

# PHP

## PHP Overview

- 1.Evaluation of Php
- 2.Basic Syntax
- 3.Defining variable and constant
- 4.Php Data type
- 5.Operator and Expression

## Handling HTML Forms with PHP

- 1.Creating forms with PHP
- 2.Security Protection from Cross Site Scripting
- 3.Using the form GET method
- 4.Using the form POST method
- 5.Obtaining data from forms through variables
- 6.Using hidden fields
- 7.Secure Web Forms (HTTPS and SSL)
- 8.Calling pages from themselves using forms
- 9.Quoting HTML entities in user input

## Variables and Expressions in PHP

- 1.Identifiers
- 2.Data Types (integers, floats, strings and booleans)
- 3.Type juggling
- 4.Text constants, interpolation (strings, arrays, objects), here documents
- 5.Creating Variables
- 6.Variable assignment
- 7.Variable Scope
- 8.Namespaces
- 9.User-defined Constants
- 10.String constants, variable interpolation into strings
- 11.HTTP environment variables
- 12.Magic Constants
- 13.Variable References

## PHP Operators

- 1.Arithmetic Operators
- 2.Logical Operators
- 3.Relational (Comparison) Operators
- 4.The Identity Operator
- 5.Bitwise Operators
- 6.Error Suppression Operator
- 7.Execution Operators
- 8.Other Operators
- 9.Assignment Operators
- 10.Operator Precedence and Associativity

## Conditional Tests and Events in PHP

- 1.True and False
- 2.If
- 3.Comparing Strings and Numbers
- 4.else and elseif
- 5.The ? : Operator
- 6.Comparing for equality or identity
- 7.The switch / case statement
- 8.Alternative Syntax for Control Structures

## PHP Flow Control

- 1.Loops
- 2.while
- 3.do ... while
- 4.for
- 5.break and continue
- 6.goto
- 7.exit

## PHP Configuration

- 1.The php.ini file
- 2.Module Vs CGI Usage
- 3.register\_globals
- 4.Control of error logging
- 5.Control of resource limits
- 6.Commonly set configurations

- 7.File system security
- 8.PHP4 compatibility in PHP5
- 9.A glance at upcoming PHP6

## PHP Functions

- 1.Purpose of functions
- 2.Built-in functions
- 3.Declaring functions
- 4.Functions Arguments
- 5.Default Arguments
- 6.Arguments – Call by Reference
- 7.Return
- 8.Returning References
- 9.Variable Scope (global vs local)
- 10.Static variables
- 11.Recursion
- 12.include and require
- 13.Variable function calls

## Storing Data in Arrays using PHP

- 1.What are arrays?
- 2.How and when to use arrays
- 3.Indexing arrays, numeric and hashes
- 4.Initialising arrays
- 5.Using foreach
- 6.Add/remove elements from arrays
- 7.One-dimensional arrays
- 8.Multi-dimensional arrays
- 9.References to array elements
- 10.Arrays in forms
- 11.Array operators
- 12.Array related functions

## Database Connectivity with MySql

- 1.Introduction to RDBMS
- 2.Connection with MySql Database
- 3.Performing basic database operation(DML) (Insert, Delete, Update, Select)
- 4.Setting query parameter
- 5.Executing query
- 6.Join (Cross joins, Inner joins, Outer Joins, Self joins.)

## String Manipulation in PHP

1. substring and [] operators
2. Case conversion, trimming
3. Formatting output data
4. Regular expressions

## Sessions and Cookies in PHP

1. What is a session?
2. Dependencies on the php.ini file
3. Understanding PHP session variables
4. Create a PHP session variable
5. Register and modify PHP session variables
6. Putting PHP session IDs in pages
7. Good Practise with sessions and PHP
8. Cookie properties
9. Setting a cookie in PHP
10. Retrieving PHP cookies
11. Expiring/Deleting PHP cookies
12. Drawbacks to cookies
13. Using cookies well
14. Cookie Security Issues

## File and Directory Access Using PHP

1. Opening files, local and remote
2. Reading and writing files
3. PHP portability on different Operating Systems
4. Finding file metadata
5. Handling file permissions
6. Handling file ownership
7. File locking
8. Opening and reading directories
9. File uploads from the browser/user

## Generating Images with PHP

1. Basics of computer Graphics
2. Creating Image
3. Manipulating Image
4. Using text in Image

## Handling Email with PHP

- 1.Sending email
- 2.Sending multi part email – MIME
- 3.Accessing mail boxes – IMAP & PO

## Project

- 1.Work on Real-time project templates.
- 2.Number of real-time projects from clients available for selection.
- 3.Assistance available for the project selection

## CORE PHP

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## Introduction to OOPS

- 1.Introduction
- 2.Objects
- 3.Declaring a class
- 4.The new keyword and constructor
- 5.Destructor
- 6.Access method and properties using \$this variable
- 7.Public ,private, protected properties and methods
- 8.Static properties and method
- 9.Class constant

10. Inheritance & code reusability
11. Polymorphism
12. Parent:: & self:: keyword
13. Instance of operator
14. Abstract method and class
15. Interface
16. Final

## Exception Handling

1. Understanding Exception and error
2. Try, catch, throw

## Live Project

1. FlowChart Development
2. Database design
3. User interface design
4. PHP programming
5. Testing process
6. Project deployment on server