UNIT – IV PHP

Database Connectivity

- 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.

PHP + MySQL Database System

PHP combined with MySQL are cross-platform. Query is a question or a request. We can query a database for specific information and have a recordset returned.

The collection of related data is called a database. XAMPP stands for cross-platform, Apache, MySQL, PHP, and Perl. It is among the simple light-weight local servers for website development.

Requirements: XAMPP web server procedure:
- Start XAMPP server by starting Apache and MySQL.
- Write PHP script for connecting to XAMPP.
- Run it in the local browser.
- Database is successfully created which is based on the PHP code.

PHP 5 and later can work with a MySQL database using:

- MySQLi extension (the 'i' is abbreviation for improved)
- PDO (PHP Data Objects)

Which one should we use MySQLi or PDO?

Both MySQLi and PDO have their recompenses:

- PDO will work with 12 different database systems, whereas MySQLi will only work with MySQL databases.

- Both are object-oriented, but MySQLi also offers a procedural API.

<u>PHP code to create a database:</u>

```php
<?php
// Server name must be localhost
$servername = "localhost";
// In my case, user name will be root
$username = "root";
// Password is empty
$password = "";
// Creating a connection
$conn = new mysqli($servername,
$username, $password);
// Check connection
if ($conn->connect_error) {
die("Connection failure: "
. $conn->connect_error);
}
// Creating a database named geekdata
$sql = "CREATE DATABASE geekdata";
if ($conn->query($sql) === TRUE) {
echo "Database with name geekdata";
} else {
echo "Error: " . $conn->error;
}
// Closing connection
$conn->close();
?>
```