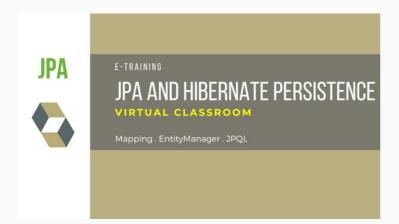
Module: JPA and Hibernate persistence

Want to master JPA and Hibernate? This training teaches you how to use the JPA standard and the Hibernate ORM in your web applications. You will be able to install the JPA persistence API and the Hibernate ORM, create entity managers, implement mapping and perform JPQL and HQL queries.

Prerequisites: Java SE programming, Java Database connectivity.





Ways to take this course: Online Instructor Led

Online self-paced Video On Demand

Video conference tool: ZOOM

Duration: 21 H (3 days)

Architectures and integration

ORM and client/server application ORM and web application ORM in Distributed Architecture Hibernate Spring Integration Other

Advanced Topics

Transactions Exceptions Cache management Lazy-Loading Inheritance mapping Association mapping

OUTLINE

Introduction

JDBC concepts

ORM: Object Relational Mapping

JPA, Hibernate: history When to use JPA, Hibernate? Hibernate and the JPA specification Competitors: EclipseLink, iBatis

Hibernate Versions

Persistence with JPA

JPA Specification

JPA Architecture

Persistence Provider EntityManagerFactory

EntityManager, persistence.xml

Persistence operations

CRUD on entities

@ManyToOne, @ManyToMany

Eager, Lazy Fetching

Persistence with Hibernate

Architecture

Install, configure, IDE

Database connection

Objects: Session, Session Factory

Objects: Transaction, Query

Creating, adding and deleting objects

Hibernate Session

Mappings

JPQL and HQL

Java Persistence Query language Structure of requests Scalar functions Aggregate Functions Between, And, Like, Order Named queries, subqueries Eager, Lazy

