

Implementing JPA support

Use appropriate JPA ann. to map Java Object with DB schema (entity class) (mapping table field with class fields)

provide appropriate configure for datasource

Dependency:

- 1. Hibernate (ORM)
- 2. jdbc-connection
- 3. Connection Pool

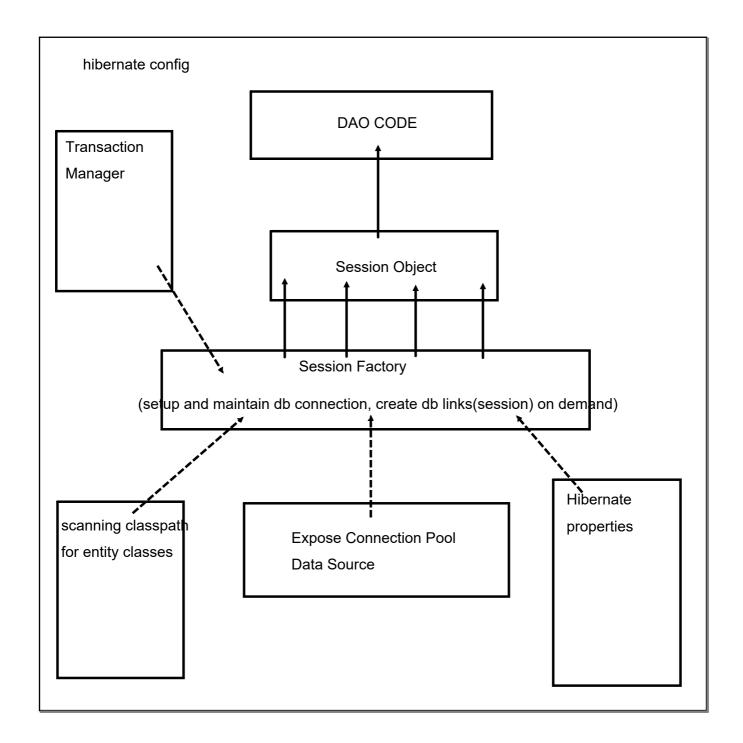
Hibernate:

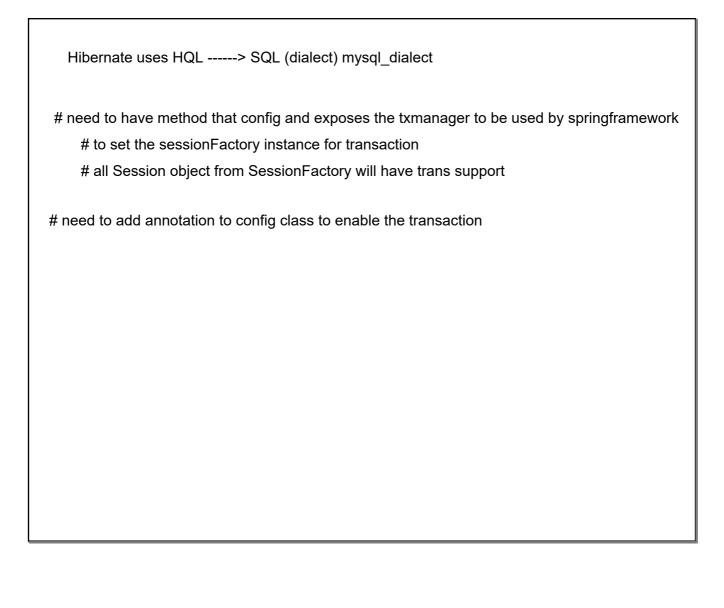
hibernate project (hibernate-core)

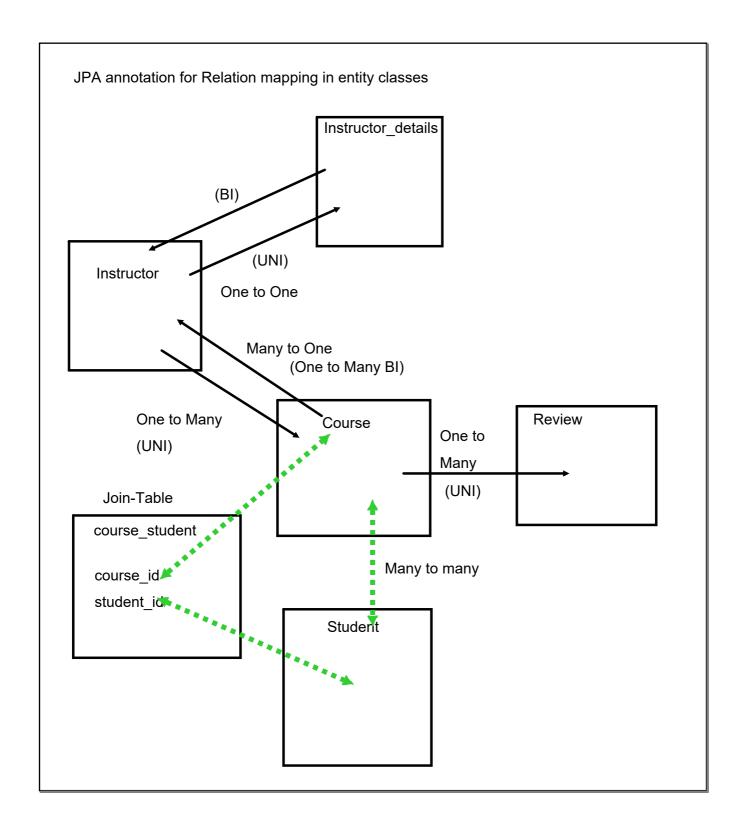
do need plumbing API

spring-orm (helps to connect Spring bean with Hibernate ORM)

spring-tx (provide sync between application context of spring with Hibernate tx)







Basic DB relation req

equivalent mapping in entity classes using JPA annotations

Base Concepts

1. DB: primary and foreign keys

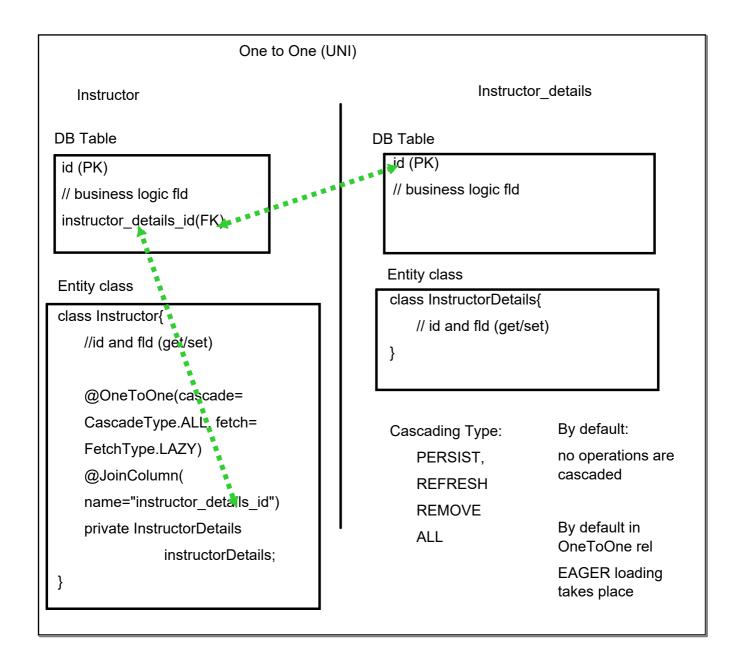
2. Implementations:

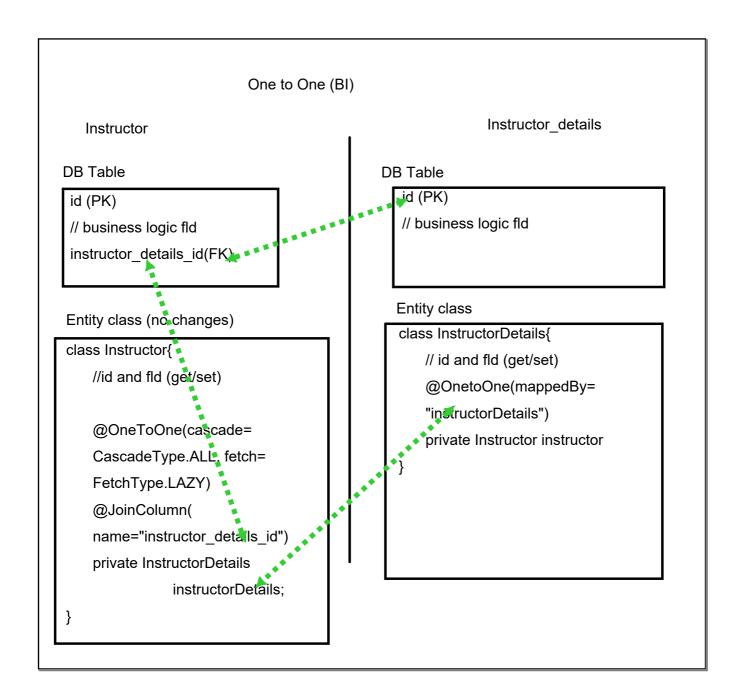
Cascading: (applying same operation on related entities)

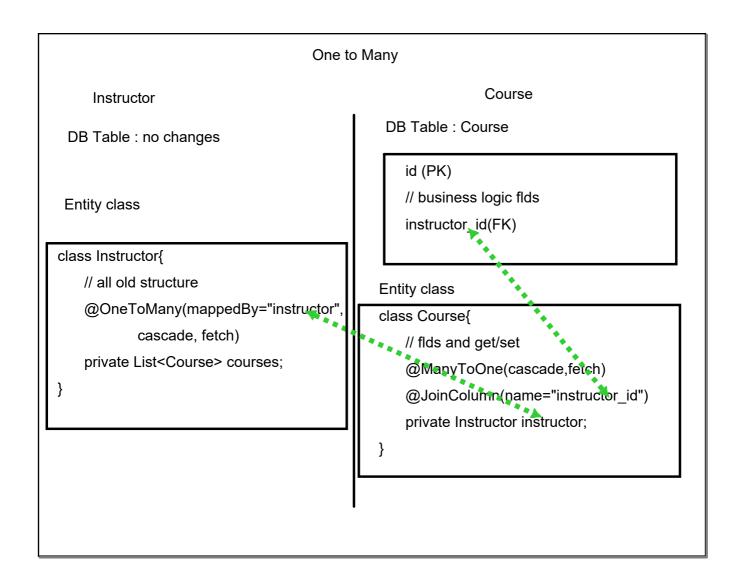
Fetching::

Eager: will fetch everything related to that entity

Lazy: fetch on demand







Default F	etching	type
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OneToOne : EAGER
OneToMany : LAZY
ManyToOne : EAGER
ManyToMany : LAZY

```
ManyToMany: third table (join-table) containing fk with other 2 tables
               : no entity class for it is created
    Course
 DB Table: no changes
Entity class
class Course{
    // all old composition
    @ManyToMany(cascade,fetch)
    @JoinTable(
   name="course_student",
   joinColumns=
        @JoinColumn(name="course_id"),
    inverseJoinColumns=
        @JoinColumn(name="student_id")
    private List<Student> students;
}
  @JoinTable tell Hibernate:
      1. Look as course_id in join-table
      2. for other side (inverse), look at student_id in JT
      3. use this info to find relationship
```

```
Entity class

class Student{

// all std composition

@ManyToMany(cascade,fetch)

@JoinTable(

name="course_student",

joinColumns=

@JoinColumn(name="student_id"),

inverseJoinColumns=

@JoinColumn(name="course_id")

)

private List<Course> courses;

}
```

Hibernate //	August 03, 2019
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