

17. Dynamic DOM [Consuming Work with API]

Create a Weather App.

Agenda :

- 1) JSON → What, How to work.
- 2) API interactions → Weather App
Using 'Weather API' for
getting real time data and
using it in our application.

JSON → Language Agnostic

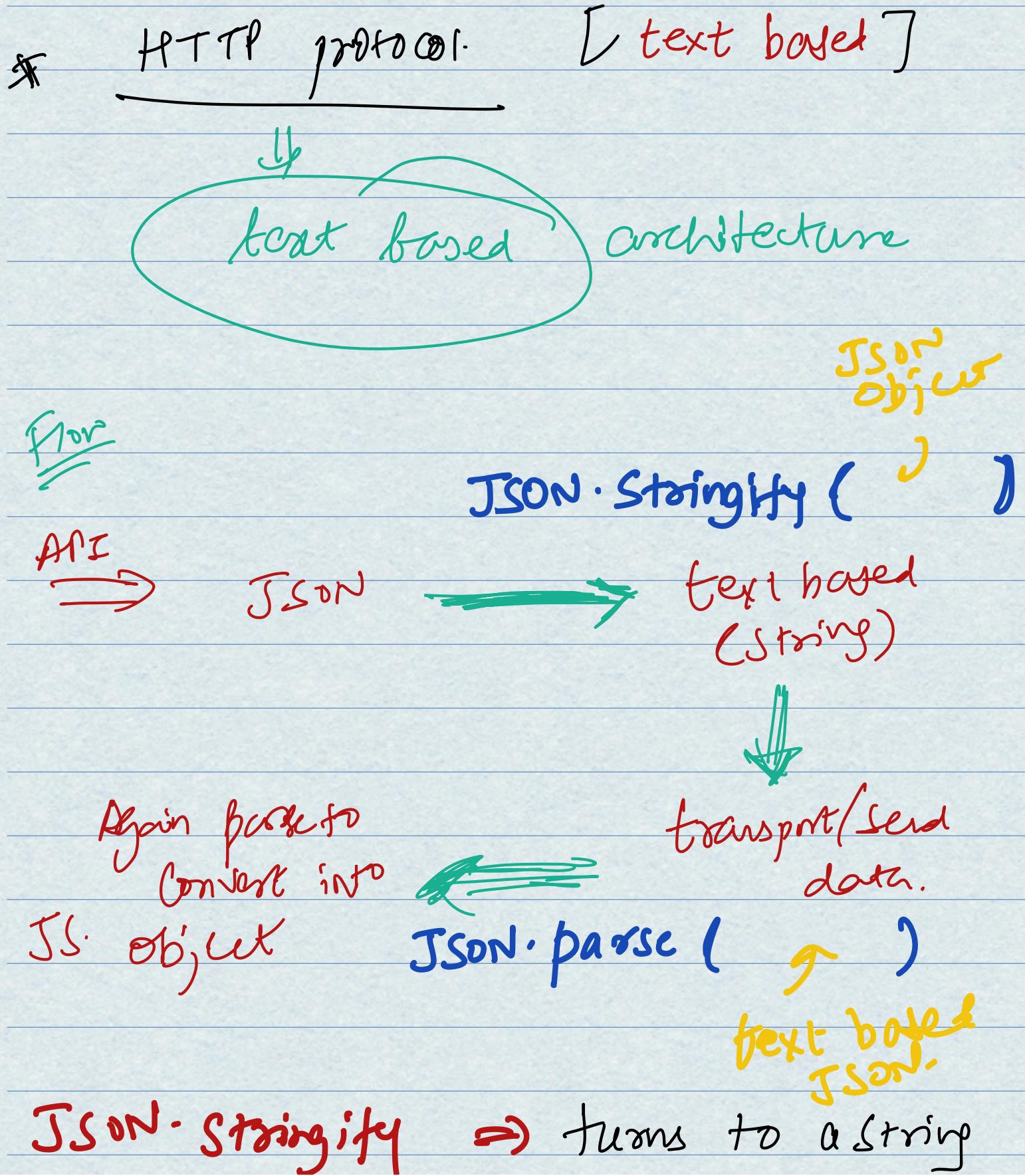
- JavaScript Object Notation
- Store / data Transport.
- Light weight
- Easily parse by machine
- Human readable.

Key SEPARATOR value

```
  {  
    "name": "John Doe",  
    "isFemale": false,  
    "age": 30,  
    "food": ["Dal", "rice"],  
    "address": {  
      "city": "blr",  
      "country": "india",  
    }  
  }
```

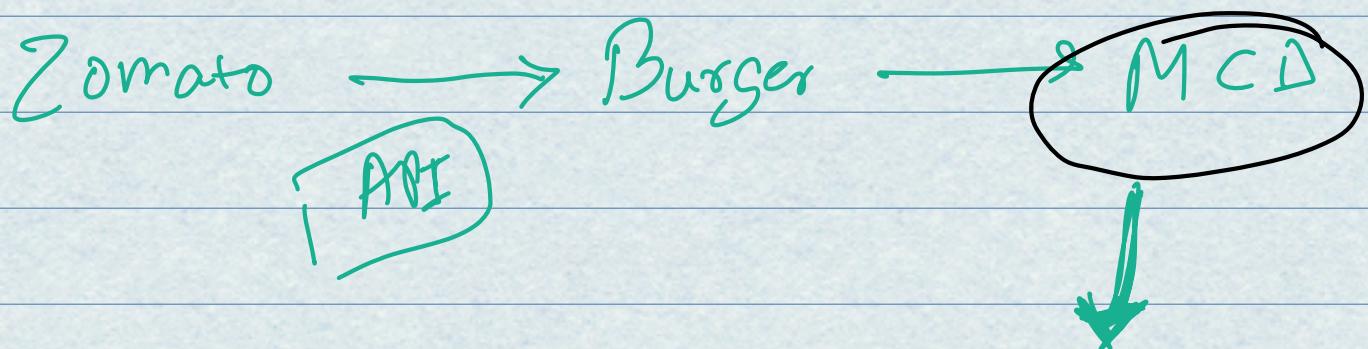
}

4



parse \Rightarrow turns back to JS object

API & use of JSON data



API

Application
Programming
Interface.

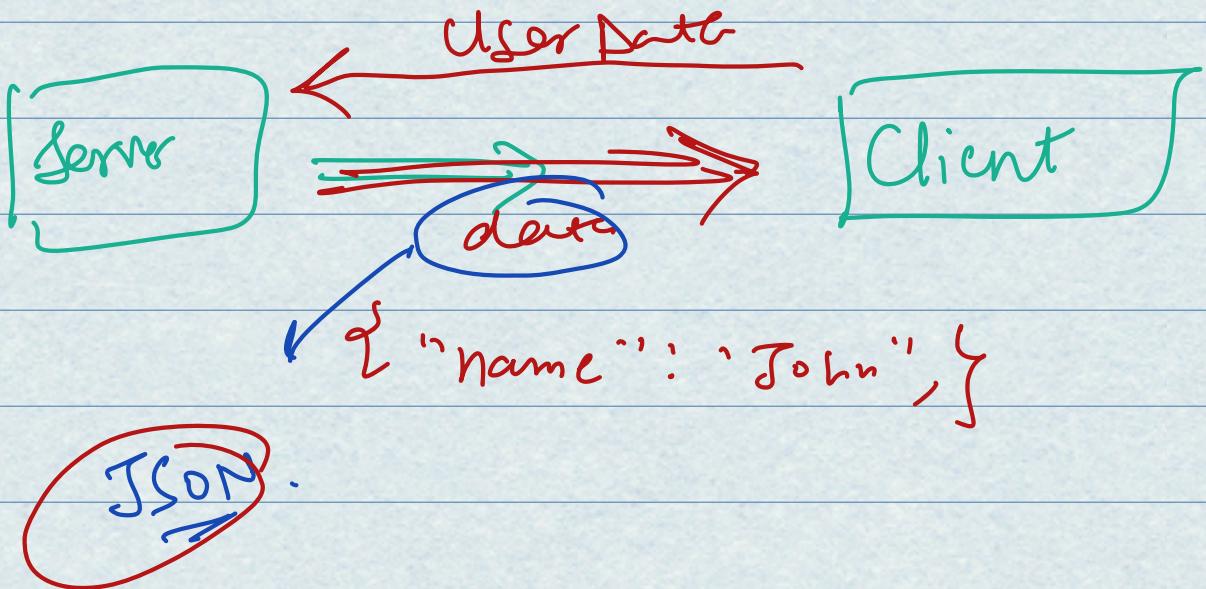
API

JSON

→ set of rules to transfer data
across servers, systems, application.

Role of JSON in an API

① Requesting the data



② Respond to request

③ Easy to integrate

- ↳ JSON popular in API environment.
- ↳ libraries present in Python, etc.
- ↳ understand JSON string simply.

④ API endpoint

✓ Create User /create

USER



get user /get

update user /update

✓ delete User /delete

Each endpoint has its own responsibility.

* Overall,
API is interface to
communicate between two
sys. stms.

WEATHER APP PROJECT

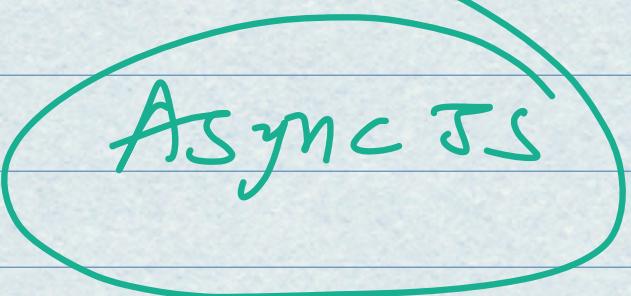
Functionality :

① Search city →

② Show card info ↴

- ① City name
- ② Temperature
- ③ Condition [hot] [cloudy]
- ④ Date / Time

③ Data ⇒ API
(weatherapi.com).

API →  Async JS

. Promise
,

- then
-

async function fetchData(){

- - - -
{