Hibernate – JPA Implementation

Hibernate – ORM Framework

ORM – Object Relational Mapping

Object – Java

Relational – DB Entities

JPA – IS a specification (Oracle, MySQL, Postgres, DB2, MongoDB) – CRUD operation

JDBC – is a specification

JDBC & JPA API – Set of predefined classes and Interface

//Generationalization – Specification

Interface shape{

Public void calculateArea();

}

Hibernate.org

Web Application --- MVC

Model -- DAO, JPA, DB Layer, Entities (Middleware Layer/DB Layer)

View - HTML (Front End Layer)

Controller – Servlet/JSP/ASP/PHP/Python/.Net (REST Controller) – Business Logic

MERN, MEAN, JAVA, .Net

<https://docs.jboss.org/hibernate/stable/orm/userguide/html_single/Hibernate_User_Guide.html>

JPQL = Java Persistence Query Lang (DB Independent Query)

HQL = Hibernate Query Lang (DB Independent Query – Will use Entity Class Name)

Hibernate.cfg.xml – hibernate configuration file

Employee.hbm.xml – hibernate mapping file (optional) – Annotations

Core Objects of Hibernate

1. SessionFactory
2. Session
3. Transaction
4. TransactionFactory
5. ConnectionProvider