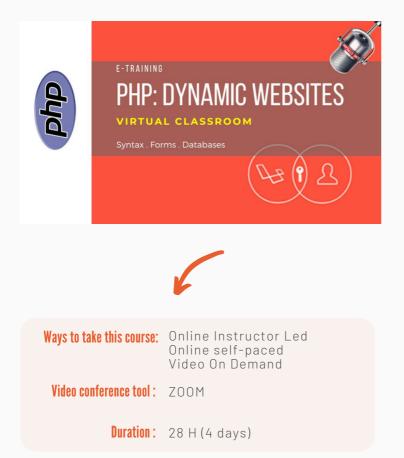# Module: Creating dynamic PHP web applications

In this training, you will learn to program in PHP and to create dynamic web applications connected to data: syntax, functions, retrieving and validating entries, linking PHP to SQL databases, managing persistence and authentication, understanding and use object-oriented programming.

Prerequisites : HTML5 language, SQL language and databases, Javascript language.

E - TRAINING

PHP: DYNAMIC WEBSITES

VIRTUAL CLASSROOM

Syntax . Forms . Databases

Ways to take this course: Online Instructor Led
Online self-paced
Video On Demand

Video conference tool : ZOOM

Duration : 28 H (4 days)

OUTLINE

PHP - introduction, tools, code

Presentation
Summary and methodology
Download Media
Client-server mechanism
Web languages
PHP / MySQL platform
Tools for development
Install XAMPP on Windows
Test the XAMPP environment
Start my first PHP page
Lab: Create a PHP page

Master PHP syntax

Create and use constants
Variables, types and conversion
Predefined functions
Lab: Variables and types
Create and use arrays
Array functions
Lab: Arrays by doing
Operators in PHP
Alternative structures
While and do while loops
For and foreach loops
Lab: loops

Know how to create functions

Create and use a function
Lab: Creating and using a function
The scope of variables
Functions parameters
Functions returning multiple values
PHP 7 features

How to retrieve and validate entries

HTML5 forms
Retrieve entries: example
Anatomy of an HTTP request
From page to page
Environment variables
Lab: Retrieve entries on the page
Introduction to regular expressions
Validate forms

Module: Creating dynamic PHP web applications

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OUTLINE

Bind PHP to SQL data(I)

Introduction to Databases
SQL Language Guide. PHP APIs for MySQL
Display database data. Connection and recordsets
Create a detail page. Perform search by keyword
Multi-criteria search. Edit database data
The update form. Perform the update
Delete data implementation
Confirm before deleting. Multiple deletion
Insert data into a table
Insert into multiple tables
Lab: Bookstore lab

PHP Persistence and Authentication

The persistence of information
Cookies in PHP
Using Sessions in PHP
Configuring Sessions
Authentication and Authorization
Forms Authentication
Create the users table
Authenticate: implementation
HTTP Authentication
Protect pages
Lab: managing authentication

Object-oriented programming

Objects and classes
Inheritance and polymorphism
PHP and OOP: example
Data encapsulation
Constructor concept
PHP and inheritance
Other concepts of OOP
handling exceptions
Custom exceptions
Lab: Sending Emails in OOP

PDO - bind PHP to SQL data (II)

Data Access Layers
PDO classes and methods
Display and update data
Using prepared statements
PDO and stored Procedures
Create transactions
Paginate data
Lab: using PDO