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# Spring-Boot HandsOn Exercises

Exercise-Difference between JPA , Hibernate and Spring Data JPA

Objective: To understand their roles for JAVA Applications

JPA:

It is abbreviated as Java Persistence API. This is a specification used to define how to persist, read, and manage data from Java objects to a relational databases by binding RDBMS and Programming together. It provides a set of interfaces but doesn’t has a concrete implementations.

HIBERNATE:

This is a popular Object-Relational Mapping (ORM) tool which has a concrete implementation of the JPA specification. It handles the actual mapping of java objects to database tables and also manages sessions, transactions and SQL generation behind the scenes whereas JPA acts like a blueprint and Hibernate does the management of tasks and the transactions

SPRING DATA JPA:

This is a higher-level abstraction built on top of JPA providers like Hibernate. It significantly reduces the boilerplate code by generating the required repositories by itself according to the user actions and the interface definitions. It simplifies the data access operations and transaction management and creation of queries. Spring Data JPA is illustrated cleaner and concise which allows to focus on business logic rather than persistence

CONCLUSION:

JPA – Acts as a blueprint

HIBERNATE – Process held according to the blueprint

SPRING DATA JPA – Project Manager with Automated Tools