

Hibernate Frameworks

Duration: 20-25 Hours

Prerequisites

- Knowledge of Core & Adv Java Programming

Course Contents

1. Hibernate 4.X

- Introduction To Hibernate
 - Hibernate - environment setup
 - Object relational mapping (ORM)
 - Features of hibernate
 - Overview of hibernate architecture
 - Understanding different components of hibernate
 - Create persistent java Objects
 - Mapping POJO with persistence layer using hibernate mapping document
 - Hibernate configuration file
 - hbm2ddl Configuration
 - Hibernate-mapping elements
 - Class element
 - Id element
 - generator element
 - property element
 - JPA annotations
 - Writing the Model Class with Annotations
 - Value Types and Embedding Objects
 - Collection Mapping
 - Attribute Overrides and Embedded Object Keys
 - Hibernate object states(Transient, Persistent and Detached Objects)
 - Persisting Detached Objects
 - Modifying persistent objects
 - Deleting persistent objects
 - Loading an object
 - Automatic state detection
 - Proxy Objects and Eager and Lazy Fetch Types
 - Parameter Binding and SQL Injection
 - Collection mapping
 - Cascade Types and Other Things
 - Component mapping
 - Inheritance mapping strategies
 - Table per concrete class
 - Table per subclass
 - Table per hierarchy
 - Hibernate mapping associations
 - One-to-one
 - Bidirectional one-to-one
 - One-To-Many
 - Bidirectional One-To-Many
 - Many-to-many
 - Bidirectional many-to-many
 - Querying with HQL (Hibernate query language)
 - Named and native queries
 - Working with criteria interface
 - Overview on hibernate Detached Criteria
 - Understanding Restrictions
 - Query by example – QBE
 - Projections, aggregation and grouping
 - Narrowing the result set
 - Ordering the results
 - Pagination in Hibernate
 - Hibernate batch processing
 - Calling stored procedure in hibernate
 - Hibernate caching
 - Mapping Entity bean to value object
 - Hibernate in web
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