Day-1 (React)

Friday, 11 April 2025   8:35 PM

\# **React** ✓ → **more effective, efficient, Less code**

1000

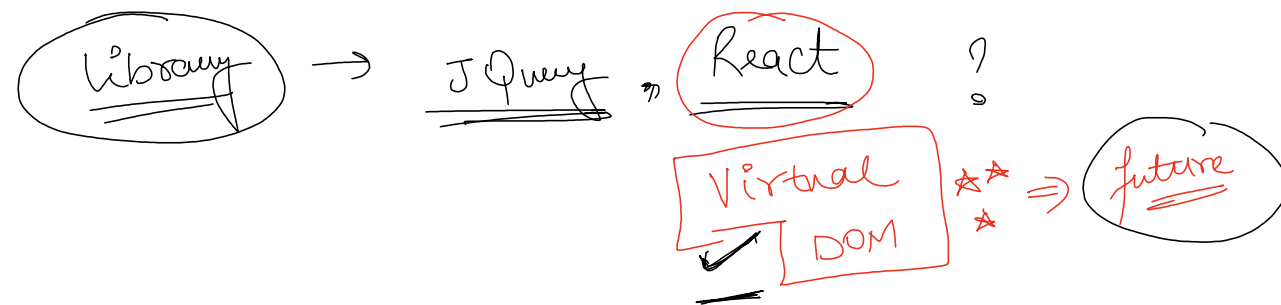**library of** **JS**

$\underline{Q}$ What is React?

Angular, Vue	React ?
Framework	library (UI) f.E
• heavy code	• light code
• rigid	• flexible

Library → JQuery ,, React ?

Virtual DOM ✓ ☆☆ ⇒ future

V.V.V.Imp \#

Advantages of React :

• Faster (rendering) ⇒ library

• (syntax html +JS) ✓

• JSX

• ...based architecture ⓝ

pride

\# Disadvantage :

① unidirectional data flow   P→C

② SEO ↓ (Bad)

code

- Component ~~~~
- (unidirectional) (disadvantage) (N)
- virtual DOM ✓
- SPA (single page application)
  no reloading
- It only renders the changed part & not the entire UI.

Virtual DOM (v.v.imp)

(Currently VD) (Before)   (after)   about to be DOM

UI

Comparison

click   New
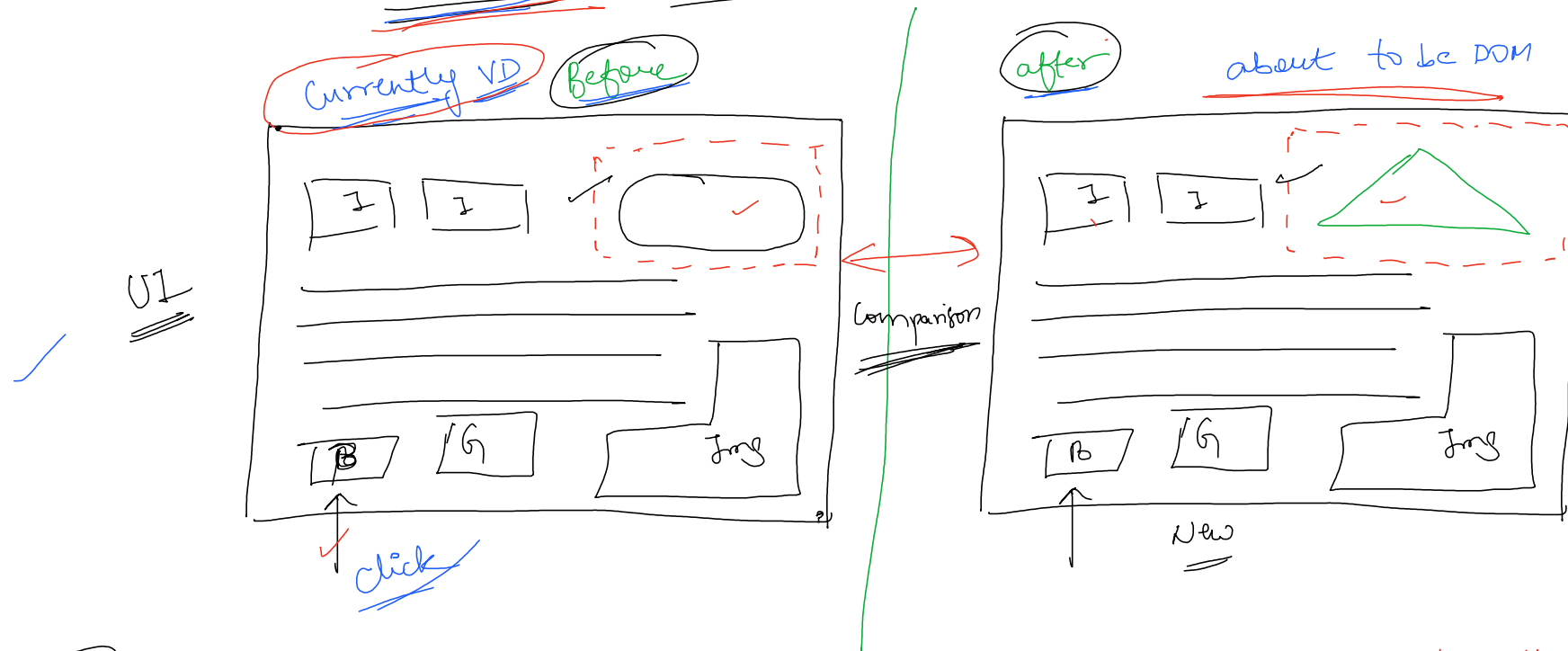
R-C
RD-D

checks the difference → only the difference part is recreated

React fibre? ✓

comparison? ⟹ Reconciliation   algo

| Component Based Architecture |

Delhi   Advantages:
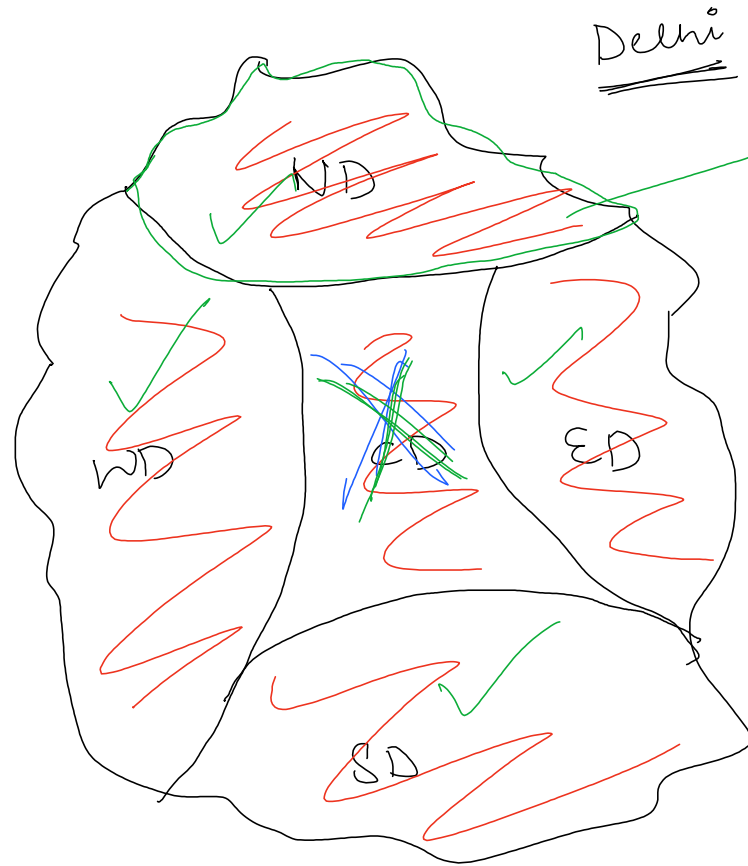
- reuse anywhere
- anything breaks your application is still up. (working)
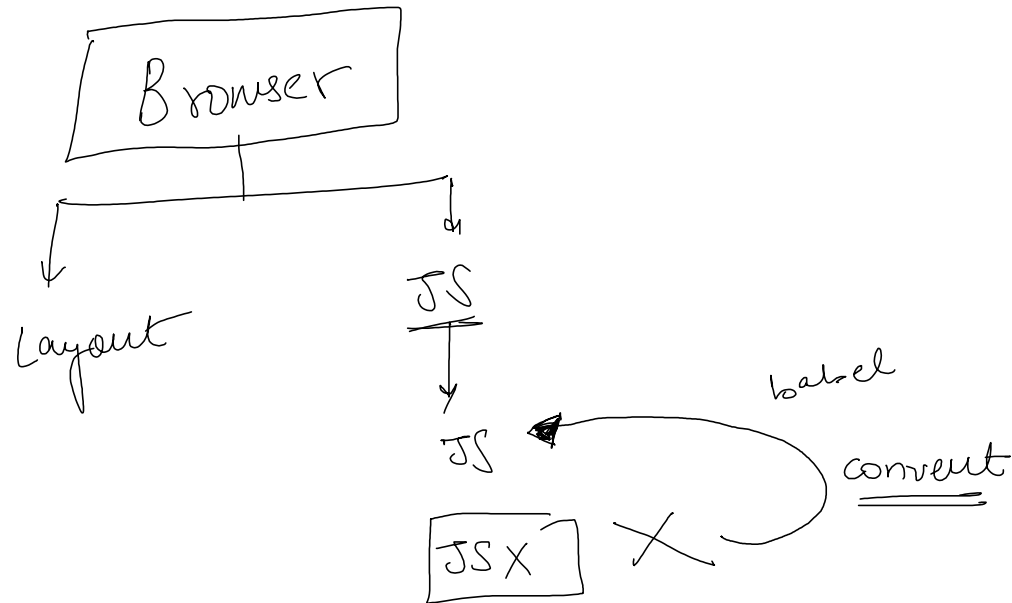- Divide code (create big applications)

React is (JS) library

Can we create something like our own React. (scratch)

CDN

React = create

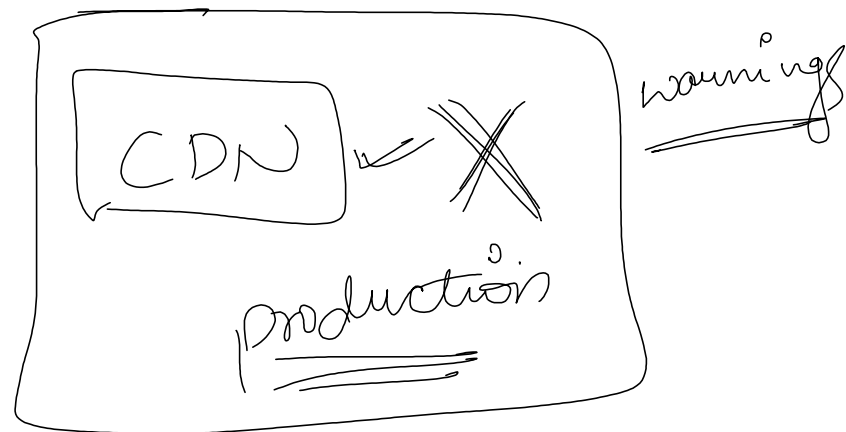ReactDOM = display (what react has created)

JSX → html + JS   together

html JS   ~~script~~

Browser

Layout   JS

JS ← babel convert

JSX X

JSX → JS

Babel (compiler)

CDN X   warnings

Production

babel

JSX ——⟍
⟍ JS ⟍
JSX —— JS ⟍⟶ ⟶ JS ⟶ html
JSX —— JS ⟶
JSX —— JS

Bundlers ⟶ manages

⟶ create react apps (dead)
⟶ vite ✱ ✓
⟶ parcel ✓

react   vite
  node   npm

before
next
class