

MySQL and PHP - Developing Dynamic Web Applications

Course Description

PHP is a widely used, free, powerful server side scripting language for developing dynamic and interactive Web pages quickly. MySQL is the most popular Database Management System used for manipulating database. This course will help you develop skills to combine the powers of PHP and MySQL database management techniques to create efficient, dynamic and secure web applications.

Duration 5 Days

Prerequisites

Knowledge of HTML would be beneficial but not compulsory

Course Objectives

- Setting up the environment
- Getting Started with PHP
- Working with PHP variables, controls, functions
- Setting up and processing Forms
- Introducing Object-Oriented programming
- Introduction to MySQL
- Creating connection to Database
- Creating tables and making updates to the table data

Course Topics

Getting started with PHP

- Installing XAMPP
- Installing your Editor and configuring your workspace
- Adding your first PHP code to your Web Page
- Picking a formatting style
- Learning PHP syntax



- Introduction to PHP variables
- Working with String functions
- Understanding different types of numbers
- Debugging techniques

Working with Complex Data

- Working with Arrays
- Working with Logical variables
- Working with Constants
- Working with Dates
- Working with built-in functions

Working with PHP controls

- If/Else Statements
- Logical Operators
- Switch Statements
- Repeating program steps using various loops

Reusing Code with functions

- Defining Functions
- Passing Parameters
- Getting values from functions
- Using functions

Creating Forms

- Setting up Forms
- Processing Forms

Objects and Classes

- Introducing Object Oriented Programming
- Defining Classes
- Creating Objects

Introducing MySQL Database

- What is a Database
- Gathering information to define a database
- Designing Your Tables
- Setting up Relationships between Tables
- Normalizing the Tables
- Using phpMyAdmin interface

Connecting to Database

- Connecting with the Database
- Creating a Database
- Understanding Data Types
- Understanding defaults
- Creating tables in phpMyAdmin
- Using .sql script files
- Adding MySQL Tables to PHP

Handling Data

- Understanding INSERT command
- Executing MySQL commands in PHP
- Processing Data Entry Forms in PHP
- Using SELECT command
- Using WHERE clause
- Selecting Data in PHP
- Using UPDATE command
- Updating Data in PHP
- Using Prepared Statements
- Using DELETE command
- Deleting Data in PHP



Joins

- What is a Join
- Using Sub Queries

Creating USER Logins

- Understanding Access Control
- Protecting Passwords
- Using Cookies and Sessions

Conclusion

- Course Overview
- Course Evaluation