



4. Web Development

4.3 PHP Development Training

Prerequisites:

1. C/C++
2. OOPs Concept
3. HTML, CSS & JavaScript

Duration: 30 Lectures

Course Content:

1. Core PHP

- 1.1. Introduction to PHP
- 1.2. Evaluation of Php
- 1.3. Basic Syntax
- 1.4. Defining variable and constant
- 1.5. Php Data type
- 1.6. Operator and Expression

2. Decisions and loop

- 2.1. Making Decisions
- 2.2. Doing Repetitive task with looping
- 2.3. Mixing Decisions and looping with Html

3. Function

- 3.1. What is a function
- 3.2. Define a function
- 3.3. Call by value and Call by reference
- 3.4. Recursive function



4. String

- 4.1. Creating and accessing String
- 4.2. Searching & Replacing String
- 4.3. Formatting String
- 4.4. String Related Library function

5. Array

- 5.1. Anatomy of an Array
- 5.2. Creating index based and Associative array
- 5.3. Accessing array Element
- 5.4. Looping with Index based array
- 5.5. Looping with associative array using each() and foreach()
- 5.6. Some useful Library function

6. Working with file and Directories

- 6.1. Understanding file& directory
- 6.2. Opening and closing a file
- 6.3. Coping ,renaming and deleting a file
- 6.4. Working with directories
- 6.5. Building a text editor
- 6.6. File Uploading & Downloading

7. State management

- 7.1. Using query string(URL rewriting)
- 7.2. Using Hidden field
- 7.3. Using cookies
- 7.4. Using session

8. String matching with regular expression

- 8.1. What is regular expression
- 8.2. Pattern matching in Php
- 8.3. Replacing text
- 8.4. Splitting a string with a Regular Expression



9. Generating Images with PHP

- 9.1. Basics of computer Graphics
- 9.2. Creating Image
- 9.3. Manipulating Image
- 9.4. Using text in Image

10. Database Connectivity with MySQL

- 10.1. Introduction to RDBMS
- 10.2. Connection with MySQL Database
- 10.3. Performing basic database operation(DML) (Insert, Delete, Update, Select)
- 10.4. Setting query parameter
- 10.5. Executing query
- 10.6. Join (Cross joins, Inner joins, Outer Joins, Self joins.)

11. Handling Html Form With Php

- 11.1. Capturing Form Data
- 11.2. Dealing with Multi-value filed
- 11.3. Generating File uploaded form
- 11.4. Redirecting a form after submission

12. Advance PHP

- 12.1. Introduction to advance concepts in PHP
- 12.2. Advantages
- 12.3. Examples

13. OOPS in PHP

- 13.1. Introduction
- 13.2. Objects
- 13.3. Declaring a class
- 13.4. The new keyword and constructor
- 13.5. Destructor
- 13.6. Access method and properties using \$this variable
- 13.7. Public ,private, protected properties and methods



- 13.8. Static properties and method
- 13.9. Class constant
- 13.10. Inheritance & code reusability
- 13.11. Polymorphism
- 13.12. Parent:: & self:: keyword
- 13.13. Instance of operator
- 13.14. Abstract method and class
- 13.15. Interface
- 13.16. Final

14. Exception Handling

- 14.1. Understanding Exception and error
- 14.2. Try, catch, throw

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