

Advanced Web Developer (PHP, JS) (code: LC-PHP-S)

Overview

This course is designed for those who:

- have already an medium degree of expertise in web-based development,
- want to increase their qualifications or find a better job,
- are curious about the current trends and current advanced technologies.

All classes take place in computer labs and are workshops, in accordance with our motto: *You can see theory best in practice.*

Duration

48h

Agenda

The course is divided into four modules, which are also offered as a separate trainings.

I. Object-oriented programming in PHP, for example Zend Framework

1. Conventions and organization of the program
 - Navigating the ZF code
 - Naming conventions, the distribution to packets
 - Organization of a typical application, configuration of the IDE (Netbeans example)
 - Include_path, use of Zend_Loader
 - Necessary design patterns:
 - Strategy, Template Method,
 - Facade,
 - Singleton
 - Registry,
 - Lazy Instantiation,
 - Method Chaining
2. Object handling of a database
 - Classes embedded in ZF:
 - Zend_Db,
 - Zend_Db_Statement,
 - Zend_Db_Select,
 - Zend_Db_Table
 - Organizing your own code: model repository
 - Necessary design patterns:
 - Data Access Object
 - DTO,
 - Table Gateway
3. Model View Controller
 - MVC architecture map: the place and role of all elements,
 - Necessary design patterns:
 - Front Controller
 - View Helper,
 - Composite View,
 - Code modularization
 - Request life cycle:

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- Routing,
- Dispatching,
- Request and Response objects
- Routing configuration, creating your own router
- Action controllers, action helpers
- Layer view:
 - View,
 - Layout,
 - View Helpers; including url, partial and placeholder

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II. Databases

1. Optimizing queries
 - Reading query plans (Postgresql example)
 - Different types of filters and joins, costs
 - Statistics
2. Procedural languages in databases (MySQL and PostgreSQL)
 - Control statements
 - Exceptions
 - Types and variables
 - Cursors, iteration on results
3. Native XML database (eXist example)
 - XPath language
 - XQuery language
 - Areas of application of relational and XML databases

III. Ajax

1. Quick course in JavaScript for programmers (focused on the fundamental differences between JS and other languages
 - Literals and unusual literals (object, regexp)
 - Static and dynamic-range, hosting,
 - Closures,
 - Range of references *this* issue, the practical problems
 - Basic JS performance issues, differences in performance of different implementations,
 - Object model:
 - Object oriented model based on prototypes,
 - Prototypes-constructors chain,
 - Static,
 - Privacy,
2. Object Model of a document and a browser
 - DOM, DHTML methods,
 - Ajax: XMLHttpRequest from the inside, model synchronous and asynchronous
3. A typical architecture, libraries
 - Functional Programming, JQuery and Prototype,
 - Visual effects,
 - Observer pattern with closures, client-side MVC
 - XML and JSON services,
 - Component libraries on YUI3 example

IV. Flash / ActionScript 3

1. AS3 Language
 - AS3 as a dialect of ECMAScript
 - Object model: packages, classes, visibility
 - Ranges, pseudo-variable *this*,
 - Anonymous functions

- Properties: getters and setters
 - IEventDispatcher
 - XML for ECMAScript
2. Flash Platform API
- Create graphics
 - Animation,
 - HTTP request,
 - Loading external resources and embedding resources in the swf file,
 - Integration with the browser; javascript bridge.
3. Flex
- A look at the Flex platform,
 - MXML.

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Target audience and prerequisites

This course is designed for all Web Developers with at least intermediate degree of expertise. The necessary skills are: a good knowledge of SQL and PHP and at least a basic familiarity with object-oriented programming, basic knowledge of administration of any chosen system database.

In course program terms, this training is a continuation of our Web Application Developer course.

Certificates

Course participants receive completion certificates signed by ALX.

Locations

- Warsaw (English) – Jasna 14/16A
- Online (English) – your home, office or wherever you want
- any other location (London, UK, EU) on request

Price

1190 EUR

The price includes:

- course materials,
- snacks, coffee, tea and soft drinks,
- course completion certificate,
- one-time consultation with the instructor after course completion.

Additional info

We are very concerned about the level of classes and full participation of all students; we encourage, in case of any doubts as to meeting the requirements of the course, discussing them with the lecturer or contacting our office.