

## **LEVEL 1: PHP Fundamentals**

**Goal:** Strong core understanding

- What is PHP (server-side scripting, use cases)
  - PHP installation & configuration (XAMPP/WAMP)
  - PHP tags, syntax rules
  - echo vs print
  - Comments
  - Variables & constants
  - Data types
    - string, int, float, bool, null
  - Type casting
  - Operators (basic)
  - Output formatting
  - PHP configuration basics (php.ini)
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## **LEVEL 2: Control Flow & Arrays**

**Goal:** Logic building

- Operators
    - arithmetic, assignment, comparison, logical
  - Conditional statements
    - if, else, elseif, switch
  - Loops
    - for, while, do-while, foreach
  - Break & continue
  - Arrays
    - indexed
    - associative
    - multidimensional
  - Array functions
    - count, sort, array\_push, array\_merge
  - Debugging basics
    - var\_dump, print\_r
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## **LEVEL 3: Functions & Strings**

**Goal:** Reusability & clean code

- User-defined functions
- Built-in functions
- Function arguments
  - default, variable length
- Return values

- Scope
    - local, global, static
  - String functions
    - strlen, substr, strpos
    - explode, implode
    - trim, strtolower, strtoupper
  - Date & time functions
  - Include & require
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#### **LEVEL 4: Forms, Files & Sessions**

**Goal:** Real-world web usage

- Form handling
    - GET vs POST
  - Input validation
  - Input sanitization
  - File handling
    - fopen, fread, fwrite, fclose
  - File upload handling
  - Cookies
    - create, read, delete
  - Sessions
    - session\_start, session\_destroy
  - Basic authentication logic
  - Header redirects
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#### **LEVEL 5: PHP & Database (MySQL)**

**Goal:** Data-driven applications

- MySQL basics
  - PHP-MySQL connection (PDO)
  - CRUD operations
  - Prepared statements
  - SQL injection prevention
  - Error handling (try-catch)
  - Pagination logic
  - Search & filtering logic
  - Password hashing (password\_hash, password\_verify)
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#### **LEVEL 6: Advanced PHP (Professional Level)**

**Goal:** Industry-grade PHP skills

- Object-Oriented Programming

- classes & objects
  - inheritance
  - polymorphism
  - encapsulation
- Namespaces
- Autoloading (PSR-4 concept)
- PHP 7/8 features
  - type declarations
  - null coalescing
  - match expression
- Error & exception handling
- Security best practices
  - CSRF
  - XSS prevention
- JSON handling
- Basic REST concept (PHP only)
- PHP performance basics

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