================================= \*\* One To One ===================================

Unidirectional oneTOone conclusion : user ni vadi Address details get cheyachhu kani / Address ni vadi user ni get cheyalamu

User controller post man out put

[

{

"userid": 1,

"name": "chandu",

"address": {

"street": "yarajarla",

"city": "ongole",

"addid": 101

}

}

]

Add controller post man out put

[

{

"street": "yarajarla",

"city": "ongole",

"addid": 101

}

]

Bidirectional conclusion : Bidirectional lo user nuodi Address alane Address nuodi user ni rendu work avuthayy

Comment added //@JsonIgnore in parent (User) tabel

Bidirectional\_User\_Controller post man out put

[

{

"userid": 1,

"name": "kiran",

"address": {

"street": "yarajarla",

"city": "ongole",

"addid": 101

}

}

]

Bidirectional\_Add\_Controller post man out put

[

{

"street": "yarajarla",

"city": "ongole",

"addid": 101

}

]

Comment added //@JsonIgnore in child (Add) tabel

Bidirectional\_User\_Controller post man out put

[

{

"userid": 1,

"name": "kiran"

}

]

Bidirectional\_Add\_Controller post man out put

[

{

"street": "yarajarla",

"city": "ongole",

"user": {

"userid": 1,

"name": "kiran"

},

"addid": 101

}

]

Comment Removed //@JsonIgnore both parent and child

Bidirectional\_User\_Controllerpost man out put

[

{

"userid": 1,

"name": "kiran"

}

]

Bidirectional\_Add\_Controller post man out put

[

{

"street": "yarajarla",

"city": "ongole",

"user": {

"userid": 1,

"name": "kiran"

},

"addid": 101

}

]

===================================================================================

OneToOne Mapping main aim :

// Get Address details by User ID

// Get User details by Address ID

Unidirectional OneToOne coding

// Get Address details by User ID controller

@GetMapping("/address/byUser/{userId}")

public ResponseEntity<Unidirectional\_Address> getAddressByUserId(@PathVariable Long userId) {

// Find User by ID

Optional<Unidirectional\_User> userOptional = userRepo.findById(userId);

if (userOptional.isPresent()) {

// Get the Address associated with the User

Unidirectional\_Address address = userOptional.get().getAddress(); // Navigate from User to Address

return ResponseEntity.ok(address);

} else {

return ResponseEntity.status(HttpStatus.NOT\_FOUND).body(null);

}

}

Post man out put :

{

"street": "yarajarla",

"city": "ongole",

"addid": 101

}

// Get User details by Address ID controller

Unidirectional OneToOne lo user ni vadi Address details get cheyachhu kani / Address ni vadi user ni get cheyalamu

so // Get User details by Address ID work avvadu

@GetMapping("/user/byAddress/{addressId}")

public ResponseEntity<Unidirectional\_User> getUserByAddressId(@PathVariable Long addressId) {

// Find Address by ID

Optional<Unidirectional\_Address> addressOptional = AddressRepo.findById(addressId);

if (addressOptional.isPresent()) {

// Get the User associated with the Address

Unidirectional\_User user = addressOptional.get().getname(); // Since it's unidirectional, there’s no reference in Address

return ResponseEntity.ok(user);

} else {

return ResponseEntity.status(HttpStatus.NOT\_FOUND).body(null);

}

}

addressOptional.get().getname(); kada Error vasthundi because of FK relation

Alternative ga coustom Querys ni Repository lo rasi cheyachhu ala rase badulu direct ga Bidirectional OneToOne ni use cheyachhu

Bidirectional OneToOne coding

// Get Address details by User ID controller

@GetMapping("/address/byUserID/{userId}")

public ResponseEntity<Bidirectional\_Address> getAddressByUserId(@PathVariable Long userId) {

// Find User by ID

Optional<Bidirectional\_User> userOptional = BidirectionalUserRepo.findById(userId);

if (userOptional.isPresent()) {

// Get the Address associated with the User

Bidirectional\_Address address = userOptional.get().getAddress(); // Navigate from User to Address

return ResponseEntity.ok(address);

} else {

return ResponseEntity.status(HttpStatus.NOT\_FOUND).body(null);

}

}

Post man out put :

{

"street": "yarajarla",

"city": "ongole",

"addid": 101

}

// Get User details by Address ID controller

@GetMapping("/user/byAddressID/{addressId}")

public ResponseEntity<Bidirectional\_User> getUserByAddressId(@PathVariable Long addressId) {

// Find Address by ID

Optional<Bidirectional\_Address> addressOptional = BidirectionalAddRepo.findById(addressId);

if (addressOptional.isPresent()) {

// Get the User associated with the Address

Bidirectional\_User user = addressOptional.get().getUser(); // Navigate from Address to User

return ResponseEntity.ok(user);

} else {

return ResponseEntity.status(HttpStatus.NOT\_FOUND).body(null);

}

}

Post man out put :

{

"userid": 1,

"name": "kiran",

"address": {

"street": "yarajarla",

"city": "ongole",

"addid": 101

}

}

========================== ===== \*\*\*\*\* \*\*\*\*\*\*\* =====================================

**Unidirectional OneToOne conclusion :**

Parent table Entity (user) ni vadi Child table Entity (Address) details get cheyachhu kani / Child table Entity (Address) ni vadi Parent table Entity details (user) ni get cheyalamu

**How table script in DB**

Parent table (user) lo FK script anedi create avuthundi child table lo kadu ( table Script in DB)

**How data insertion will work in DB**

Parent table (user) ki oka Child table id (Address\_id) mathrame insert avuthundi, means parent table lo oka user ki echhina Address\_id ni

vere user ki malli eddam ani insert chesina Error vasthundi because Address\_id colum ki UNIQUE KEY anedi use chesthamu

**key note** : Unidirectional OneToOne lo Parent table Entity class lo mapping relation rastamu. Child table Entity class lo rayamu (java code )

**Bidirectional OneToOne conclusion :**

Bidirectional lo Parent table Entity (user) nuodi Child table Entity (Address) details alane Child table Entity (Address) nuodi Parent table Entity (user) deatils rendu get cheyachhu

**key note :** Bidirectional OneToOne lo Parent and Child Rendu Entity class lo mapping relation rastamu

Enika remaining all same table scrpi / data insertion in data all same, only Java coding lo ne change by codig dwara details get chesukovadame diffrent

**Note :** Bidirectional OneToOne vadinappudu post man responces anedi infinite data loop anedi avuthundi danni over come cheyataniki

"@JsonIgnore" Entity class lo rastham