

Spring Hibernate Syllabus

1. UNDERSTANDING HIBERNATE

- What Is ORM
- What Are The Main Features Of ORM
- Why Object/Relational Mapping(ORM)

2. UNDERSTANDING HIBERNATE Architecture

- 2.1 Configuration
- 2.2 Session Factory
- 2.3 Session
- 2.4 Query
- 2.5 Criteria
- 2.6 Hibernate Configuration
- 2.7 Hibernate Mappings
- 2.8 Persistent Classes

3. Using Hibernate To Perform Basic Persistent Operations

- 3.1 Prepare Configuration Object
- 3.2 Build Session Factory
- 3.3 Obtain Session
- 3.4 Perform Persistence Operations
- 3.5 Close the Session

4. Working With Hibernate To Perform Basic CRUD Operations

5. Using Persistent Objects

- 5.1 Differences Between get() vs load() Methods
- 5.2 Hibernate save() method
- 5.3 Hibernate persist() method
- 5.4 Hibernate saveOrUpdate() method
- 5.5 Hibernate update() method
- 5.6 Hibernate merge() method

6. Hibernate Inheritance

- 6.1 Table-Per-Class Hierarchy Mapping
- 6.1 Table-Per-Subclass Hierarchy Mapping
- 6.1 Table-Per-Concrete-Class Hierarchy Mapping

7. Working With Collections

- 7.1 Associations
- 7.2 Mapping Lists
- 7.3 Mapping Set/Sorted Sets
- 7.4 Mapping Maps/Sorted Maps
- 7.5 Mapping Arrays

8. Hibernate Annotations

- 8.1 @Entity Annotation
- 8.2 @Table Annotation
- 8.3 @Id and @GeneratedValue Annotations
- 8.4 @Column Annotation
- 8.5 @Version Annotation
- 8.6 @OrderBy Annotation

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- 8.7@Transient Annotation
- 8.8@OneToOne Annotation
- 8.9@OneToMany Annotation
- 8.10@ManyToOne Annotation
- 8.11@ManyToMany Annotation
- 8.12@PrimaryKeyJoinColumn Annotation
- 8.13@JoinColumn Annotation
- 8.14@JoinTable Annotation
- 8.15@Inheritance Annotation
- 8.16@DiscriminatorColumn Annotation
- 8.17@DiscriminatorValue Annotation

9. Hibernate Batch Processing

10. Hibernate Event

11. Hibernate Interceptors

12. Hibernate Filter

13. Hibernate Query Language

- 13.1 Update Operation
- 13.2 Delete Operation
- 13.3 Insert Operation
- 13.4 Select Operation
- 13.4 The from Clause and Aliases
- 13.5 The select Clause

14. Named Queries

15. Using Native SQL

16. Mvc application with Hibernate

17. Stored Procedure with Hibernate

18. Hibernate With Maven

19. Hibernate Validator

20. Hibernate - Caching

- 20.1 First-level Cache
- 20.2 Second-level Cache

21. Hibernate Java Config

22. Hibernate DbcP Pooling

23. Hibernate C3p0 Pooling