

Difference Between JPA, Spring Data JPA and Hibernate

JPA(Java Persistence API) :

- It is a **specification** (set of interfaces and annotations) that defines how to persist Java objects into a relational database.
- It defines rules for ORM.

Hibernate :

- Hibernate is an **implementation** of the JPA specification
- ORM framework that provides the actual code and functionality
- Hibernate also offers its own "native" API and additional features beyond the JPA specification.

Spring Data JPA :

- Spring Data JPA is a **higher-level abstraction** and a part of the Spring Framework's Spring Data project.
- It builds on top of JPA and Hibernate to further simplify data access layer development
- Its main goal is to reduce the amount of boilerplate code
- Provides predefined interfaces like CrudRepository, PagingAndSortingRepository, and JpaRepository that offer common CRUD operations out of the box.