

Instructor Notes:



Instructor Notes:

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: JDBC
- Lesson 2: Introduction to ORM and its need

Day 2

- Lesson 3: The Persistence Life Cycle
- Lesson 4: Java persistence API (JPA)

Day 3

- Lesson 5: JPA Queries
- Lesson 6: Association and Mapping

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Lesson 1 :JDBC

- 1.1 :JDBC Introduction
- 1.2 :Database Connectivity Architecture
- 1.3: JDBC API's
- 1.4 :Database Access Steps
- 1.5: Transaction
- 1.6: Connection Pooling
- 1.7: DAO Design Pattern
- 1.8 :Best Practices

Lesson 2: Introduction to ORM and its need

- 2.1. Persistence and its need
- 2.2. Object/Relation Mapping
- 2.3. Object-relational Impedance Mismatch
- 2.4. ORM and its need
- 2.5. JPA and its benefits

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Lesson 3: The Persistence Life Cycle

- 3.1.Introduction
- 3.2.Life Cycle

Lesson 4: Java Persistence API

- 4.1. Java Persistence API
- 4.2. Working with JPA

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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

