

Hands-on course , 3
day(s)
Ref : PHA

Pre-requisites

Good knowledge of PHP 5
language in Web's context.

Next sessions

PHP 5, Advanced Programming OOP and advanced functions

OBJECTIVES

Object Programming will provide you with an MVC approach for on-line applications. You will learn to use components in a framework and to implement communication with external processes. Exposure to the new prospects offered by Web 2.0 is also covered.

[1\) Object-Oriented Programming \(OOP\)](#)

[2\) Handling errors](#)

[3\) E-mail](#)

[4\) LDAP authentication](#)

[5\) Databases](#)

[6\) XML and Web Services](#)

[7\) PDF for AcrobatReader](#)

[8\) Interprocess communication](#)

[9\) HTTPS, SSL and certificates](#)

[10\) Maintenance](#)

1) Object-Oriented Programming (OOP)

- Classes, properties, methods. UML approach.
- Inheritance and aggregation. Polymorphism.
- Interfacing, overloading. Practical application.

Workshop

Implementing n-tier MVC architecture. Defining a DAO interface and implementing DAO classes.

2) Handling errors

- Creating a handler. Buffering and log files.

Workshop

Creating an advanced error handling class, a buffered display and a log file.

3) E-mail

- MIME. Mixed, Multipart, Alternative/Related.
- IMAP/POP. Connecting to the server. Analysing and processing messages.

Workshop

Creating an xMail class function.

4) LDAP authentication

- Introduction. OpenLDAP. Configuration and start-up.
- Reading. Anonymous connection, interrogating and retrieving data. Writing. Administrator connection.

Workshop

Implementing an authentication class.

5) Databases

- Connection. Simple, multiple, permanent.
- Analysing the request. Validation mode and errors.
- Commit/Rollback. Connection mode incidence.
- Retrieving sets of records. Stored procedures.

Workshop

Implementation in the DAO class.

6) XML and Web Services

- XML. Format and validation. DOM and Xpath.
- XSL transformers. XSL/XSLT.
- Rich clients: SWF and Ajax. Introduction and issues.
- Web Services and SOAP: Introduction. Directory of services and accessibility. WSDL and SOAP.

Workshop

Creating an RSS flow. Presentation of Ajax RSS readers. Creating a Web Service.

7) PDF for AcrobatReader

- Basic operations. Text, images and vector traces.
- Advanced options. Hyperlinks, signets and notes.

Workshop

Implementing a PDF class.

8) Interprocess communication

- COM and RPC APIs. Opening, executing and controlling an external application. Sockets.
- Printer control. Standard parameter setting.

Workshop

Exporting data towards a spreadsheet. Implementing a method of direct access to an SMTP server.

9) HTTPS, SSL and certificates

- Introduction. Secured transactions. Server parameters. Certificate suppliers.

10) Maintenance

- Data compression. Reading/writing in streaming.
- FTP. Protocol and connection. Basic operations.

Workshop

Site maintenance. Compressing and transferring archives.