COURSE CONTENT

HIBERNATE

Designed By Sachin Dhane

Sachin Sir's

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Techno Comp Academy
An IT Training Institute

Branch : New Sangvi, Pune.   **Contact : 9284293870**

Since 2009

Course Content – Hibernate Framework

Fundamentals you should know before starting Hibernate

- What is a class?
- What is an object?
- Use of constructors.
- Use of getters and setter
- Use of toString() method
- Marker Interface
- Serializable Interface
- Association Implementation - Java + SQL
- Annotations
- use of 'class' keyword,
  For Example - "Student.class" will give you what ?

- Typecasting
    Student std = (Student) _____ ;
- Use of Factory classes
    o study of static member
    o static block
    o static Method.

- Use of Class.forName()

- What is maven ?
    o Prepare Hello World Application using Maven
    o Prepare JDBC application Using Maven

- SQL Relationships 1-1, 1-M/M-1, M-M
- AUTOINCREMENT for Primary Key

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Introduction to Data Persistency

- What is Enterprise Application?
- What is Data Persistency?
- Data Persistency through Serialization and Deserialization
- Data Persistency through JDBC
- Data Persistency through ORM
- Hibernate History
- Hibernate Architecture

Hibernate Application with Eclipse

- Downloading and Installing Eclipse & IntelliJ IDE
- Prepare Hibernate Applications in Eclipse IDE
- Prepare Hibernate Applications in IntelliJ IDE

Preparing First Hibernate Application

- Prepare Persistence Class or Object
- Prepare Mapping File
- Prepare Hibernate Configuration File
- Prepare an application

Hibernate Application

- Example On Hibernate SaveOrUpdate(--) method
- Example to delete records from Database
- Example To retrieve Record from Database
- Hibernate with MySQL & PostgreSQL Database

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Hibernate Persistence Object Life Cycle

- Transient State
- Persistence State
- Detached State
- Removed State

Hibernate Schema Generation Tools

- SchemaExport
- SchemaUpdate
- CodeGeneration

Creating SessionFactory object in Hibernate4.x, 5.x, 6.x version

- Create Configuration Object with all configuration details
- Get all configuration details into Properties object
- Creating StandardServiceRegistryBuilder
- Get All configuration details from Properties object into StandardServiceRegistryBuilder object
- Create StandardServiceRegistry object
- Create SessionFactory object

Primary Key Generation Algorithms in Hibernate

Transaction Management

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Connection Pooling in Hibernate

- Connection Pooling in Hibernate
- Default Connection Pooling Mechanism in Hibernate
- Third Party Vendors provided Connection pooling Mechanism

Bulk Operations

- HQL [Hibernate Query Language]
- Building Blocks for HQL queries,
- Implementation of Pagination
- Native SQL
- Criterion API

Hibernate Filters

- Prepare a table in Database with the required columns, where we must define a filter parameter column
- Define Filter in mapping File
- Enable Filter in Session and set values to filter parameters in order to filter the results

Hibernate Mappings

- Basic of Mapping.
- Component Mapping
- Inheritance Mapping
- Association Mapping
- Retrieving the data through annotation

50+ Application / Implementations and One Mini Project

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Database

MySQL, PostgreSQL

IDE

Eclipse, IntelliJ

Course Completion Certificate

At the end of course you will get Techno Comp Academy's Course Completion Certificate.