­Today’s Objectives

1. Uni dir one to one (User 1--- >1 Address)
2. Uni dir many to many (Tag \*------>\* Restaurant
3. JPA Components (value types) – Embeddables
4. Enter Spring

**1.Solve objective**

Establish bi dir association - one to one (User 1<--- >1 Address)

Entity Layer –

User entity – inverse

State – firstName, …..+

@OneToOne(mappedBy=” owner”,cascade=CascadeType.ALL,orphanRemoval=true)

Private Address myAddress;

Address –owning side

Line1 , line2….+

@OneToOne

@JoinColumn(name=”user\_id”)

Private User owner;

2. Simpler configuration -

Establish uni dir association - one to one (User 1--- >1 Address)

In User class –

@OneToOne(cascade=ALL,orphanRemoval=true)

@JoinColumn(name=”addr\_id”)

Private Address myAddress;

In Address class –

None !

**Solve .**

**What will be Address class definition ?**

Public class Address extends BaseEntity{…}

**What will you add in User class ?**

**…..**

**+**

**What will you add in Address class ?**

**Adr details**

**Solve –**

Assign address to the existing user

i/p –adr details + user id

o/p – mesg

DB – rec gets inserted in address table .

Users updated – adr id.

**Solve –lab work !**

1. **Display user details + address details**

**i/p – user id**

**o/p - user details + address details**

**Hint – join fetch**

1. **Display user details**

**i/p – user id**

**o/p –only user details**

1. **Display last names of all users from the specified city**

**i/p – city name**

**o/p – list of last names**

**JPQL –**

1. **Uni dir many to many (Tag \*------>\* Restaurant)**

What will you add in Tag class ?

@ManyToMany - mandatory

@JoinTable(name , joinColumns,inverseJoinColumns)

Private Set< **Restaurant** > restaurants=new HashSet<>();

What will you add in **Restaurant** class ?

NONE !

Solve

1. Create a tag

i/p – tag name

DB – rec inserted in tags table (session.persist(nesTag))

1. Add specified restaurant to the specified tag

i/p – tag id , post id

DB – rec should be inserted in join table – with FKs assigned .

1. **Components (value types) – Embeddables | Elements**

User HAS-A Adhar Card : demo of entity n value type (composite)

User HAS-A Language Skills : string (multiple languages)

- collection of basic value type

1. JPA Inheritance

* Single table inheritance strategy