

**Instructor Notes:**



## Instructor Notes:

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### Course Goals and Non Goals

#### Course Goals

- Understanding Object Relation Mapping
- Learning JPA API

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

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## Table of Contents



### 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

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#### 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

#### Lesson 4: JPA Queries

- 4.1. JPQL
- 4.2. Working with JPA Queries

#### ▪ Lesson 5: JPA Association and Mapping

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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

