

# Q Why do Front-End Frameworks Exist?

Q, why not use Vanilla JS → to render our apps

Olden days

Only Server Side

Rendering was possible

Example

One good eg

All the websites that

are built with

wordpress

(to add simple dynamics to the page)

① simple animations

② hover effects

JQuery

This was helping

(made JS work the

exact same way

across all the browsers)

Rendered webpage

you will get the webpage

This resultant webpage is sent to the client who requested it

(basically the browser)

takes the code and simply paints it on the screen



Over time → Developers started writing more and more JS code to be executed by the browser

↓  
This became fully fledged web applications → which led to the rise of Single web page applications  
webpages that are rendered on the client side (not on the server side)

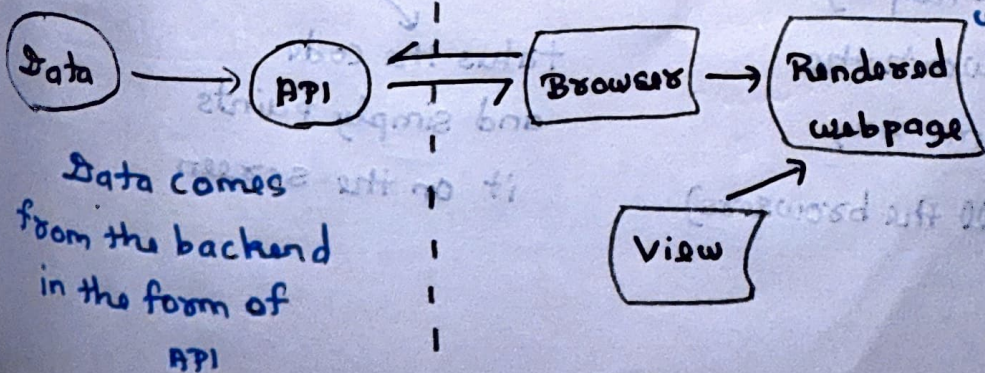
(All the Server side rendering is now done on the client side)

### Client Side Rendering

(we don't call it webpages anymore)

we rather call them as web apps)

(Still needs data which comes from the backend in the form of API)





Application consumes the data from the API → renders a screen for each view of the application

(Server Side Rendering

frameworks are getting built) → Next.js

Remix

Modern client side

Rendering frameworks

Building front end user apps

① Handling data

↓  
Displaying it in a user interface

(most imp role of a front end/app)

→ keep the User Interface stay in sync with the

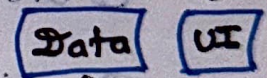
Problems with Vanilla JS and JQuery

① Requires lot of direct DOM manipulation and traversing → (lot of boiler plate code)

② Data (State) → usually stored in the DOM (shared across the entire app)

→ you end up creating your own frameworks (which wouldn't be well established than all

Result  
we end up with  
with many parts of the app accessing and changing DOM state directly





why do front end frameworks exist?

① keeping a user Interface in sync with data is Really hard and lot of work

(front end frameworks takes this complex data of synchronizing data with UI)

So that we can focus on the Data

Building the User Interface

② enforce a correct way of

① Structuring the code  
② writing

came up with a good idea/way of structuring apps

③ They give developers and teams a consistent way of building

front-end apps

(with less boiler plate code) So that other developers can follow these well in order to build better applications