# 35. React (4) IMDB Setup, Client Side Routing. React Router

Agenda:
- Use Effect hook
- Routing (Client Side routing)
- React Router
- Setup of routing
  - Public
  - Private
  - Not found
- Adding routing to project
- CSS → Tailwind CSS
- Discussion about project (IMDB).

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## # UseEffect

o Manage side effects of a component.
o Manage lifecycle of a component



   Mounting
   Updation
   Unmounting (destroy)

```
Class   MyComponent   {
      Constructor (props) {


    }

  Component DidMount ( )   {
      // whatever reqd. in initialisation

  }


Component Did Update ()   {

  // maybe to update .
  // Automatically gets called whenever state or props
}                                          are updated.



Component Did Unmount ()  {

  // on Destroy,  this used to get called.

  }
```

Now )

**in Functional Comp.**

```
useEffect ( ( ) =>    {

        .  .  .  .

    } , [...]
)
```

↳ Mounting
updating
Unmounting

useEffect → Side effects
↓

- ∘ It should not block UI rendering.

- ∘ Used for async code loading API calls / data fetching, subscriptions (subscribe to events)

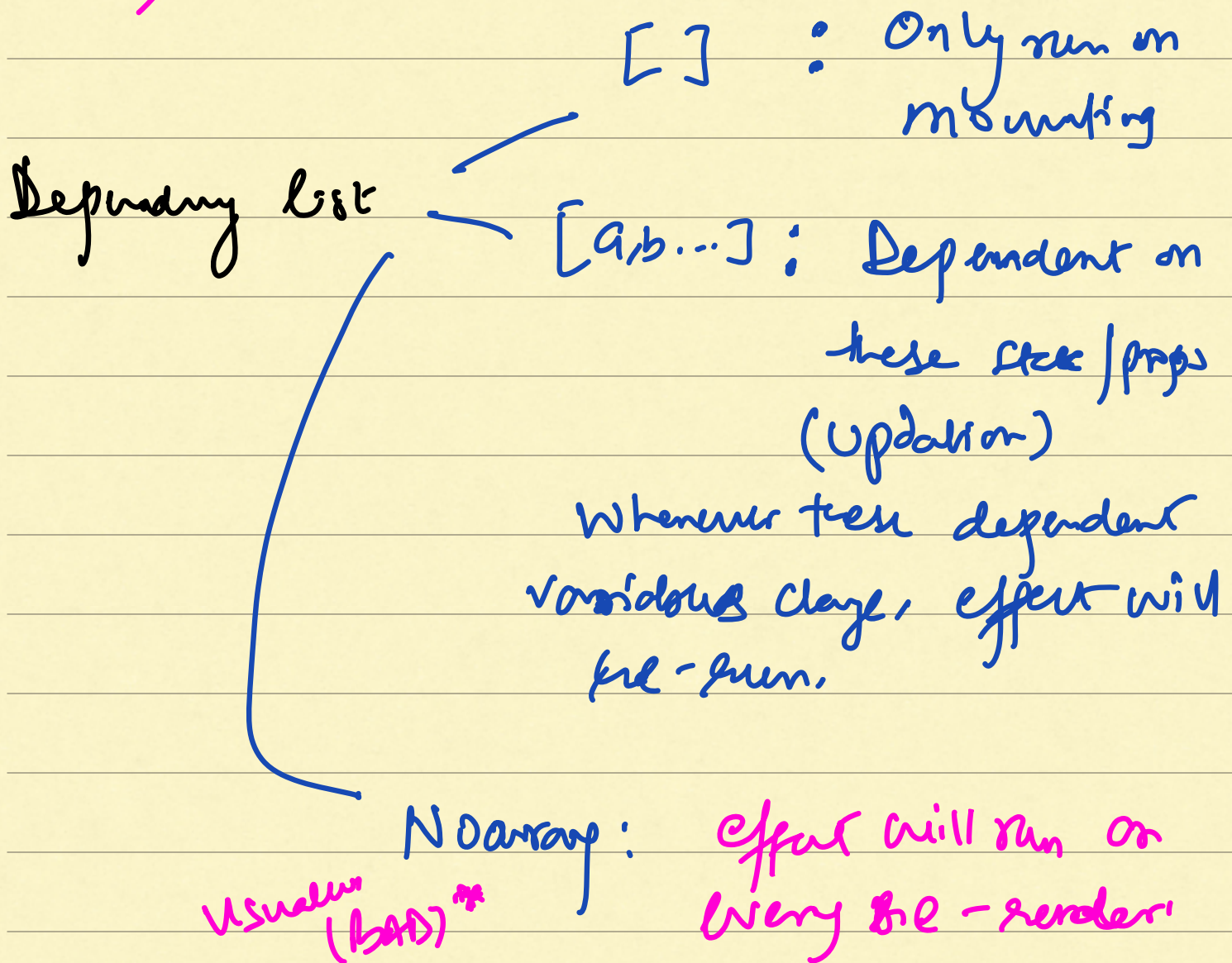- ∘ Timers ( Auto refresh )

UseEffect ( () => {

:===

← Side effect function

}, [...]

of dependency list

)

[] : Only run on mounting

Dependency list

[a,b...] : Dependent on these state/props (updation)

Whenever these dependent variables change, effect will re-run.

No array: effect will run on every re-render.

Visually (BAD)**

```
useEffect ( () =>    {
        : :
        : :

    return () =>    { . -- } ;

    },  [ ]
                  ↑
)             dependency list
```
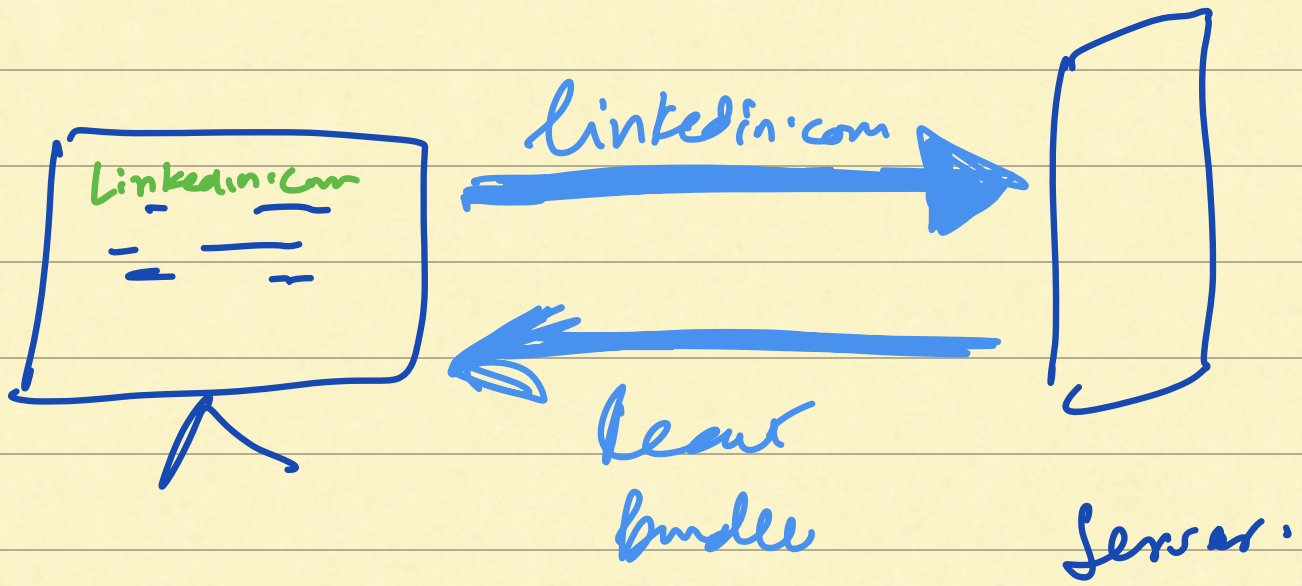
Cleanup
function.
(Unmounting)

# ROUTING



Client
[Browser]

Url change, app doesn't reload

/home     ⟶     < HomeComponent />
/obama    ⟶     < About component />

{ Cart    ⟶     < Cart >
                    < Payment />
                </ Cart >

# Immersive app.

⬭ load time slow,

$$req \longrightarrow BE$$

Component
UI        data

browser loads request
from initial UI. {

minimal data bundle of the
application

`<Link/>` ← fm react router dom

over `<a>`

- No page reloads with `<link/>`
- Better performance.
- Syncs with Router (Integration easy with React Router DOM).

## # Template Routing / Dynamic Routing

Anagynian / Users / ①  (UserID)

/ Uses / ②

/ Uses / ③

has to be dynamic.

Code an API (Integrity BE)

User ID ⟶ Browser URL.

Based on result of API,

flow the data on UI.

id=1
{
  { Name
  / email
✓/  address
  }  iD:1

id=2
  {
    — —
    — —
    —.
    =
  }

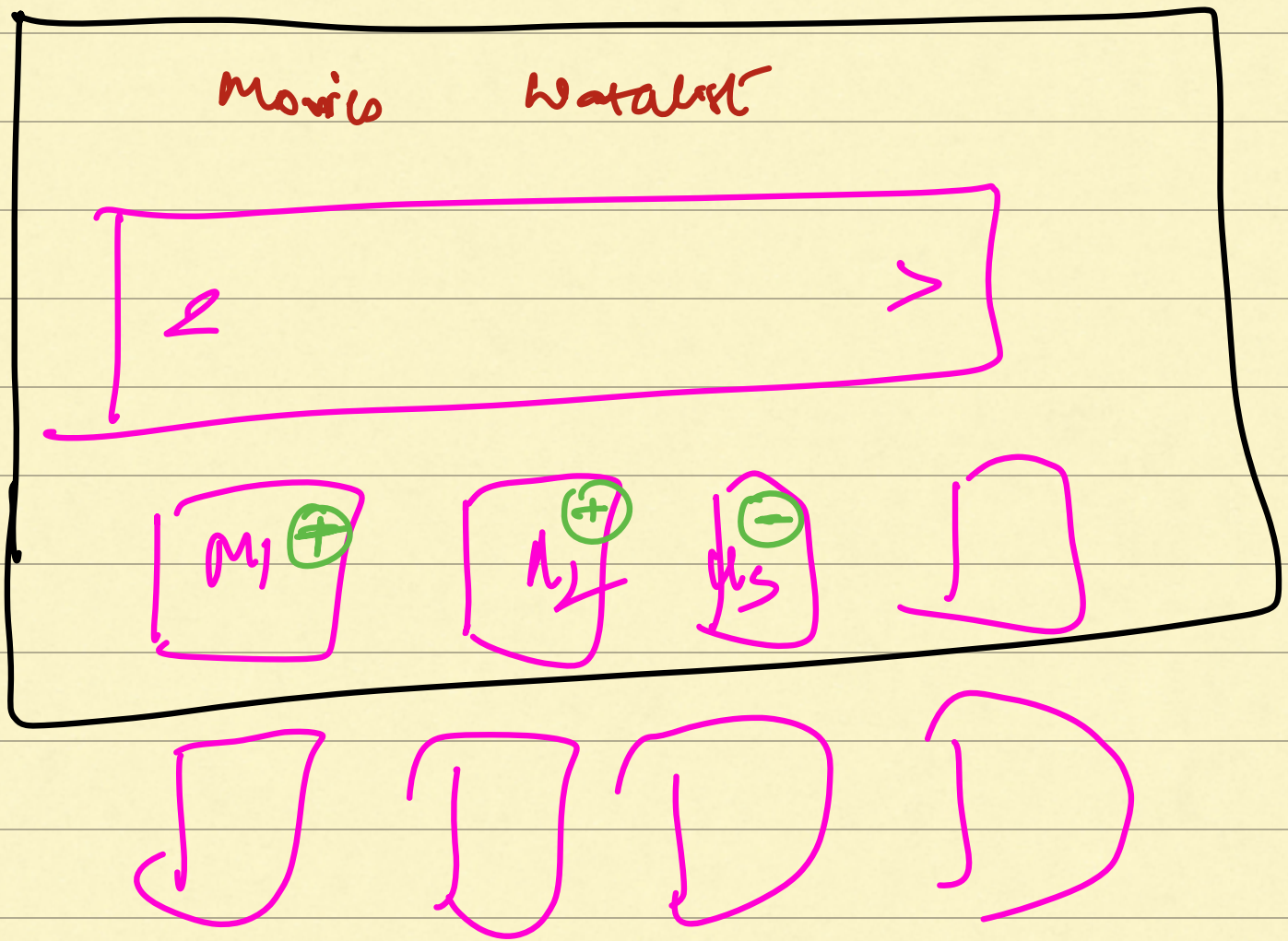# IMDB project

- Imdb clone
- Fetch real time trendy movies/shows
- Grid format (IMDB.com)

Features:

- View latest/trendy movies
- Create own watchlist
- Filter movies genre
- Search movies
- Sort movies
- Pagination
- Deploy code to netlify.

Movie      Watchlist

M₁ ⊕   n₂ ⊕   th₃ ⊖

✓ CSS ⇒ TAILWIND CSS

POSTCSS ⟶ Allows transformation of CSS
with Javascript.
Allows to write future CSS

Autoprefixer → Plugin for postcss,
parse f css.
support in all browsers.