

## Day-5 (React)

Saturday, 19 April 2025 5:08 PM

# React

Q What → library

Q library

- \* flexible, use it the way I want.
- \* light weight code
- eg: React, JQuery

## framework

- \* rigid, fixed set of rules.
- \* bulky codes
- eg: Vue, Angular, Nextjs

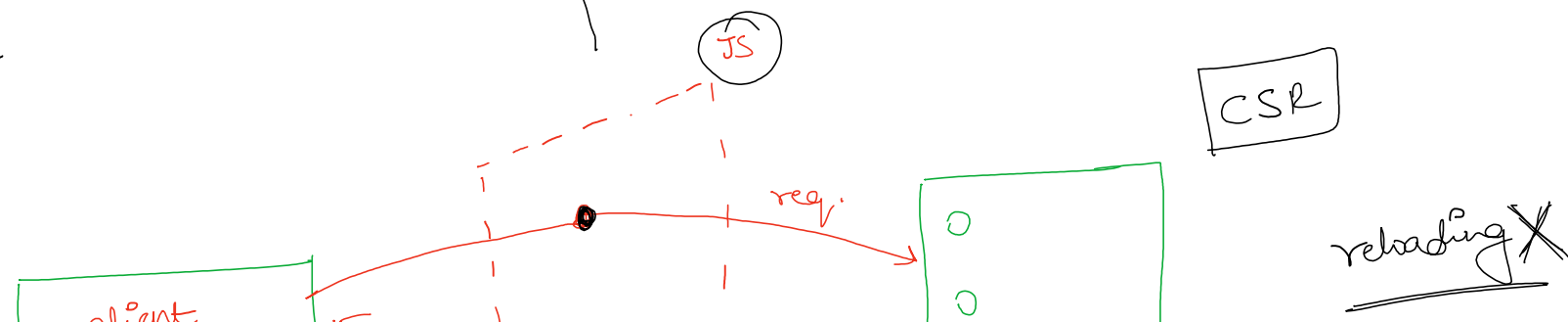
### # Advantages

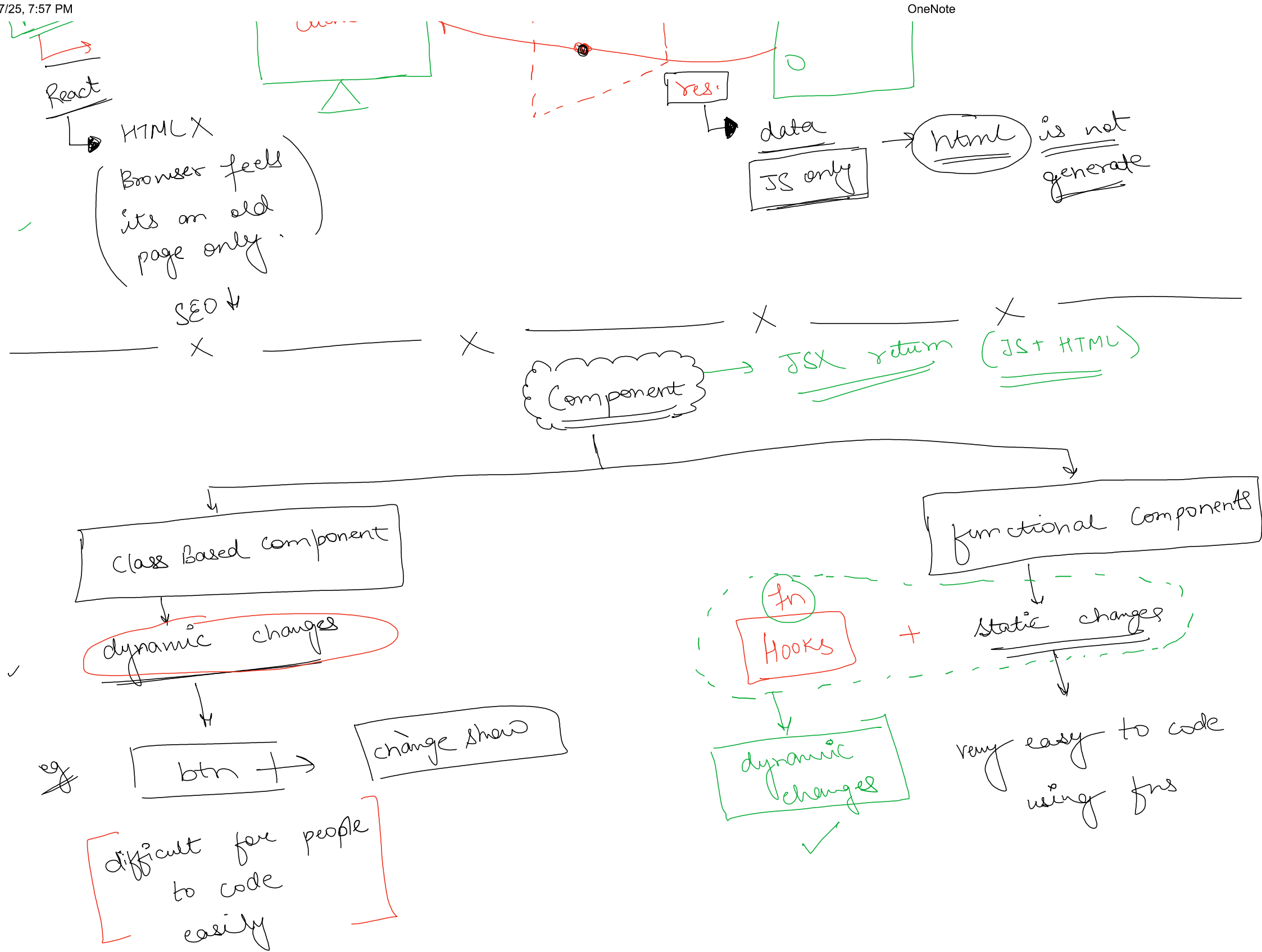
- \* reloading X
- \* Virtual DOM
- \* Component Based
- \* JSX
- \* SPA

### # Disadvantages

- \* SEO poor
- \* only for FE
- \* does not have own router
- \* unidirectional data flow

✓ AJAX





# functional Components

↳ (Rafce, Rfce, rfc, rafce) → not preferred X

default

named

default

named

#

不

Done

2

1

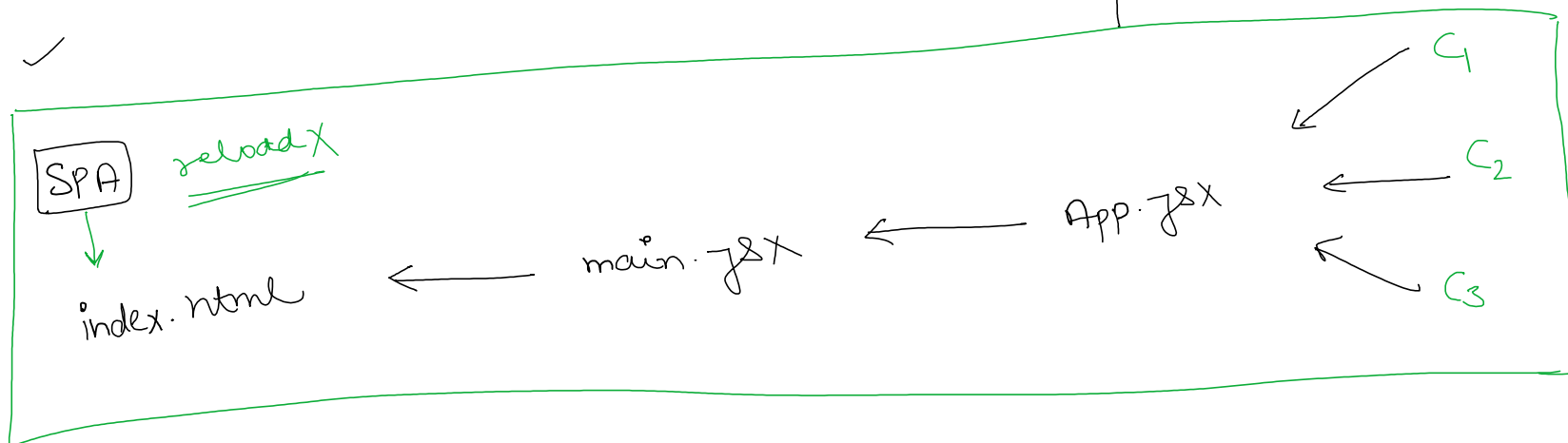
#

7

7

our immutable

OneNote  
States → mutable  
all



hierarchy

Variables can change but the changed value is not reflected over the UI.

# useState() → variable → UI shows the change.

Q why console is not showing the change -  
→ setState() ⇒ Async behaves

Counter ✓ ⇒  $\begin{pmatrix} +1 \\ -1 \end{pmatrix}$  ✓  
i.e.  $(+1, +1, +1)$

# trust  $\Rightarrow$ 

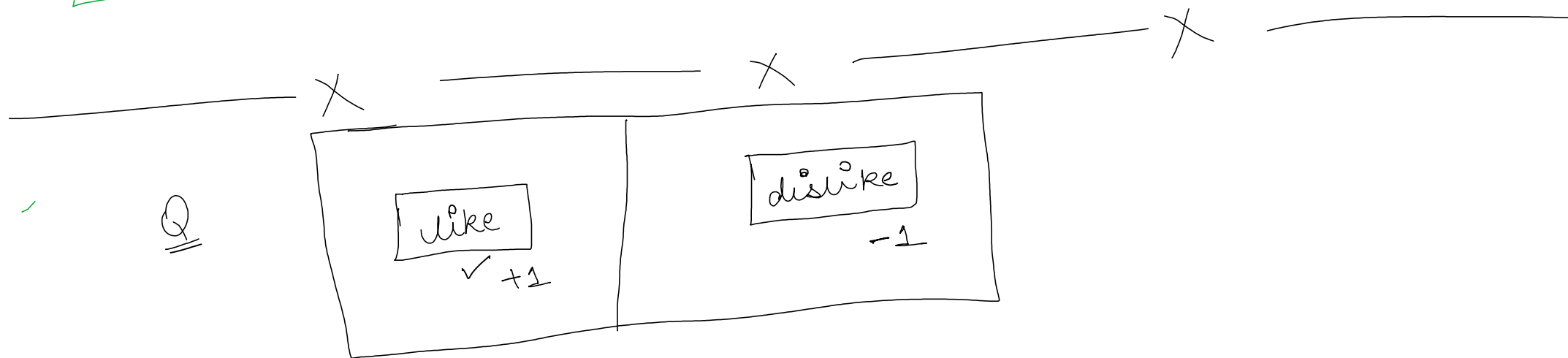
+3
-3

 i.e. -1, -1, -1

vmf. # Batching

Whenever there is a change in state, the component renders

iii render the component optimisely



# useEffect()

When we want to perform sideEffect  $\rightarrow$  (Something that doesnot change DOM directly)

setInterval  
 setTimeout  
 fetch 2 API calling

OneNote

U T and U

Don't direct change X

✓✓✓ ( count ⇒ changes )  
pen

When the component is rendered for the 1<sup>st</sup> time

2nd time?  $\Rightarrow$  when there is  $\rightarrow$   
array & that thing changed.

Every time the component ~~re-renders~~  
useEffect runs again & again.

