

rest framework

rest architecture

api = application programming interface -> we can run multiple app using one database. Example facebook whatsapp insta server down if the organisation use one database but they are interconnected each other through api. if server down then 3 application will not work properly

convert database in api

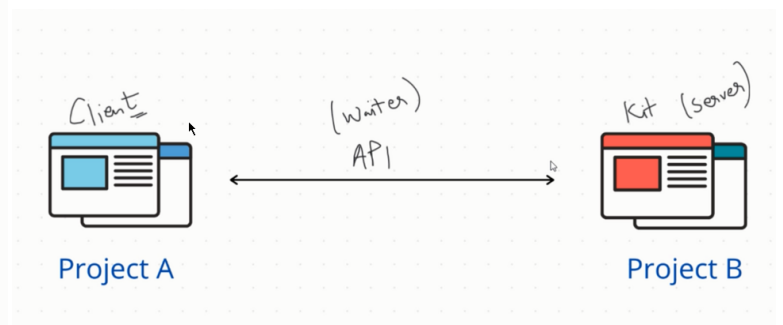
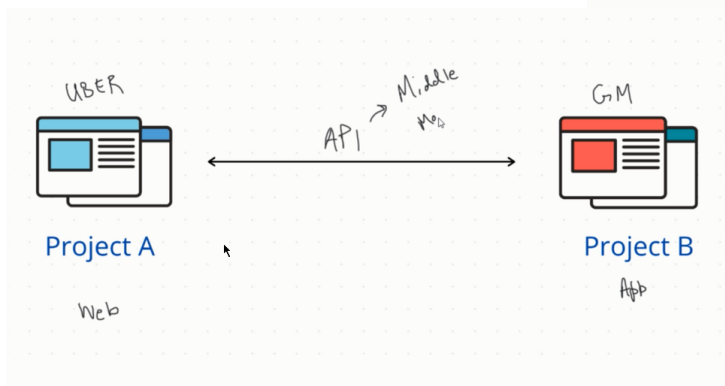
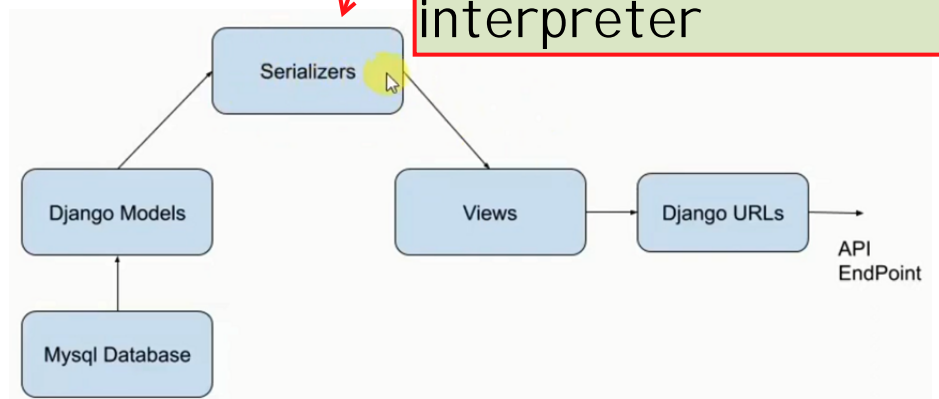
Rest = Representational state transfer

is a type of architecture (make of such kinds of algo) thats makes the data in one kind of standard data form JSON

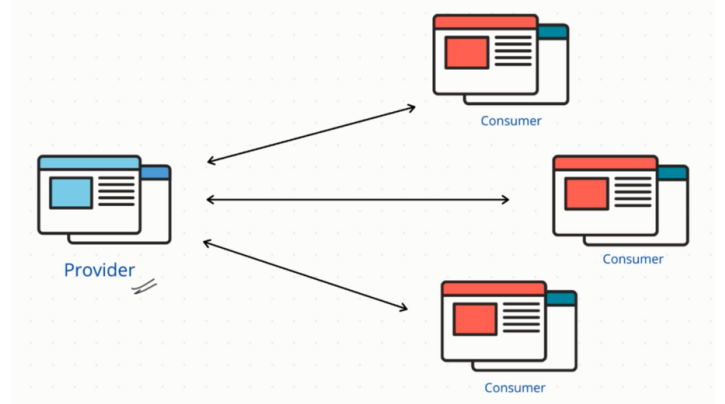
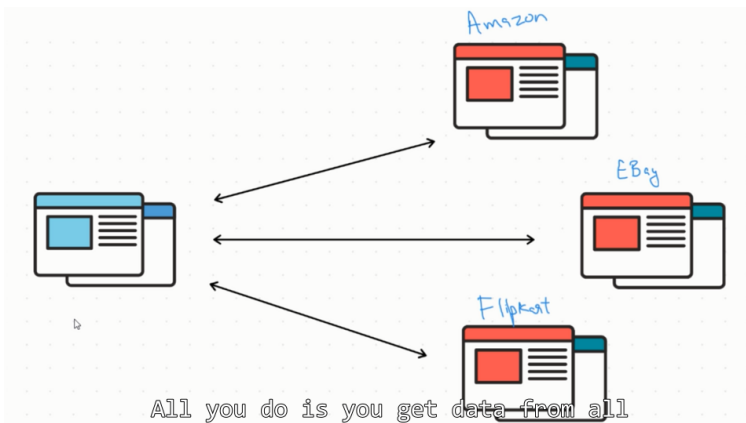
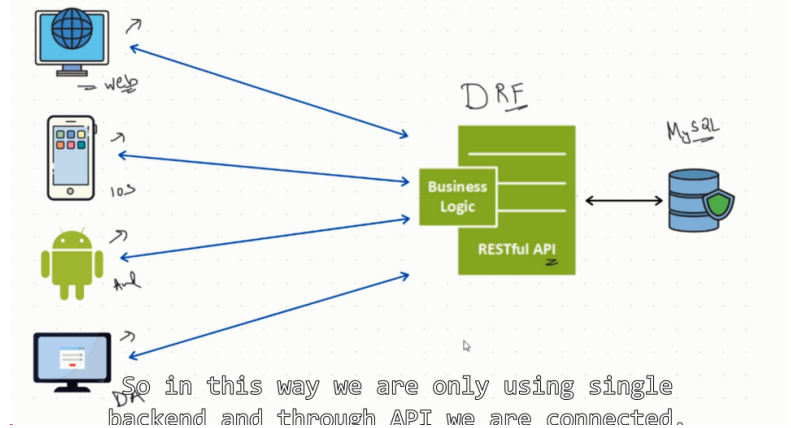
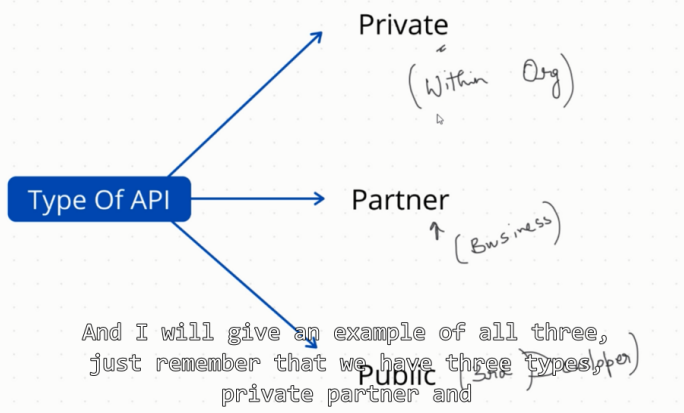
json=Java Script Object Notation

take data from model and convert in json.example chinese interpreter

user request-> view
->model->database
->view



api act as a middle man between client and server



Understanding URL

<https://www.api.movielist.com/movies/>
<https://www.api.movielist.com/movies/list/>

<https://www.api.movielist.com/movies/127/>
<https://www.api.movielist.com/movies/127/reviews/>
<https://www.api.movielist.com/movies/127/reviews/?limit=20>

<https://www.api.movielist.com/account/login/>
<https://www.api.movielist.com/account/register/>

It can be Spider-Man, Superman or any other movie.

Understanding URL

<https://www.api.movielist.com/movies/> *List*
<https://www.api.movielist.com/movies/list/>

<https://www.api.movielist.com/movies/127/> *Ind*
<https://www.api.movielist.com/movies/127/reviews/>
<https://www.api.movielist.com/movies/127/reviews/?limit=20>
Base URL
<https://www.api.movielist.com/account/login/>
<https://www.api.movielist.com/account/register/> *End Point*
 And then this remaining part, this part is known as End Point.

API REST → Rest API (status code)

① endpoint
 ② method
 ③ headers
 ④ the data
 json data

CRUD → Create → **POST**
 → Read → **GET**
 → Update → **PUT**
 → Delete → **DELETE**

HTTP Methods

So if I talk about them individually, we call them Create, retrieve, update and delete.

Understanding URL

→ <https://www.api.movielist.com/movies/>] LIST

GET POST

→ <https://www.api.movielist.com/movies/127/>] IND

GET PUT DELETE

API + REST Architecture → REST API

1. End Points

2. Methods (CRUD)

3. Headers (Status Code)

4. The Data (JSON)

```
def movie(request):  
    movies = Movie.objects.all()  
    data = {  
        'movies': list(movies.values())  
    }  
    return JsonResponse(data)
```