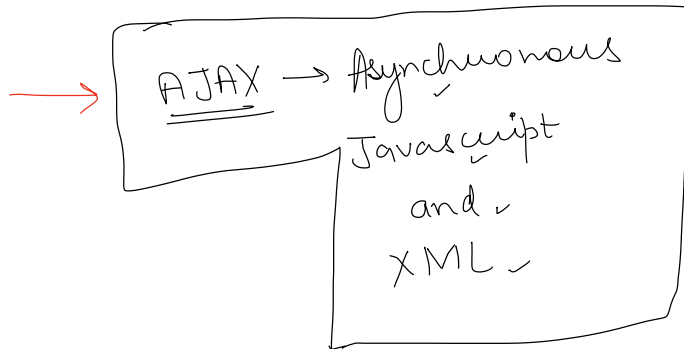


# AJAX & API'S



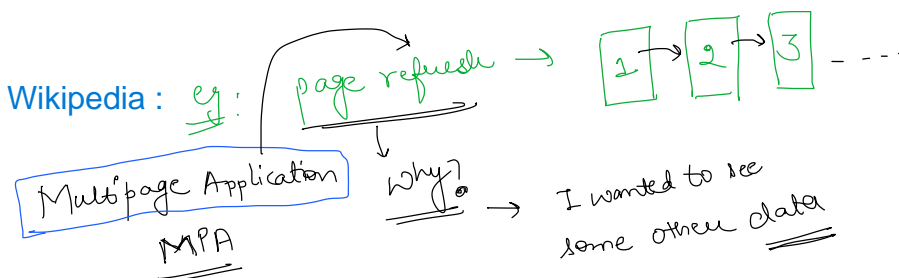
What is AJAX \*

- library ✗
- framework ✗
- tool ✗
- Object ✗

Ajax is a simple web technique used to stop the refreshing the page when the content is changed.

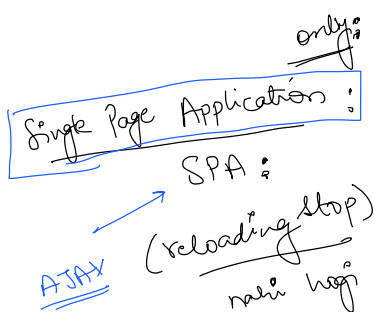
Simple Web Technique

usage:



Without Ajax the page refresh when we want to see some other data.

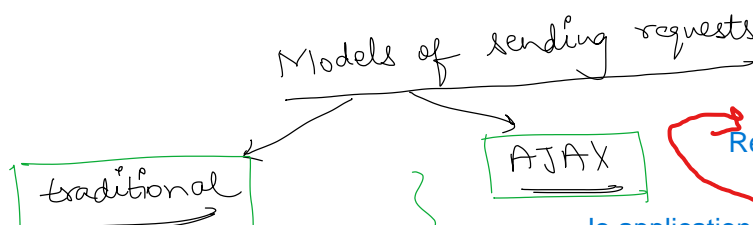
Data is being changed



Ajax help in changing the content of Page without reloading or refreshing the page.

matlab jinme

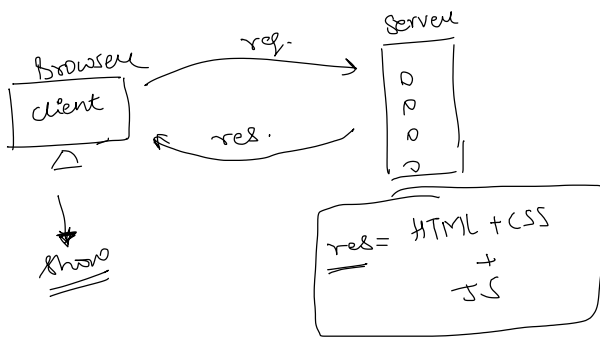
Refreshing hoti hai



Refreshing nahi hoti hai

Jo application traditional ki help se banti hai unhe MPA kehte hai.

Jo application Ajax ki help se banti hai unhe SPA kehte hai.



### Traditional :

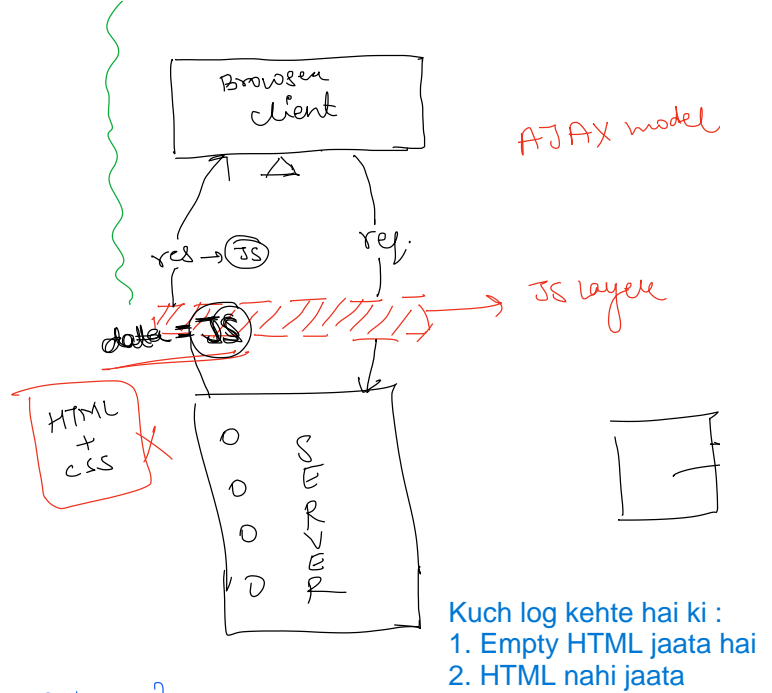
When the client sending the request to the server then the server respond according to the request and makes HTML, CSS and JS code then sending the response to the client and the browser displays the response on the browser.

### Ajax Model :

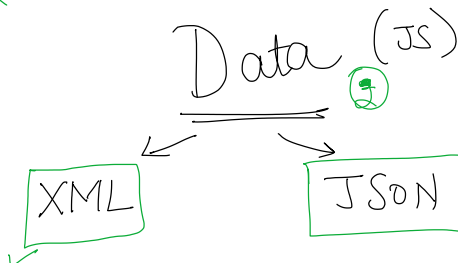
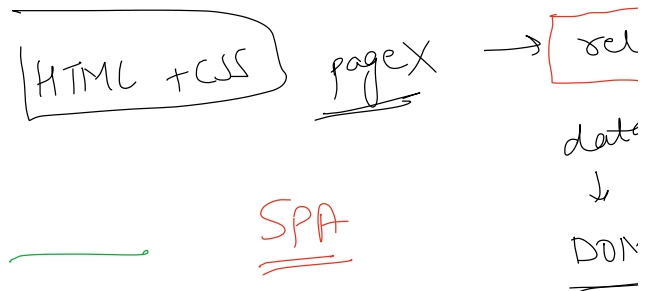
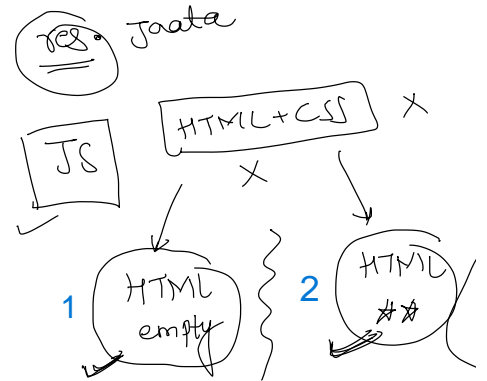
When the client sending the request to the server then the request is first pass through the JS layer present b/w client and server then the server sends the response to the client which is also pass through JS layer then go to Clients Browser.

In Ajax model when the server sends the response it only contains the JS code not contains HTML and CSS code.

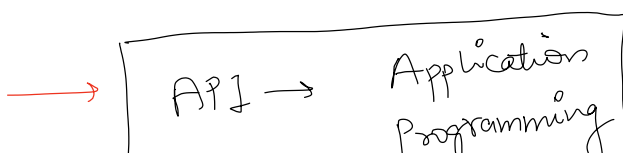
1. Ab hamara Html aur Css nahi bana iska matlab koi page bhi nahi banega agar koi page nahi banega toh page refresh bhi nahi hoga.
2. Hame kevel Js ka data milega jisse hum DOM ke through manipulate kar sakte hai aur page pr display kar sakte hai.

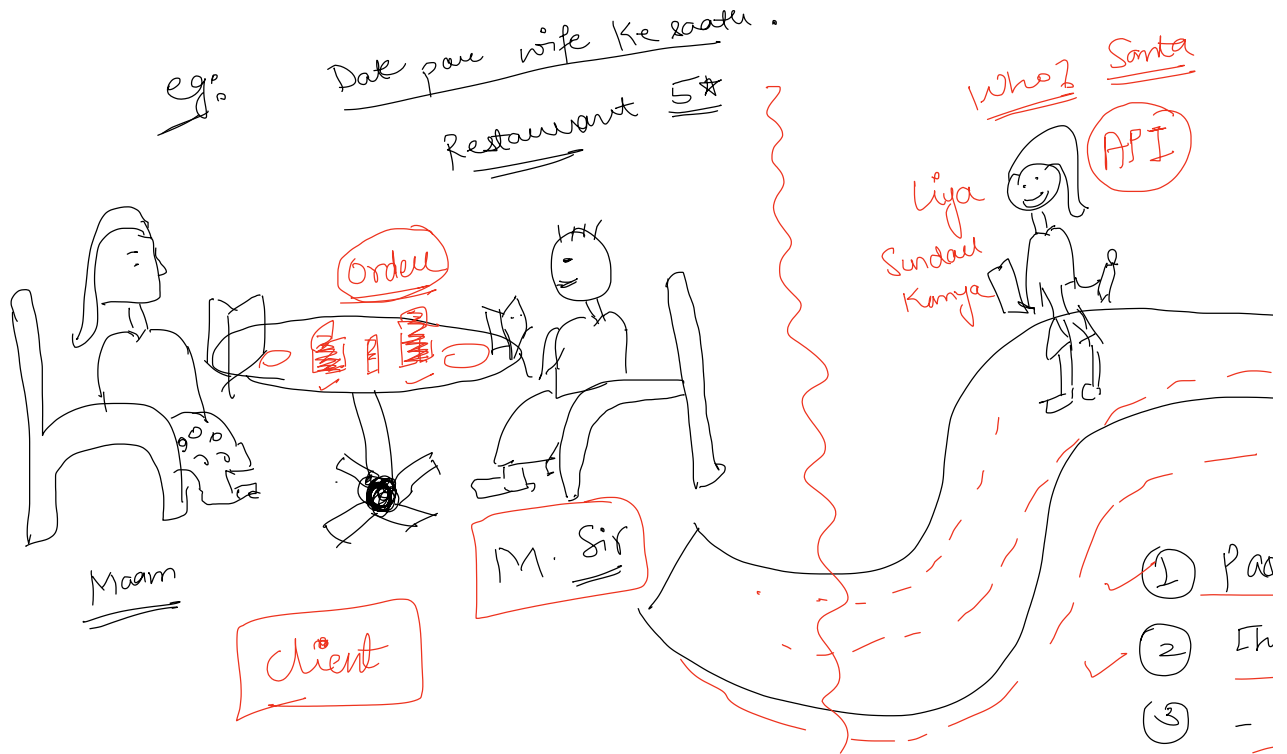
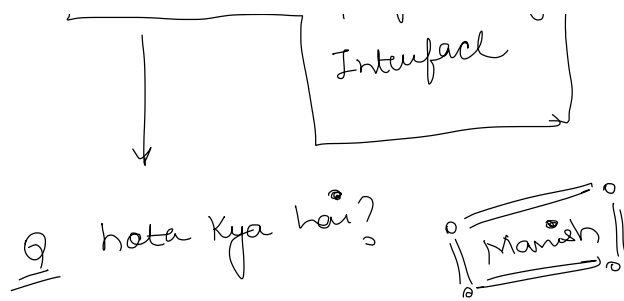


### JS Layer?

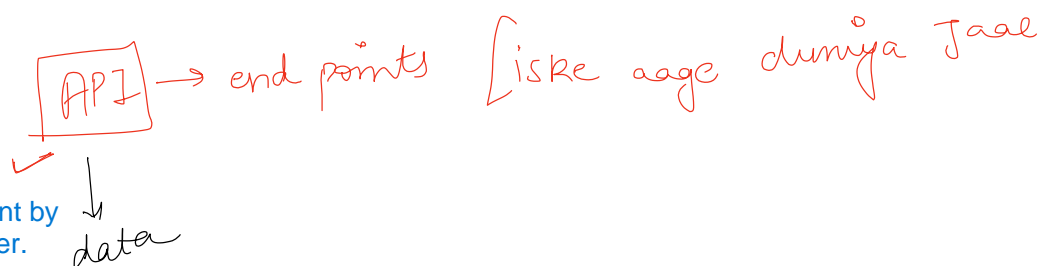
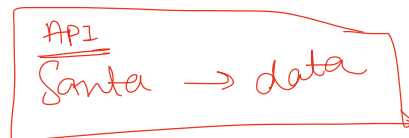


- XML → Xtensible Markup Lang.
- \* JSON → JavaScript Object Notation



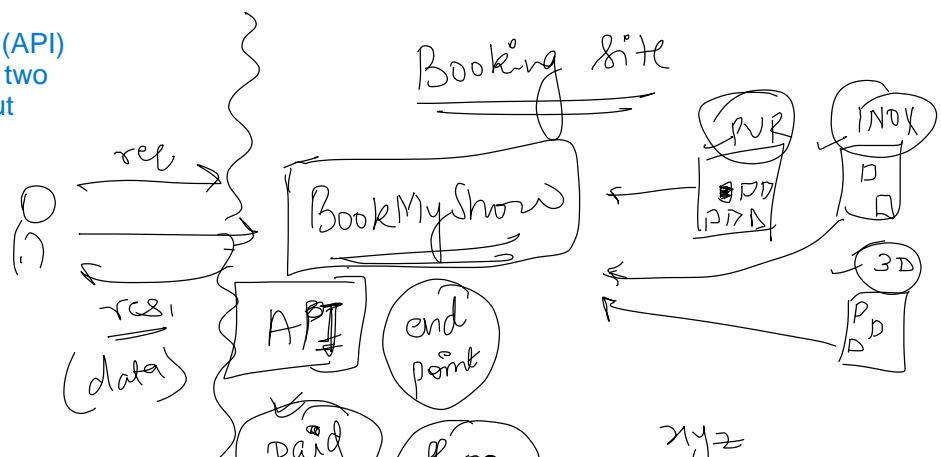


Example Link :  
<https://media.geeksforgeeks.org/wp-content/uploads/20230216170349/What-is-an-API.png>



API provide the data to the client by fetching the data from the server.

Application Programming Interface (API) is a software interface that enables two applications to communicate without requiring a user to get involved.

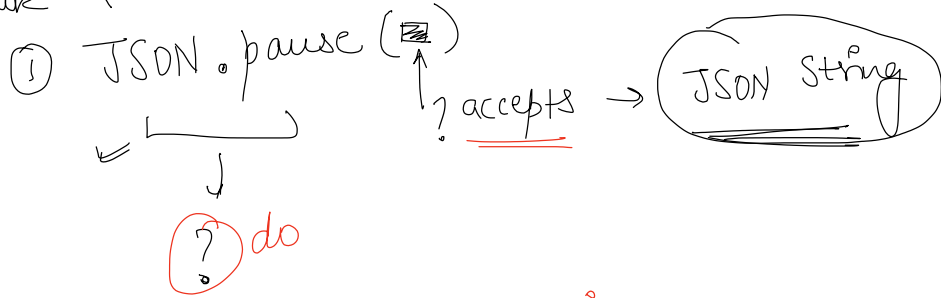




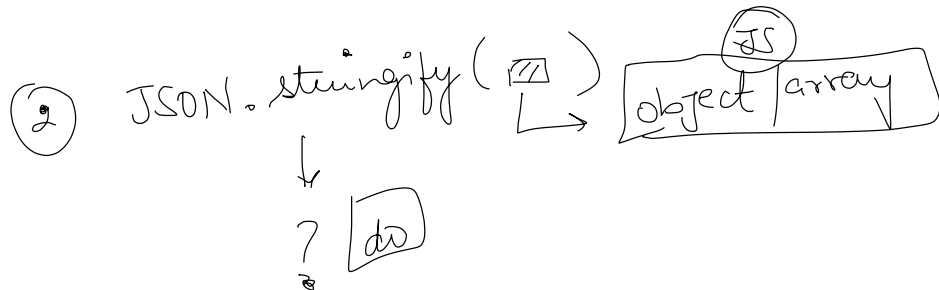
## JSON (2)



directly you cannot work



converts your JSON string into a usable JS object or JS array.



converts to a JSON string

## # Sending Request Using JS

ways by which I can call APIs inside JS

- ① XMLHttpRequest() → Web APIs
- ② fetch()
- Libraries (3rd party) → Lib
  - jQuery \* ignore

( set Timeout  
console  
setInterval  
fetch  
XML-

L

3/1/2020

Jquery ka istemal na ke barabar kiya jata hai data fetch karne ke liye.

# XMLHttpRequest

is a constructor func<sup>n</sup>

used to

Create object

methods

(bohat saare)

client ==> [S]

(object)

req. open (GET, 'Api')

methods

(GET, POST, PUT, PATCH, DELETE)

MERN

✓ → Get → retrieve / fetch [Lena]  
✓ → post → bhejke [Dena]

See the use of XMLHttpRequest on github