1) Intro to fakestore. 2) build om first Proxy API's. Froductservice.

Freate a Product

Pet a Product

Pupolate product

Solelete Micoservice georndust Product Service. # Denos API to Call 3rd Route

Here we are not implementing our own db

	Products/1  Product  Service  Instead of having our own dB -> we are calling third party system k/a fakestore
	facestore: 3°d party system that provide sample to is related to Econneru.
<b>&gt;</b>	Implement a product Service volich uses a zrd party API behind the scenes to get the mork done.
	Our aim is to learn how to call 3rd party API and not implementing our own obly from Stearn How to call 3 Frity our codebase.
$\Rightarrow$	Sample Product ADI'S to get data from 3rd Rauty System.

Service - for calling 3rd party APIs what all requirement we want enum: is not good way to define datatype for Category. Since enum has fixed #of constants and category thering is something which keeps on adding depending upon the vendor. The vendor can place his product in new category as well. So changing enum requires code changes and frequent code changes is not recommended just for adding a category. Try to avoid code changes in production. Plus you might have 10,000 category down the line, generally these big enums are not acceptable String is also not a good way: Lets say there are a lot of products say a shirt so for lot of products, category shirt will be same and due to redundancy it will consume a lot of memory. Also if you want to compare two strings, you have compare roduct character by character so if a string is of length n. comparison of string is slower So we will provide admin the access to add additional Category, rather than a code change? So we will take Category as a separate class and assign category as a foreign key so there will be no duplication Cardinality will be Many to 1-> M:1

We have made ProductController class. Now to write business logic we will create ProductService class. Because here Controller is a chef which will give the request to chef Now heres a catch. If we write our logic in ProductService class. And lets say down the line, we will have our own db, right now we are using fakestore db to do our work. But « Induct Service >> once we create our own db we will have two db to extract data. When you have multiple ways of doing something, we will use interace, So as to get more flexibility and make code loosely coupled Selfroductservice False store Product Service Now in constructor injection, either you can pass Fakestore object or your db object. in the parent class, you can provide object of any of the child classes take Store Now lets suppose you create a db of your own. Now in ProductController class, you will create an object Product Service of ProductService class or reference of ProductService. Now in constructor injection, either you can pass Fakestore object or your db object. in the parent class, you can provide object of any of the child classes Transfer to Interface, not to implementation

Dependency Inversion principle --> two concrete classes should not be depending on each other. They should depend via interface