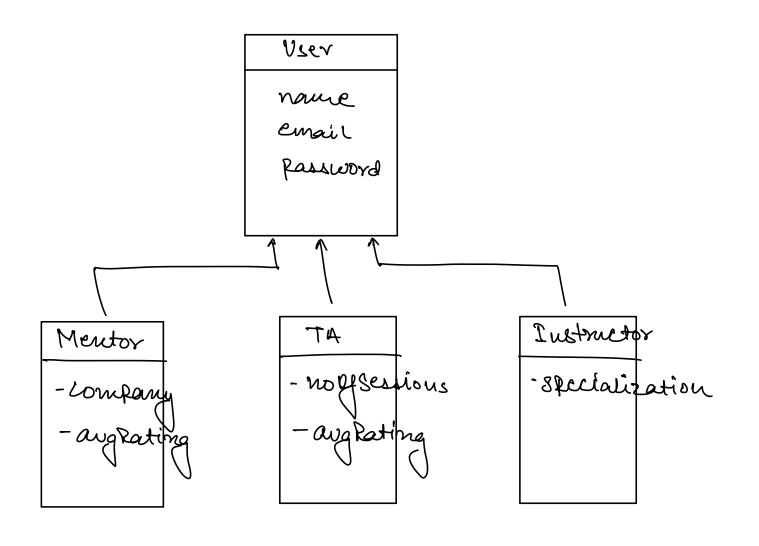
Agenda.
- Represent inheritance in Database.
-> Setup eur DB
7 Intégerate DB mith ProductService.
Product id name dese 1ty
Extending relationship
7 thow to represent Inheritance in DB.
When we use mapped super class -> When a parent class is not a real entity and we are using parent class to encapsulate or store the common attributes of child class
Mapped Enper Class
JOINED Table
Table Per Class
Table Per Class Single Table Class.



Store the data of instructors, ta & mentors in the DB, trow?

Marped Super Class.

Here we do not create parent class

=> Vouen there's No object of favent class.
=> Parent class can be marked as an Abstract

Class.

An abstract class is a class that defines a base class for other classes to inherit from.

To declare a class as abstract, add the keyword abstract before the class definition.

Subclasses inherit from abstract classes and provide implementations for the abstract methods.

In mapped superclass, we do not have object of parent class One table for each child is created in Parent class

@MappedSuperclass indicates that a class is a superclass and is not associated with a specific database table, but its fields (or properties) can be inherited by child entity classes that are associated with tables. This helps avoid code duplication and ensures a cleaner object model structure.

Approach.
1) No table for parent class
2) One table for each of the class mith their own attributes as well on attributes from
Child class will get all attributes from parent class -> name, attributes & password Here parent class(mapped superclass) is not an real entity. It will not have
atrributes of its own but only common atrributes from its child classesx`
Company augkating name email Rassword
ta
noffsessions aughating name email Passmord
instructor specialization name email Ressur
Q: Get email of all the users.
Select email from mentors UNION
Select email from ta

ONION

Select email from instructors
2) Joined Table. => 99.99% (Best 5014)
Flore in the parent table.
7 for each class also, We'll weste a table
mith only their own attributes.
.7 Well get faient class attres in child classes
We'll get farent class attrs in child classes Via foreign Key. Here we will have parent table -> users table In this users table we have name, email & pass for Mentors, TA and Instructor and we will use Foreign Key on id to get the attributes of parent class into
child class
id name (consit (Passmord
Wenter
Company augrating Inser-id

ta

nolfsessions aughating neer-id

Instructor

specialization (ner-id

<u>Q.</u>	Get	email ids et all the Mentors. > 7010- Mentor 4 Oser.
		=> 7010- Mentor 4 Oser.
Q. -	Get	email of all the users.
		La Single query
		Relect email from users.

Gerace

There can be some user which is neither ta, nor Instructor & nor Mentor? Mapped SuperClass X 5 Johned Table.

- 3 Table per Class.
- -> Exactly similler to Mapped Superland, only difference, here we'll also weate table for favent class as well.
- 7 table for each class mill have their own outsibutes as well as pavent class attributes.

wers Here in users class we will store name, email id and password for only those users which are not mentors, not email Passmord TAs and not instructors Here user class is a real entity Suraj mentors email Rassword augkating name If this Suraj has come to users table and later on become mentor, TA and Instructor, his name and details will duplicated in all these 3 tables as well -> disadvantage ta aughating nolfsessions Pass mord name email instructor specialization nouve Resswor email 7 first define the inheritance rel" Codebase

4	Single	Table.	(Worst	Sol4)
---	--------	--------	--------	-------

=> Create one table mith all the columns across the tables.

=> Add one extra comme mer-type to recognize the type of mer.

Wers-

naue	email	Password	Company	aughating	noffser	avz	Special	<u> -</u>
(2)		_	- "		Nor	NUL	NULL	
teen			Nore	Norc	Noral	שטני	LLD	

> Too may Dulls. (Sparse tasse)
> Waste of space.

=> If a user can have multiple voles.

=> 4 ways to represent i	
Mapped Super Class. > No	object for Parent
Joined Table. > Table Crild to faceut C	for parent class 4 bles will refer the class via f.k.
Exactly similar to 1 but table for pare	Mapped Super Class, ut class-
——————————————————————————————————————	