**API End Points and Communication**

**Day 6: 6 March 28**

**Spring with ORM tool ie JPA**

Set up for the project

Maven project

Spring Core dependency

Spring Context dependency @Component, @Service, @Autowired and @Repository

Mysql connector --🡪 database

Spring jdbc dependency -🡪 it provide data source features

Spring orm dependency 🡪 it help to integrate with existing orm tool

Jpa dependency 🡪 2

***LocalContainerEntityManagerFactoryBean*** *: this class part of spring orm which allow to integrate spring with orm ie jpa tools*

*Store the record -🡪 persist ()*

*Remove the record 🡪 remove()*

*Update the record 🡪 merge()*

*Find the record using pk property 🡪 find()*

*Retrieve all records from database using JPA*

*JPA provided own query language ie JPQL Java Persistence Query Language.*

*JPQL retrieve directly object. JPQL is database independent.*

*SQL retrieve data in the form of string. SQL is database dependent.*

*SQL*

*Select \* from tableName; \* means all column present in table.*

*Select \* from Employee; Employee is table name can be upper or lower case.*

*Select \* from employee where id=100;*

*Select \* from employee where salary >34000;*

*JPQL*

*Select objectName from EntityClassName objectName;*

*select emp from Employee emp;*

*Here Employee is entity class name case sensitive and emp is object which retrieve all property.*

*select emp from Employee emp where emp.id=100;*

*emp is object and is variable name of Employee class.*

*select emp from Employee emp where emp.salary > 45000;*

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