



NoSQL with MongoDB & Doctrine 2

Duration: 3 days - 21 hours

Price : 1 490€ / person

Code: DOC2C2

GOALS

During three days, you will learn how to leverage the power of MongoDB databases thanks to PHP and Doctrine 2.

PRE-REQUISITES: Mastering PHP 5.3 & Object Oriented Programming

PUBLIC: PHP Developers

FULL PROGRAM

INTRODUCTION TO MONGODB

- Discovering the NoSQL movement
- Installing MongoDB on Windows, Mac OS X and Linux
- Introduction to MongoDB supported features
- Creating a basic MongoDB database
- Inserting, updating, deleting and searching data from MongoDB

MANAGING A MONGODB DATABASE FROM A PHP HIGH-LEVEL API

- Discovering the PHP Mongo API
- Connecting to a MongoDB database
- Defining collections in the database
- Inserting documents in a collection
- Finding documents from a collection
- Updating documents in a collection
- Deleting documents from a collection
- Executing queries on a MongoDB database
- Limiting a document result set with criterias

INTRODUCTION TO DOCTRINE 2 ODM

- Discovering the Doctrine2 ODM library
- Installing Doctrine2 (Git and PEAR)
- Discovering database abstraction principles
- Opening a connection on a MongoDB database
- Introduction to the class vs collection mapping principle

DEFINING A DATA MODEL FOR MONGODB DOCUMENTS WITH DOCTRINE 2

- Creating PHP annotated classes with DocBlock comments
- Defining a MongoDB document primary key
- Constraining MongoDB document attributes
- Defining relations between document model classes
- Defining embedded relations between document model classes
- Defining indexes on specific MongoDB document properties

MANAGING DOCUMENT MODEL OBJECTS WITH DOCTRINE 2

- Serializing and persisting PHP objects to MongoDB
- Deleting a document from a collection
- Detaching a MongoDB document
- Merging MongoDB documents
- Establishing references between documents
- Deleting references that link documents with each other

QUERYING A MONGODB DATABASE WITH DOCTRINE 2

- Finding a document with its primary key
- Finding documents according to a criteria
- Creating and querying a MongoDB documents repository
- Creating, initializing and executing custom MongoDB queries
- Sorting a result set according to a criteria
- Limiting the number of documents in a result set
- Applying arithmetics operations on a result set
- Realizing atomic updates and deletions

STORING BINARY FILES IN A MONGODB DATABASE WITH MONGOGRIDFS

- Discovering the MongoGridFS API
- Defining MongoDB storage classes for files to save
- Inserting a file contents in a MongoDB document object
- Finding a file with its primary key or criteria