



Hibernate Framework

The image features the Java logo in a large, stylized font with a red-to-blue gradient. The background is a dark, futuristic digital space with glowing blue and orange lines, a grid of light points, and a central glowing square, suggesting a high-tech or data-driven environment.

JavaTM

About Course

Hibernate is an open source object relational mapping (ORM) tool that provides a framework to map object-oriented domain models to relational databases for web applications. Object relational mapping is based on the containerization of objects and the abstraction that provides that capacity.

HIBERNATE FRAMEWORK

CURRICULUM

① Introduction

What is ORM principle?
Why ORM?
ORM implementations

② Hibernate Architecture

Introduction to Hibernate
Hibernate Architecture
What are Persistent classes?

③ Hibernate CRUD

Setting up Hibernate project
Configuring all JARs and XML files
Setting up connection to DB using Hibernate
Performing basic CRUD operations using Hibernate API
Object Identity; Generator type classes
Using SQL with Hibernate
Using HQL
Using Criteria queries

4

Mapping Collections and Associations

To define sets, mas, lists in Hibernate
Association Mappings:

One to one

One to many

Many to one

Many to many

Hibernate Caching

What is caching?

5

Using Hibernate Annotations

Sample example of using Hibernate Annotations



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