

# GETP

## PHP DEVELOPER

Chapters & Strategies	Topics	
1)	INTRODUCING PHP	<ul style="list-style-type: none"> <li>• The origin of PHP</li> <li>• PHP for Web Development &amp; Web Applications</li> <li>• PHP History</li> <li>• Features of PHP</li> <li>• How PHP works with the Web Server</li> <li>• What is SERVER &amp; how it works</li> <li>• What is ZEND Engine</li> <li>• Work of ZEND Engine</li> </ul>
2)	INSTALLING AND CONFIGURING PHP	<ul style="list-style-type: none"> <li>▪ PHP Installation</li> <li>▪ MySQL Installation</li> <li>▪ Apache Installation</li> <li>▪ WAMP Installation</li> <li>▪ Installing and Configuring PHP on Windows.</li> <li>▪ How to design PHP applications using Dreamweaver</li> <li>▪ How to design PHP applications using IDE</li> </ul>
3)	HTML, CSS & JAVASCRIPT	<ul style="list-style-type: none"> <li>▪ Introduction of HTML</li> <li>▪ Creating basic HTML pages</li> <li>▪ Form Designing with HTML</li> <li>▪ Creating Tables in HTML</li> <li>▪ Working on Frames</li> <li>▪ Introduction of CSS</li> <li>▪ Understanding CSS selectors &amp; properties</li> <li>▪ Creating Inline, Internal, External CSS</li> </ul>

		<ul style="list-style-type: none"> <li>▪ Introduction of JAVASCRIPT</li> <li>▪ Creating variables</li> <li>▪ Working with Data types</li> <li>▪ Working with Arrays</li> <li>▪ Creating &amp; using Functions</li> <li>▪ Creating Client side Validations</li> </ul>
4)	PHP INPUT MECHANISM	<ul style="list-style-type: none"> <li>▪ Form Interpretation</li> <li>▪ Understanding GET, POST, REQUEST</li> <li>▪ MasterChild</li> <li>▪ page concept</li> </ul>
5)	PHP OUTPUT MECHANISM	<ul style="list-style-type: none"> <li>▪ Working with ECHO, PRINT(), PRINTF()</li> <li>▪ MINI TASK ? Integrating HTML with PHP</li> <li>▪ MINI TASK ? Integrating CSS with PHP</li> <li>▪ MINI TASK ? Integrating JAVASCRIPT with PHP</li> </ul>
6)	LANGUAGE BASICS	<ul style="list-style-type: none"> <li>▪ Creating a simple PHP script</li> <li>▪ Naming Variables</li> <li>▪ Assigning and Displaying Variable Values</li> <li>▪ Creating variables</li> <li>▪ Displaying variable values</li> <li>▪ Writing Your First Script That Uses Variables</li> <li>▪ Using Variable Variables</li> <li>▪ Removing Variables</li> <li>▪ Understanding Data Types</li> <li>▪ Assigning data types</li> <li>▪ Type casting</li> <li>▪ Type Juggling</li> <li>▪ Introduction of PHP</li> <li>Keywords</li> <li>Comments</li> </ul>
7)	OPERATORS & EXPRESSIONS	<ul style="list-style-type: none"> <li>▪ Arithmetic, Assignment, Comparison, Logical Operators</li> </ul>

		<ul style="list-style-type: none"> <li>▪ Concatenation, Bitwise, Error Suppression, Increment &amp; Decrement operators</li> </ul>
8)	WORKING WITH FLOW CONTROL THROUGH CONTROL STATEMENT	<ul style="list-style-type: none"> <li>▪ Ternary operator</li> <li>▪ Ifelse</li> <li>▪ Ifelse</li> <li>▪ ladder</li> <li>▪ Ifelseif</li> <li>▪ Switch</li> </ul>
9)	WORKING WITH FLOW CONTROL THROUGH LOOP STATEMENT	<ul style="list-style-type: none"> <li>▪ For</li> <li>▪ While</li> <li>▪ Dowhile</li> <li>▪ Foreach</li> <li>▪ Nesting of Loops</li> </ul>
10)	ARRAY WITH PHP	<ul style="list-style-type: none"> <li>▪ What is an Array?</li> <li>▪ Creating and Working with Arrays</li> <li>▪ Creating arrays</li> <li>▪ Viewing arrays</li> <li>▪ Modifying arrays</li> <li>▪ Removing values from arrays → Sorting Arrays</li> <li>▪ Walking through an Array</li> <li>▪ Traversing an array manually</li> <li>▪ Using foreach to walk through an array</li> <li>▪ Finding Array Size</li> <li>▪ Converting Arrays into Strings (And Vice Versa)</li> <li>▪ Converting Variables into Arrays (And Vice Versa)</li> <li>▪ Splitting and Merging Arrays</li> <li>▪ Exchanging keys and values</li> <li>▪ Multidimensional Arrays</li> <li>▪ Creating multidimensional arrays</li> <li>▪ Viewing multidimensional arrays</li> <li>▪ Using multidimensional arrays in statements</li> <li>▪ Walking through a multidimensional array</li> </ul>

		<ul style="list-style-type: none"> <li>▪ → Builtin PHP Arrays</li> </ul>
11)	USING STRINGS IN PHP	<ul style="list-style-type: none"> <li>▪ Introduction to string</li> <li>▪ .Creating and Working with String</li> <li>▪ Creating string</li> <li>▪ Viewing string</li> <li>▪ Modifying string</li> <li>▪ Introduction of String Function</li> <li>▪ Working with string function</li> </ul>
12)	PHP FUNCTIONS	<ul style="list-style-type: none"> <li>▪ Defining functions</li> <li>▪ Using variables in functions</li> <li>▪ Passing values to a function</li> <li>▪ Nesting of Functions</li> <li>▪ Anonymous Functions</li> <li>▪ Recursion</li> <li>▪ Returning a value from a function</li> <li>▪ Using builtin functions</li> <li>▪ Defining User functions</li> <li>▪ Passing parameter(Call By Value &amp; Call By Reference) &amp; return value</li> <li>▪ Trends of PHP Functions(Missing Parameter, Formal parameter declaration)</li> <li>▪ Importing content of one page into another(include &amp; require)</li> </ul>
13)	FILE HANDLING IN PHP	<ul style="list-style-type: none"> <li>▪ File Streams(Input, Output, Temp)</li> <li>▪ Creating and deleting a file.</li> <li>▪ Reading and writing test files.</li> <li>▪ Checking for existence of file.</li> <li>▪ Determining file size.</li> <li>▪ Opening a file for writing, reading or appending.</li> <li>▪ Writing data to the file.</li> <li>▪ Reading characters. → Checking existence of a file</li> </ul>

		<ul style="list-style-type: none"> <li>▪ Sending the pointer to a particular location in a file</li> <li>▪ Finding the current location of a pointer</li> <li>▪ Check whether file contents end or not</li> <li>▪ Locate the pointer at the beginning of file</li> <li>▪ File locking</li> <li>▪ MINI TASK ? Creating PDF with PHP</li> </ul>
14)	CREATING WEB FEATURES	<ul style="list-style-type: none"> <li>▪ Redirecting users to other pages</li> <li>▪ Creating an Email</li> <li>▪ Sending an Email</li> <li>▪ Configuring Email</li> <li>▪ File Uploading and File Downloading</li> <li>▪ MINI TASK ? Creating a Mail Interface with PHP</li> </ul>
15)	OBJECT ORIENTED PROGRAMMING	<ul style="list-style-type: none"> <li>▪ Introducing Object Oriented Programming</li> <li>▪ Objects and classes</li> <li>▪ Properties &amp; Methods</li> <li>▪ Object oriented concepts PHP</li> <li>▪ Encapsulation</li> <li>▪ Inheritance(Single, Multilevel, Multiple, Hybrid, Hierarchical)</li> <li>▪ Developing an Object Oriented Program</li> <li>▪ Selecting properties and methods for each object</li> <li>▪ Defining a Class</li> <li>▪ Using \$this</li> <li>▪ Adding methods</li> <li>▪ Destroying Objects</li> <li>▪ Constructor &amp; Destructor</li> <li>▪ Final Class</li> <li>▪ Using Access Specifiers (public, private &amp; protected)</li> <li>▪ Polymorphism(Over Loading &amp; Over Riding)</li> <li>▪ Abstraction</li> <li>▪ Abstract Class</li> <li>▪ Interface</li> </ul>

		<ul style="list-style-type: none"> <li>▪ Traits</li> <li>▪ Magic Methods</li> <li>▪ MINI TASK ? Creating a OOPs based simple PHP Application</li> </ul>
16)	ERROR & EXCEPTION HANDLING	<ul style="list-style-type: none"> <li>▪ Introduction to Errors</li> <li>▪ Types of Errors</li> <li>▪ Introduction to Exception handling</li> <li>▪ Using Try/catch/throw</li> <li>▪ Checked &amp; Unchecked Exception</li> <li>▪ Creating Custom exception</li> <li>▪ MINI TASK ? Creating an Exception Handling Panel</li> </ul>
17)	CREATING SECURITY USING PHP	<ul style="list-style-type: none"> <li>• Introduction to ENCRYPTION</li> <li>• Encrypting Functions</li> <li>• Key Encryption</li> <li>• Creating Header</li> <li>• Authentication</li> <li>• HTTP Authentication</li> <li>• MINI TASK ? Create a secure web page</li> </ul>
18)	REGULAR EXPRESSION	<ul style="list-style-type: none"> <li>• Introduction to Regular Expression</li> <li>• preg &amp; ereg functions</li> <li>• Email validation</li> <li>• String pattern matching</li> <li>• PCRE expression</li> <li>• POSIX expression</li> <li>• MINI TASK ? Creating searching or validation programs</li> </ul>
19)	DATABASE MANAGEMENT (MySQL)	<ul style="list-style-type: none"> <li>• Introduction to DBMS</li> <li>• DBMS Vs RDBMS</li> <li>• Keys</li> <li>• Normalization</li> <li>• DML , DDL, DCL</li> </ul>

- Introduction to MySQL.
- Database Engines in MySQL.
- Performing dynamic functions using MySQL
- Using MySQL on the Web
- Adding tables to a database
- Creating a table
- Connecting to a database server
- Using Database Queries for accessing & manipulating data from database
- Opening Database Connection/closing database connection
- Select/Insert/delete & Update Database from forms
- Database Functions
- Joins
- Constraints
- Triggers
- SQL Injections
- Prevention of SQL Injections
- MINI TASK ? Creating Registration form
- MINI TASK ? Creating Login & Profile page
- MINI TASK ? Creating Update & Delete page
- MINI TASK ? Creating SQL Injection prevention PHP script

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STATE MANAGEMENT

- Introduction to Query Strings
- Working with Query Strings
- Receiving data from Query Strings
- MINI TASK ? Fetching Data from Database by Query String
- Introduction to COOKIES
- Creating Cookies
- Using Cookies

		<ul style="list-style-type: none"> <li>▪ MINI TASK ? Creating Cookie based authentication module</li> <li>▪ Introduction to Session</li> <li>▪ Starting a Session.</li> <li>▪ Working with Session variables.</li> <li>▪ Destroying session</li> <li>▪ Passing Session Ids</li> <li>▪ MINI TASK ? Creating a session based Login form</li> </ul>
21 )	Ajax	<ul style="list-style-type: none"> <li>• Introduction to AJAX</li> <li>• Understanding XML HTTP REQUEST object</li> <li>• Working with Ajax functions</li> <li>• Integrating AJAX with HTML</li> <li>• Integrating AJAX with PHP</li> <li>• MINI TASK ? Fetching data from database using Ajax</li> </ul>
22)	PAYMENT GATEWAY INTEGRATION	<ul style="list-style-type: none"> <li>• Introduction to Payment Gateways</li> <li>• How to integrate Payment Gateway with PHP application</li> <li>• MINI TASK ? Integrating Dummy Payment Gateway</li> </ul>
23)	WEB SERVICES IN PHP	<ul style="list-style-type: none"> <li>▪ Introduction to Web Services</li> <li>▪ Introduction to XML</li> <li>▪ Creating XML pages</li> <li>▪ Introduction to JSON</li> <li>▪ Creating JSON data</li> <li>▪ Creating SOAP based Web Service →</li> <li>▪ Consuming SOAP based Web Service</li> <li>▪ Creating REST based Web Service</li> <li>▪ Consuming REST based Web Service</li> </ul>



		<ul style="list-style-type: none"> <li>▪ MINI TASK ? Database manipulation using Web Services</li> </ul>
24 )	GRAPHICS IN PHP	<ul style="list-style-type: none"> <li>• Introduction to Graphics</li> <li>• Understanding GD Library →</li> <li>• Creating Graphics</li> <li>• Working on Image Manipulation Functions</li> <li>• Inserting Text inside Images</li> <li>• Crop, Resize, Blur, Border, Copy Images</li> <li>• MINI TASK ? Creating Image manipulation program using GD Library</li> </ul>
25)	CODE IGNITER (Frame work)	<ul style="list-style-type: none"> <li>• Introduction to Code Igniter</li> <li>• Introduction to MVC</li> <li>• Installing Code Igniter</li> <li>• Creating Controller, View, Models</li> <li>• URL Routing, Hooks</li> <li>• Redirecting control</li> <li>• Configuring with Database</li> <li>• Creating Html forms</li> <li>• Using JavaScript with Code Igniter</li> <li>• Creating Validations with Code Igniter</li> <li>• Integrating Ajax with Code Igniter</li> <li>• Integrating HTML template in Code Igniter</li> <li>• CRUD implementation in Code Igniter</li> <li>• Working with Session</li> <li>• Developing Plugin with Code Igniter</li> </ul>
26)	CAKE PHP (Frame work)	<ul style="list-style-type: none"> <li>• Introduction to CakePHP</li> <li>• Introduction to MVC</li> <li>• Installing CakePHP</li> <li>• Creating Controller, View, Models</li> <li>• URL Routing, Scaffolding</li> </ul>

		<ul style="list-style-type: none"> <li>• Redirecting control</li> <li>• Configuring with Database</li> <li>• Creating Html forms</li> <li>• Using JavaScript with CakePHP</li> <li>• Integrating Ajax with CakePHP</li> <li>• Creating Validation with CakePHP</li> <li>• Integrating HTML template in CakePHP</li> <li>• CRUD implementation in CakePHP</li> <li>• Working with Session</li> <li>• Developing Plugin with CakePHP</li> </ul>
27)	JOOMLA (CMS)	<ul style="list-style-type: none"> <li>• Joomla installation</li> <li>• Working with Article Manager, Category Manager, Menu Manager</li> <li>• Working with Template Manager , User Manager, Module Manager</li> <li>• Working with the Extension Manager Media Manager, GlobaConfiguration</li> <li>• Working with inbuilt Componen? Customization inbuilt Components and Modules</li> <li>• Using External plugin in joomla website</li> <li>• Converting HTML template in joomla theme</li> <li>• Creating user defined modules</li> <li>• Creating user defined components</li> </ul>
28)	WORDPRESS (CMS)	<ul style="list-style-type: none"> <li>• Introduction to Wordpress</li> <li>• Wordpress installation</li> <li>• Working with post, media, pages, comments</li> <li>• Working with appearance ,user, tools, setting</li> <li>• Working with plugin in Wordpress website</li> </ul>

	<ul style="list-style-type: none"><li>• Using external plugin in wordpress website</li><li>• Working with widgets in Wordpress</li><li>• Converting Html template to Wordpress theme</li><li>• CRUD operation using database in Wordpress</li><li>• Creating user defined plugins in Wordpress</li><li>• Creating user defined widgets in Wordpress</li></ul>
29)	<p>DRUPAL (CMS)</p> <ul style="list-style-type: none"><li>• Introduction to Drupal</li><li>• Drupal installation</li><li>• Working with content, structure, Appearance, people</li><li>• Working with module , configuration, report</li><li>• Creating user define modules in Drupal website</li><li>• Working with the theme in Drupal website</li><li>• Converting html theme in to Drupal website theme</li><li>• CRUD operation based user module</li><li>• Creating administrator module in Drupal website</li></ul>