Web Engineering LAB



Lab # 11 PHP MySQL Database

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Content

MYSQL	
PHPMYADMIN	
CONNECTION TO MYSQL	3
CREATING A MYSQL DATABASE USING PHP	4
CREATING A TABLE USING PHP	4
Inserting Data in PHP	5
References	6
LAB TASKS:	7

MySQL

With PHP, you can connect to and manipulate databases. MySQL is the most popular database system used with PHP.

- MySQL is a database system used on the web
- MySQL is a database system that runs on a server
- MySQL is ideal for both small and large applications
- MySQL is very fast, reliable, and easy to use
- MySQL uses standard SQL
- MySQL compiles on a number of platforms
- MySQL is free to download and use
- MySQL is developed, distributed, and supported by Oracle Corporation
- MySQL is named after co-founder Monty Widenius's daughter: My

The data in a MySQL database are stored in tables. A table is a collection of related data, and it consists of columns and rows.

Databases are useful for storing information categorically. A company may have a database with the following tables:

- Employees
- Products
- Customers
- Orders

phpMyAdmin

phpMyAdmin is a free software tool written in PHP, intended to handle the administration of MySQL over the Web. phpMyAdmin supports a wide range of operations on MySQL and MariaDB. Frequently used operations (managing databases, tables, columns, relations, indexes, users, permissions, etc) can be performed via the user interface, while you still have the ability to directly execute any SQL statement.

Connection to MySQL

Before we can access data in the MySQL database, we need to be able to connect to the server:

```
<?php
$servername = "localhost";
$username = "username";
$password = "password";

// Create connection
$conn = mysqli_connect($servername, $username, $password);

// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}
echo "Connected successfully";
}
</pre>
```

```
<?php
// Connecting to the Database
$servername = "localhost";
$username = "root";
$password = "root";
// Create a connection
$conn = mysqli_connect($servername, $username, $password);
if (!$conn){
    die("Sorry we failed to connect: ". mysqli_connect_error());
}else{
   echo "Connection was successful<br>";
// Create a db
$sql = "CREATE DATABASE dbWebEngineering";
$result = mysqli_query($conn, $sql);
// Check for the database creation success
if($result){
    echo "The db was created successfully!<br>";
    echo "The db was not created successfully because of this error ---> ".
mysqli_error($conn);
}
?>
```

Creating a Table using PHP

```
<?php

// Connecting to the Database

$servername = "localhost";

$username = "root";

$password = "root";

$database = "dbwebengineering";

</pre>
```

```
// Create a connection
$conn = mysqli_connect($servername, $username, $password, $database);
if (!$conn){
    die("Sorry we failed to connect: ". mysqli_connect_error());
}
else{
    echo "Connection was successful<br>";
}
// Create a table in the db
$sql = "CREATE TABLE ` CREATE TABLE `dbwebengineering`.`students` ( `sno` INT(5)
NOT NULL AUTO_INCREMENT , `name` VARCHAR(32) NULL DEFAULT NULL , `registration` VARCHAR(11) NULL DEFAULT NULL , `semester` INT(2) NULL DEFAULT NULL , PRIMARY KEY
(`sno`)) ENGINE = InnoDB;
$result = mysqli_query($conn, $sql);
// Check for the table creation success
if($result){
    echo "The table was created successfully!<br>";
}
else{
    echo "The table was not created successfully because of this error ---> ".
mysqli_error($conn);
}
```

Inserting Data in PHP

```
// Connecting to the Database

$servername = "localhost";

$username = "root";

$password = "root";

$database = " dbwebengineering";

// Create a connection

$conn = mysqli_connect($servername, $username, $password, $database);
```

```
// Die if connection was not successful
if (!$conn){
    die("Sorry we failed to connect: ". mysqli_connect_error());
}else{
echo "Connection was successful<br>";
}
// Sql query to be executed
sql =
"INSERT INTO `students` (`sno`, `name`, `registration`, `semester`) VALUES
('123', 'ahmad', '123NU2022', '6')
$result = mysqli_query($conn, $sql);
// Add a new trip to the Trip table in the database
if($result){
    echo "The record has been inserted successfully successfully!<br>";
}else{
    echo "The record was not inserted successfully because of this error -
--> ". mysqli_error($conn);
}
?>
```

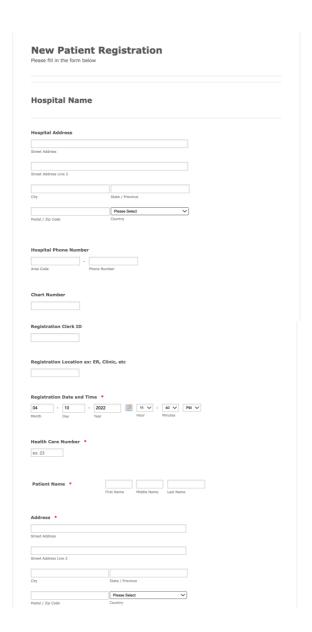
References

- 1. https://www.w3schools.com/php/php mysql connect.asp
- 2. https://codewithharry.com/videos/php-tutorials-in-hindi-28/

Lab Tasks:

- 1. Consider the patient registration form (created in previous lab) and do the following:
 - a. Establish a database connection
 - b. Create a database using php
 - c. Create table(s) using php
 - d. Insert data in the table using php

Patient Registration Form



- Area Code	Phone Number
Phone Number - Work	(entional)
	(optional)
Area Code	Phone Number
E-mail (optional)	ex: myname@example.com
Sex *	V
Date of Birth *	Moreth Day Year
Marital Status	
Province of Residence	
In case of emergency	
Emergency Contact:	
	First Name Last Name
Relationship *	
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Family Doctor Phone N	Area Code Phone Number
Family Doctor Name	Area Code Phone Number
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