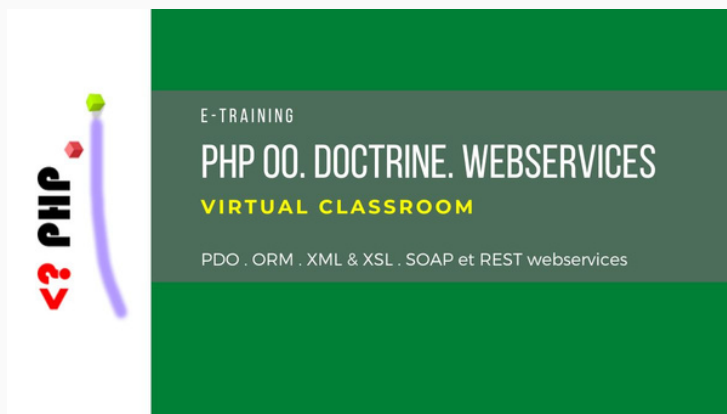


Module: Advanced PHP, Doctrine and Web Services

Want to learn more about PHP? This training teaches you how to create object-oriented PHP applications using specialized libraries and Web services: master OO syntax, implement MVC, use PDO and Doctrine ORM, XML/XSL and server transformations, create and consume SOAP and REST Web services, using Ajax, secure and optimize your application.

Prerequisites : OOP Concepts, use PHP language.



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

Video conference tool: ZOOM

Duration: 35 H (5 days)

OUTLINE

PHP language

PHP: versions, execution modes
Install. Debuggers. Extensions
Tools: IDE, unit tests, bugs
Types. Arrays. Functions
Regular expressions
HTTP headers. Cookies. Sessions

Object-oriented PHP

Classes. Objects. Attributes. Methods
Constructor. Destructor
Encapsulation. Inheritance. Polymorphism
Composition. Aggregation. Using UML
Abstract classes, final classes
Interfaces. Iterators. Serialization
Exception handling
Weak Map classes. Stringable Interface
str_contains(), starts_with(), ends_with()
New DOM Access APIs
Namespaces. PHPDoc

Doctrine ORM

Entity classes
Configuration files. Annotations. CLI Mode
Database generation. Object/relational mapping
Entity Manager. Entity repository. Generating queries
Mapping on existing database
Lazy loading and associations

MVC design

Separate attributions between scripts
Model and data layer
Role of the controller
Role of the views
Routing in MVC
Symfony: MVC Framework

XML - RSS

XML: creation
DTD and schema validation
XSL by doing
SimpleText, SAX and DOM APIs
Performing XSLT transformations
Create / consume an RSS feed

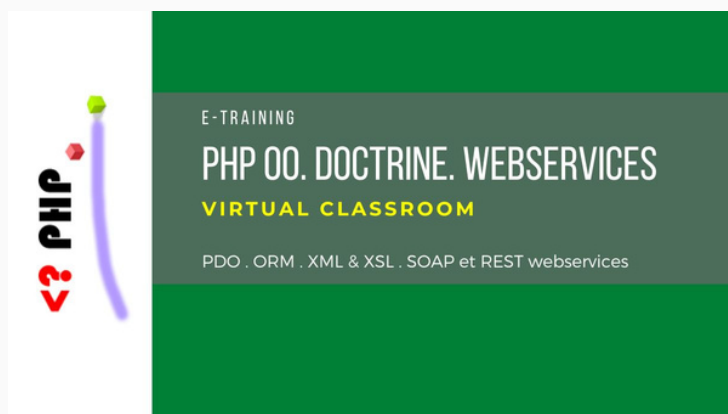
PHP and data: PDO, LDAP

PDO connection
Get/Update Data
Transactions and Prepared statements
PDO and Stored Procedures
LDAP: presentation. OpenLDAP API functions
LDAP connection. LDAP entries
LDAP directory: read data

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OUTLINE

PHP and web services

- Introduction to Web Services
- SOAP plugin
- SoapServer and SoapClient
- Testing a SAOP service
- Handling JSON in PHP
- Writing a REST Web Service
- Postman: testing the REST service
- Lab: writing a REST API

PHP and AJAX

- L'XMLHttpRequest object
- responseText and responseXML
- GET and POST requests
- Retrieve data from a database
- Usage examples

Securing and optimizing an application

- Validate data
- Programming a captcha
- SQL and command injections
- XSS attacks
- Secure cookies, sessions
- Securing the PHP server
- Configuring MySQL
- APC opCode Optimization

Other applications

- Generate graphs with JpGraph
- FPDF library
- PHP and messaging
- Coding Best Practices