Winapps

Unlocking Career Opportunities through World-Class Professional Tech Training

> **Boost your career with professional training.**

About Winapps Software Solutions Pvt.ltd.

Founded in 2013, Winapps provides IT solutions specially- tailored to its customers' needs, with a focus CRM Implementation, ERP implementation, web and mobile development. We bring security and integrity to the development process, efficiently blending our assets with your existing structure. We love to code; set your business process and we know how to do it right. Our approach, which combines innovation with timely delivery, is perfectly attuned to our clients' goals. Independent from the dynamism and complexity of business requirements, our vast, collective experience and comprehensive solutions library allow us to build cost- effective programming teams and set realistic budgets.

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Professional PHP Course

(4-6 Months)

PHP (Hypertext Preprocessor) is a popular open-source server-side scripting language designed for web development. It is widely used for creating dynamic and interactive web pages. PHP can be embedded into HTML and is compatible with a variety of databases, making it a versatile tool for building web applications.

PHP Basics:

1. Variables and Data Types
2. Constants
3. Operators: Arithmetic, Comparison, Logical, Assignment
4. Control Structures: if, if-else, switch-case
5. Loops: for, while, do-while, foreach
6. PHP Functions: Built-in and User-defined
7. Error Handling

Working With Forms

- Creating HTML Forms
- GET vs. POST Methods
- Handling Form Data in PHP
- Form Validation and Sanitization
- File Uploading

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PHP And Databases

PHP and databases work together to create dynamic, data-driven web applications. A database is a structured collection of data, and PHP provides built-in functions to interact with databases like MySQL, SQLite, and others. This interaction allows web applications to store, retrieve, update, and delete data efficiently.

Why Use a Database with PHP?

- ❖ **Data Storage:** Databases are used to store information such as user profiles, product details, and website content.

- ❖ **Dynamic Content:** Using PHP, developers can fetch data from a database and display it dynamically on a webpage.

- ❖ **CRUD Operations:** PHP allows you to perform essential database operations like Create, Read, Update, and Delete (CRUD).

- Introduction to MySQL
- Connecting PHP with MySQL
- CRUD Operations

- Prepared Statements and SQL Injection Prevention
- Handling Database Errors

PHP Arrays

An **array** in PHP is a data structure that allows you to store multiple values in a single variable. These values can be accessed, manipulated, and organized using array keys (for associative arrays) or indexes (for indexed arrays).

- Indexed Arrays
- Associative Arrays
- Multidimensional Arrays
- Array Functions: sort, merge, push, pop, etc.

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PHP Strings

PHP Strings are sequences of characters used to store and manipulate text in PHP. Strings are a fundamental data type, allowing developers to perform operations like concatenation, searching, and formatting.

Topics:

1. Creating and Declaring Strings
   - Single Quotes vs Double Quotes
   - Escaping Characters
2. String Manipulation Functions
   - strlen(), str_word_count(), strrev()
   - strpos(), substr(), str_replace()
   - trim(), strtoupper(), strtolower()
   - explode() and implode()
3. String Formatting
   - printf() and sprintf()
   - String interpolation
4. Regular Expressions in Strings
   - preg_match(), preg_replace()
5. Encoding and Decoding
   - base64_encode(), base64_decode()
   - htmlentities(), htmlspecialchars()

PHP Functions

PHP Functions are reusable blocks of code that perform a specific task. Functions help improve code modularity and reusability, enabling developers to write cleaner and more organized programs.

Topics:

1. Introduction to Functions
    o Built-in Functions vs User-Defined Functions
2. Creating and Calling Functions
    o Function Syntax
    o Passing Parameters to Functions
    o Returning Values from Functions
3. Variable Scope
    o Local, Global, and Static Variables
4. Parameter Types
    o Default Parameters
    o Passing by Value vs Reference
5. Anonymous Functions (Closures)
6. Recursive Functions
7. Commonly Used Built-in Functions
    o Array Functions: array_merge(), array_map()
    o String Functions: strlen(), str_replace()
    o Date/Time Functions: date(), strtotime()
8. Error Handling in Functions
    o Using try-catch with functions
    o Triggering errors with trigger_error()

MVC Pattern

The **Model-View-Controller (MVC)** pattern is a software architectural design used for developing web applications. It separates the application logic (Model), user interface (View), and user input handling (Controller), making the code more organized, reusable, and scalable.

Topics:

1. Introduction to MVC
   - Importance of Design Patterns in Web Development
   - Benefits of Using MVC
2. Components of MVC
   - **Model**: Handles data and database operations
   - **View**: Manages the presentation layer (UI)
   - **Controller**: Processes user input and updates Model/View
3. Working Flow of MVC
   - Data flow between Model, View, and Controller
   - User request handling
4. Implementing MVC in PHP
   - Setting up a basic folder structure for MVC
   - Creating a simple MVC application
5. Real-World Examples of MVC Frameworks
   - Laravel, CodeIgniter, Symfony
6. Advantages of MVC in PHP Development
   - Code separation and modularity
   - Easier debugging and maintenance

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PHP Sessions and Cookies

Sessions

A **session** in PHP is a way to store data across multiple web pages on the server side for individual users. Session data is accessible only as long as the user is active on the website or until the session expires. Sessions are ideal for storing sensitive or temporary information, such as user authentication details or shopping cart data.

Cookies

A **cookie** is a small piece of data stored on the client's browser. Cookies allow websites to remember user information between visits, such as preferences, login status, or items in a shopping cart. They are used for tracking and maintaining user-specific information.

- Introduction to Sessions
- Creating and Managing Sessions
- Using Cookies for Data Storage
- Session vs. Cookie

Working With APIs

An **API** (Application Programming Interface) is a set of rules and protocols that allows software applications to communicate with each other. In PHP, working with APIs typically involves sending HTTP requests to a web server, consuming the server's responses (usually in JSON or XML format), and integrating the data or functionality into your application.

- Introduction to RESTful APIs
- Consuming APIs using `curl`
- Sending JSON Responses

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PHP Frameworks

A **PHP Framework** is a pre-built collection of tools, libraries, and best practices designed to streamline and simplify the development of web applications in PHP. Frameworks provide a structured way to build applications by promoting code reuse, modular design, and adherence to development standards.

Popular PHP Frameworks:

1. **Laravel:**
   - o Features: Elegant syntax, Eloquent ORM, Blade templating engine, and built-in authentication.
   - o Use Case: Full-stack web applications, RESTful APIs, and large-scale projects.
2. **Symfony:**
   - o Features: Highly flexible, reusable components, and robust architecture.
   - o Use Case: Enterprise-level projects and applications requiring fine-grained control.
3. **CodeIgniter:**
   - o Features: Lightweight, simple to learn, and excellent performance.
   - o Use Case: Small-to-medium-sized web applications.
4. **CakePHP:**
   - o Features: Convention-over-configuration approach, scaffolding, and rapid development.
   - o Use Case: Applications with strict time constraints.

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Why Winapps?

Industry Experience:

Winapps possesses huge experience in IT with different streams like education, E-commerce, banking, tourism, mortgage, real estate, insurance, medical, and health etc.

Certified Professional:

We have experts in-house as Certified Android developer, Certified iOS Developer, Certified Web Developer (PHP), Certified Mean/Mern stack Developer, Certified Networking engineer (CCNA), Certified QA tester, Certified
Software engineer, Certified flutter Developer, Certified React Native Developer, Certified ASP.net Developer, Certified UX/UX Designer. Certified backend database developer.

Trust and Transparency:

We have a proven track record of serving 500+ customers with security as a paramount and high touch communication. Extensive experience in end-to-end Implementations, Integrations, Support & Maintenance as Quality Service & Delivery is the primary focus. As well as the we have been providing the training to the candidates with a surety of job within and in the other MNCs.

If you would like to move forward with our proposal, please send me an email so we can begin discussing and planning the next steps right away. I will follow up with you through email next
Thank you kindly for reviewing our proposal. If you have additional questions, I am available by **info@winapps.info** or by phone at- **7015796830**

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Foundation

Here's how you get started

Skill Development

Deepen your knowledge through structured training,

Lead in the Real World

Apply everything you've learned to real scenarios, collaborate, solve problems, and step into the industry with assurance.