PHP 5, Advanced Programming

Hands-on course of 3 days - 21h
Ref.: PHA - Price 2025: 2 120 (excl. taxes)

An introduction centred on OOP will provide you with an MVC approach for on-line applications. The presentation of components in a framework and communication with external processes will make you understand the strategic issues related to a more logical approach to developing Internet applications, of which Web sites are only one aspect. Exposure to the new prospects offered by Web 2.0 is also covered through an introduction to the AJAX standard, and by using rich clients communicating in XML flows with the server.

THE PROGRAMME

last updated: 05/2024

1) Object-Oriented Programming (OOP)

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

Hands-on work : Implementing n-tier MVC architecture. Defining a DAO interface and implementing DAO classes.

2) Handling errors

- Creating a handler. Buffering and log files.

Hands-on work : 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.

Hands-on work : Creating an xMail class function.

4) LDAP authentication

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

Hands-on work : 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.

Hands-on work : 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.
Hands-on work : 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.
Hands-on work : Implementing a PDF class.

8) Interprocess communication
- COM and RPC APIs. Opening, executing and controlling an external application. Sockets.
- Printer control. Standard parameter setting.
Hands-on work : 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.
Hands-on work : Site maintenance. Compressing and transferring archives.

DATES

REMOTE CLASS
2025 : 10 sept., 17 déc.