

Instructor Notes:



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Add instructor notes here.

Course Goals and Non Goals



Course Goals

- Understanding Object Relation Mapping
- Learning JPA API
- Associations and Mapping
- JPQL

Course Non Goals

- JPA integration with existing frameworks like spring or struts

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Pre-requisites



Object Oriented Programming - Java
RDBMS/SQL
XML
Annotations

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Intended Audience



Java Developers
Web Application Developers/Programmers



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Day Wise Schedule



Day 1

- Lesson 1: Introduction to ORM and its need
- Lesson 2: The Persistence Life Cycle
- Lesson 3: Java persistence API (JPA)

Day 2

- Lesson 4: Transactions in JPA
- Lesson 5: JPA queries (JPQL)
- Lesson 6: Association and Mapping

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Lesson 1: Introduction to ORM and its need

- 1.1. Persistence and its need
- 1.2. Object/Relation Mapping
- 1.3. Object-relational Impedance Mismatch
- 1.4. ORM and its need
- 1.5. JPA and its benefits

Lesson 2: The Persistence Life Cycle

- 2.1. Introduction
- 2.2. Life Cycle

Lesson 3: Java Persistence API

- 3.1. Java Persistence API
- 3.2. Working with JPA

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Lesson 4 : Transactions in JPA

- 4.1. What is Transaction
- 4.2. Types of Transactions
- 4.3. Working with Transactions

Lesson 5: JPA Queries

- 5.1. JPQL
- 5.2. Working with JPA Queries

Lesson 6: Association and Mapping

- 6.1. Associations
- 6.2. Inheritance

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References



Reference URLs:


- <http://docs.oracle.com/javaee/7/api/javax/persistence>
- <http://www.objectdb.com/java/jpa/>



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Next Step Courses (if applicable)



Integration of JPA with existing frameworks like Spring or Struts

