

## PHP with My SQL

Web Application Development Introduction to PHP & MySQL Evaluation of PHP Features of PHP PHP Versions & Comparisons Installation & Configuration WAMP, LAMP, MAMP, XAMPP PHP Project Development using IDEs

### PHP Basics

- ➔ Introduction to Scripting
- ➔ PHP Program Structure
- ➔ Basic PHP Syntax
- ➔ Configuration Settings
- ➔ Output functions in PHP
- ➔ Comments in PHP

### Variables

- ➔ Variable Declarations
- ➔ Variable Scopes
- ➔ Data Types
- ➔ Variable Manipulations
- ➔ String Variables
- ➔ Heredoc Style
- ➔ Nowdoc Style
- ➔ Variable-Variables
- ➔ Reference Variables
- ➔ Constant Variables
- ➔ Magic Constants
- ➔ Errors Types in PHP
- ➔ Operators
- ➔ Making Decisions
- ➔ Condition Statements
- ➔ Control Statements
- ➔ Case Studies

### Arrays

- ➔ Anatomy of an Array
- ➔ Creating index based & Associative Array
- ➔ Accessing Array Element
- ➔ Looping with index based array
- ➔ Looping with associative array using each() and foreach()
- ➔ Array Functions

### Web Application Development

- ➔ Handling HTML form with PHP
- ➔ PHP Forms & Validations
- ➔ Super Global Variables of PHP
- ➔ Capturing Form data
- ➔ Dealing with Multi value fields
- ➔ Redirecting a form after submission

### Functions

- ➔ What is a function?
- ➔ Define a function
- ➔ Functions Passing & returning arguments
- ➔ Call by Value
- ➔ Call by reference

- ➔ Function overloading
- ➔ Local & Global Variables
- ➔ Static Variables
- ➔ Recursive Functions

### Built-in Functions

- ➔ Built-in Functions
- ➔ Date Functions
- ➔ String Functions
- ➔ Working with Files & Directories
- ➔ Understanding file & directory
- ➔ Opening and closing a file
- ➔ Copying, renaming, deleting a file
- ➔ Working with directories
- ➔ File Functions
- ➔ Directory Functions
- ➔ File Uploading & Downloading

### Server Side Includes

- ➔ include() & include\_once()
- ➔ require() & require\_once()

### Authentication Methodologies

- ➔ HTTP Authentication
- ➔ PHP Authentication

### Session Tracking/ State Management

- ➔ Need for State Management
- ➔ Session Tracking using Hidden form fields
- ➔ Session Tracking using query string (URL rewriting)

- ➔ Session Tracking using Cookies
- ➔ Session Tracking using PHP Session
- ➔ Encoding & Decoding Session Data
- ➔ Recently viewed document index
- ➔ Login Module in Project

### String matching with Regular

- ➔ Expressions
- ➔ What is Regular Expression
- ➔ Pattern Matching in PHP
- ➔ Replacing text
- ➔ Splitting a string with regular Expression
- ➔ Validating text box values
- ➔ Validating emails, phone number etc
- ➔ Creating custom regular expressions

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### Generating Images with PHP

- ➔ Basics of Computer Graphics
- ➔ Creating Image
- ➔ Manipulating Image
- ➔ using text in Image

### Object Oriented Programming in PHP

- ➔ Introduction
- ➔ Class & Objects
- ➔ Attributes & Methods
- ➔ Declaring a class
- ➔ Encapsulation
- ➔ new Keyword
- ➔ private, protected and public properties & methods
- ➔ Constructors & Destructors
- ➔ Instance of operator
- ➔ Overloading Member Functions
- ➔ Inheritance
- ➔ Polymorphism
- ➔ Overriding Members
- ➔ parent:: & self:: keywords
- ➔ Static & Constant Members
- ➔ Scope Resolution Operator
- ➔ Helper Functions
- ➔ Abstract Class
- ➔ Interfaces
- ➔ Object Iteration
- ➔ final Keyword
- ➔ Object Cloning
- ➔ Object Serialization
- ➔ Reflections

### Exception Handling

- ➔ Understanding Exception & Error
- ➔ Configurations

- ➔ PHPs Exception class
- ➔ try...catch..throw
- ➔ User-defined Exceptions
- ➔ Server Side Validations
- ➔ using PHP Filters

### E-mail Services

- ➔ Email Protocols
- ➔ Mail Servers
- ➔ Sending email using sendmail
- ➔ Working with PHP Mailer
- ➔ Working with Swift Mailer
- ➔ Sending an Email with Attachment

Using PHP from the Command Line PHP Zip file functions Google Maps API

### My SQL

- ➔ Introduction to DBMS & RDBMS
- ➔ Introduction to MySQL Database
- ➔ Database Creation
- ➔ SQL
- ➔ DDL Commands
- ➔ DML Commands
- ➔ DRL Command
- ➔ TCL & DCL Commands
- ➔ Storage Engines
- ➔ MySQL Data Types
- ➔ Constraints Working with MySQL in the Backend
- ➔ Working with phpMyAdmin

- ➔ PHP functions to work with MySQL
- ➔ Performing CRUD operations
- ➔ Working with Large Objects
- ➔ Storing Images in Database
- ➔ Aggregate Functions
- ➔ Sub-queries
- ➔ Functions in MySQL
- ➔ Stored Procedures in MySQL
- ➔ Cursors
- ➔ Indexing in MySQL
- ➔ Joins
- ➔ Views
- ➔ SQL Injection
- ➔ Pagination, Sorting etc Using ODBC & OCI functions
- ➔ MySQL Vs MySQLi in PHP
- ➔ PHP Data Objects (PDO) Interface

## Joomla

- ➔ Content Management System Types of CMS
- ➔ Installation
- ➔ Setting up a JOOMLA Site Create Articles
- ➔ Template Manager Change the Template Custom Templates
- ➔ Create Menus in Joomla Site Module Manager
- ➔ Login Page
- ➔ User Administration Search Module
- ➔ Breadcrumb, Statistics
- ➔ Who's Online, Wrapper Modules

- ➔ Integrate a Banner & Contacts Integrate Web Links
- ➔ Integrate Captcha-reCaptcha JOOMLA Components
- ➔ Plug-in Manager
- ➔ Extended Modules & Plugins into Joomla Site
- ➔ Live Support
- ➔ Simple Image Gallery Google Maps
- ➔ PHP code in Joomla Site Other extended modules
- ➔ Backing up and /or Restoring JOOMLA Site
- ➔ Custom Modules

## Wordpress

### Foundations of a WordPress-based website

- ➔ Understanding and Using domain names
- ➔ WordPress Hosting Options
- ➔ Installing WordPress on a Dedicated Server
- ➔ Understanding Directory Permissions

### Basics of the WordPress User Interface

- ➔ Understanding the WordPress Dashboard
- ➔ Pages, Tags, Media and Content Administration
- ➔ Core WordPress Settings

### Finding and Using WordPress Plugins

- ➔ Finding and Installing Plugins Quickly and Easily
- ➔ Upgrading WordPress Plugins
- ➔ Recommended WordPress Plugins

### Working with WordPress Themes

- ➔ Understanding the Structure of WordPress Themes
- ➔ Finding Themes and Choosing the Right One
- ➔ Installing and Configuring Themes
- ➔ Editing and Customizing Themes
- ➔ Using Theme Frameworks and Parent-Child Themes
- ➔ Theme Best Practices

### WordPress Content Management

- ➔ Understanding Posts Versus Pages
- ➔ Organizing Posts with Categories
- ➔ Connecting Posts Together with Tags
- ➔ Custom Post Types and Custom Taxonomies
- ➔ Managing Lists of Links

### Creating and Managing Content

- ➔ Hands-On Training on the WordPress Editors
- ➔ Hands-On Training on the New Image Editor

- ➔ Adding Video and Audio Media to a Word Press Site

### Word Press based Sites

- ➔ Word Press as a Blog vs. Word Press as a Website