

Spring-data-jpa-handson

Hands on 4

Difference between JPA, Hibernate and Spring Data JPA

Solution:-

Feature	JPA	Hibernate	Spring Data JPA
Type	Specification / Standard	Implementation of JPA	Abstraction layer over JPA/Hibernate
Who defines it?	Java EE / Jakarta EE (Oracle/Java Community)	Red Hat	Spring Framework (Pivotal/VMware)
Purpose	To define a standard way to persist Java objects	Provides actual implementation of JPA and additional features	Simplifies JPA by reducing boilerplate code
Key Usage	Annotations like <code>@Entity</code> , <code>@Table</code> , etc.	SessionFactory, Criteria API, Lazy Loading, Caching	Repositories (e.g., <code>JpaRepository</code> , <code>CrudRepository</code>)
Code Needed	Requires manual implementation	Still requires lots of boilerplate (Session handling etc.)	Minimizes code (CRUD without writing SQL or JPQL)
Standard or Tool?	Standard/Spec (no implementation)	Tool/Library	Framework Extension
Example Use	<code>@Entity</code> , <code>EntityManager</code>	<code>Session</code> , <code>Configuration</code> , <code>Criteria</code> API	<code>findById()</code> , <code>save()</code> , <code>@Repository</code> , <code>@Service</code>