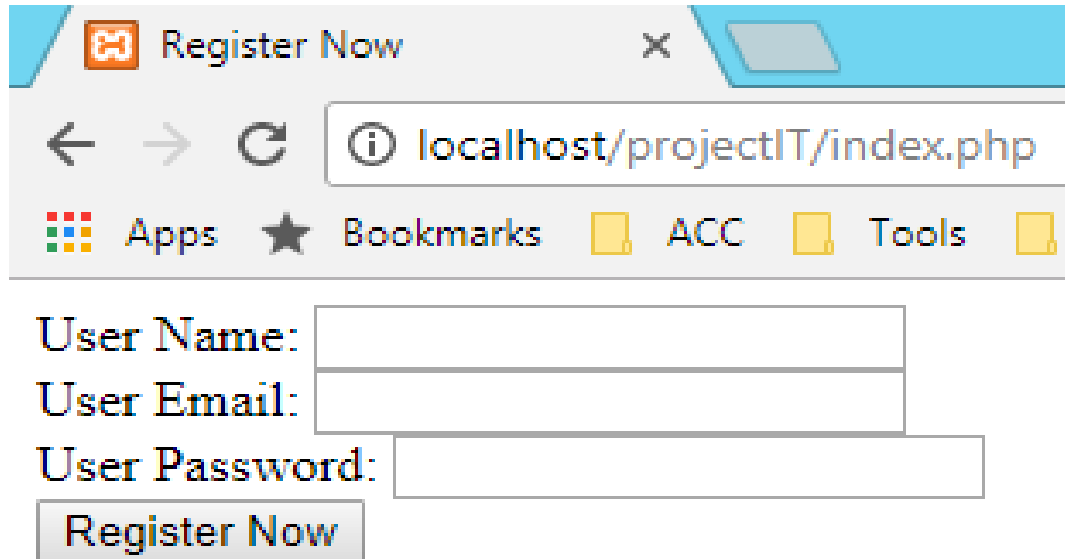
**INSERT INTO users**

**('user\_Name','user\_Email','user\_Password')**

**VALUES ('\$name','\$email','\$password')**

- **mysqli\_query(connectionVariable,query to execute)**

# 3. Inserting data in database...



The screenshot shows a web browser window titled "Register Now" with the address bar displaying "localhost/projectIT/index.php". Below the browser window, there is a registration form with three input fields: "User Name:", "User Email:", and "User Password:". A "Register Now" button is located below the "User Password" field.

← **name**

← **email**

← **password**

# 3. Inserting data in database...

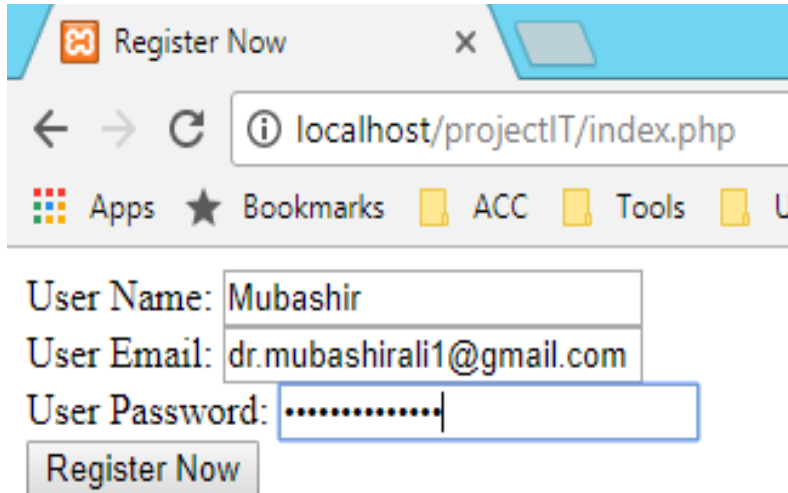
```
<?php
    include("db.php");
?>
<html>
    <head>
        <title> Register Now </title>
    </head>
    <body>
        <form method="POST" action="">
            User Name: <input type="text" name="un" required /> <br>
            User Email: <input type="email" name="ue" required /> <br>
            User Password: <input type="password" name="up" required /><br>
            <input type="submit" name="ur" value="Register Now"/>
        </form>
    </body>
</html>
```

# 3. Inserting data in database...

```
<?php
    global $con;
    if(isset($_POST['ur'])){
        $uname=$_POST['un'];
        $uemail=$_POST['ue'];
        $upass=$_POST['up'];

        $regu="INSERT INTO user(uname,uemail,upass) VALUES
('$uname','$uemail','$upass)";
        $runc=mysqli_query($con,$regu);
        if($runc){
            echo "Data Inserted";
        }else{
            echo "Error Occurred - Not Inserted";
        }
    }
?>
```

# 3. Inserting data in database...



Register Now

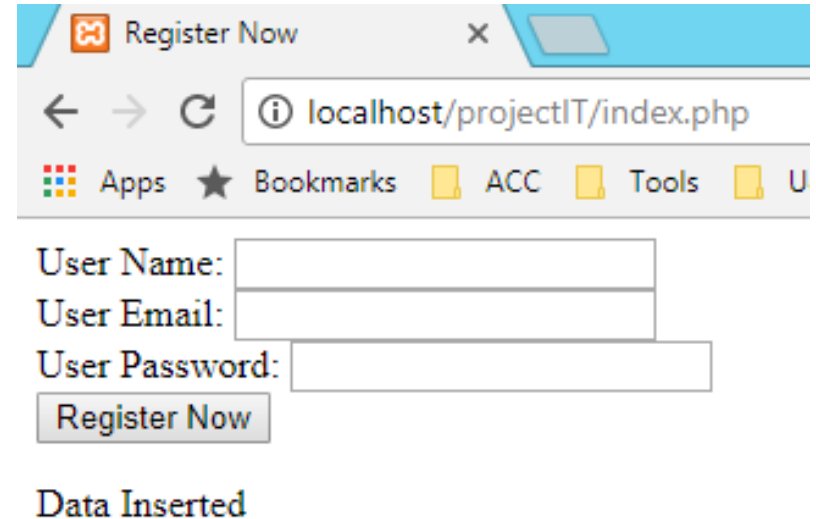
localhost/projectIT/index.php

Apps ★ Bookmarks ACC Tools U

User Name:

User Email:

User Password:



Register Now

localhost/projectIT/index.php

Apps ★ Bookmarks ACC Tools U

User Name:

User Email:

User Password:

Data Inserted

## 4. CONNECTIONS: user registration

- **Create database**
  - Database name: **connections**
  - Table name: **users**
- **Table columns:**
  - **user\_Id int 4**
  - **User\_Name text 25**
  - **User\_Email varchar 35**
  - **User\_Password varchar 20**
  - **User\_Picture varchar 50**

# 4. Exercise: CONNECTIONS - User Registration

The screenshot shows a web browser window with the address bar displaying 'localhost/CONNECTIONS/'. The page features a dark red header with the text 'CONNECTIONS Get Connected'. Below the header, there are two main sections: 'User Login' and 'User Registration'. The 'User Registration' form includes fields for 'Your Full Name', 'Your Email Address', 'Your Password', and 'Your Picture'. Red arrows point from the labels 'post name', 'email', and 'password' to the respective input fields. A 'Register' button is located at the bottom of the form. The footer contains the text '© all rights reserved'.

**CONNECTIONS**  
Get Connected

**User Login**

Your ID

Your Password

Login

**User Registration**

Your Full Name:

Your Email Address:

Your Password:

Your Picture:  No file chosen

Register

post name

email

password

© all rights reserved

# Summary

- **Creating database in MySQL using WAMP**
- **Connecting PHP with MySQL**
- **Inserting data in database**
- **Exercise: CONNECTIONS - User Registration**



# References

- **Chapter 30, “Beginning PHP and MySQL”** by W. Jason Gilmore, Apress publisher, 4th edition; 2010, ISBN-13 (electronic): 978-1-4302-3115-8.