

Java Training: Data the MVC Way with ORM (JADV, 4 jours)

Description

The course Data the MVC Way with ORM (Java Training) :: introduces Java programmers to the Model-View-Controller architectural pattern. Starting with an overview of distributed enterprise development, the content follows with object-oriented development best practices and application. The focus then switches to a exploration of the Java Class Library that naturally leads to a deeper understanding of data manipulation using Java.

Tarifs

- Tarification: \$3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

Java Programming

The Application Tiers: 1, 2 and 3-tiered applications
Distributed Applications: Technology and Infrastructure
Web Applications: Technology and Infrastructure.
The Java Platform
Packages and Files

Object Oriented Java

The RUP and OOD
Proper Coding
Using Classes
Creating Classes
Class Properties
Object Methods
Constructors
Destructors
Static Data
A complete Object example

Inheritance and Polymorphism

Inheritance
Polymorphism
Abstract Functions and Classes
Interfaces
Common Java Inheritance Examples

Working with Reference Types

Casting and Conversions
Traditional C-Style Casting
The instanceof Operator
Value Types and their equivalent Reference Types
Reflection

Collections

Overview of Collections
Standard Collection Classes
Generics Overview

Using Common Generics

Creating Generic Classes

Performance Considerations with Generics

Exception Handling

Exception Handling Overview

Exceptions and Errors

Exception Handling

Implementing try .. catch

Throwing Exceptions

Declaring Function Exceptions

Events

Events Overview

The Event process

The Event Object

The Listener Interface

Adding Listener Support to the Source Object

Firing the Event

Design Patterns

Design Patterns Overview

Utility Classes

Class Factory

Singleton Pattern

Files and Streams

File IO Overview

Directory Operations

Physical File Operations

File Read and Write Operations

Opening Files

Writing Data to a File

Reading Data From a File

Buffering Operations

Using the Writer and Reader Classes

Serialization

Serialization Overview

The Serializable Interface

Serializing a Class Instance

Multi-Threaded Programming

MultiThreaded Programming Overview

Creating a Thread

Creating Thread Classes

Synchronizing Code

Other Useful Thread Functions

Inter-Thread Communication

Thread Priority

Database Programming with JDBC

Programming Overview

Connections

Executing SQL Statements

Reading Data

Updating, Inserting and Deleting Data

Executing Multiple Batches

The PreparedStatement Interface

Using Transactions

Calling Stored Procedures: The Callable Statement Interface

About Spring, Hibernate and ORM