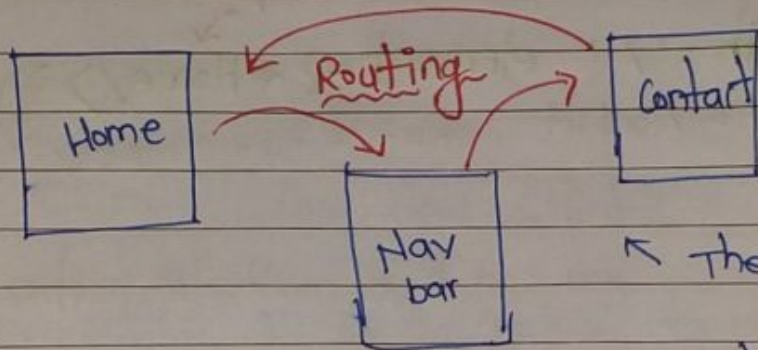


# # React Router → SPA approach

avoids page  
from reload!

single HTML file ∴ single page  
dynamically changing the UI

truelines  
DATE: \_\_/\_\_/\_\_



These all are not  
"pages"  
They're components.

"React is all about components." 😊

One line →

→ we can navigate betn multiple pages without refreshing the page..

install → `npm install react-router-dom`

now, to make ur app ready for routing, wrap your `<App>` component inside `<BrowserRouter>` tag.

inside index.js  
`<BrowserRouter>`  
`<App/>`  
`</BrowserRouter>`

→ import { BrowserRouter } from  
"react-router-dom"

Now, we will be defining routes / paths..

this is nothing but routing.



## # Creating your own routes

import { Routes, Route } from "react-router-dom"

↳ you need to define `<Routes>` tag  
& inside this tag you can create a single route

`<Routes>`

`<Route path="/" element={ <Home /> } />`

`<Route path="/contact" element={ <Contact /> } />`

`</Routes>`

component  
↓

↑  
you can have multiple routes..

## # edge cases

① path = "/" → this is your home page / by default

② path = "/contact" → this is also valid  
↑ any component

③ path = "\*" → when any of the route is not matched  
↓ basically page not found..

↙  
user can't type URL of your component all the time  
that is the reason we create navbar..

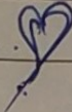
now, we connect our routes with the components..

↓  
& that work is done by `<Link to=" " />` tag

It is same like `<a>` tag



i.e. `<Link to="/"> Home </Link>`  
`<Link to="/about"> About </Link>`

& so on... 

## # What is NavLink?

↓  
it behaves same like `<Link>`

+  
also add's an active class to the current route

what does that mean ????

↳ Home About Contact

in normal case (`<Link>`) when you click on any button you won't see any changes in your HTML

→ to see the changes inspect

---

but, `<NavLink>` -- Home  
About  
Contact

now, when you click on any button then,

class = "active"  
is automatically added to the current route only.

..now in your index.css you can define

• active {

color: aqua;

}

Home About Contact

→  
This is the benefit of  
NavLink



Kya baat samajh mein aati hai ??  
↳ Yes 😊

# we know

"/" → Home  
/about → About  
/Contact → Contact

/ → Parent  
about --- → child's

∴ you can create Home as parent for other components..

<Routes>

<Route path="/" element={<Home />}>

<Route path="/about" element={<About />}>

<Route path="..." element={...}>

</Route>

</Routes>

but this is going to create one problem..  
i.e. Every time Home component is displayed..

↙ solution

write <outlet /> tag in Home component..

→ gives permission to render ~~default~~ child Routes

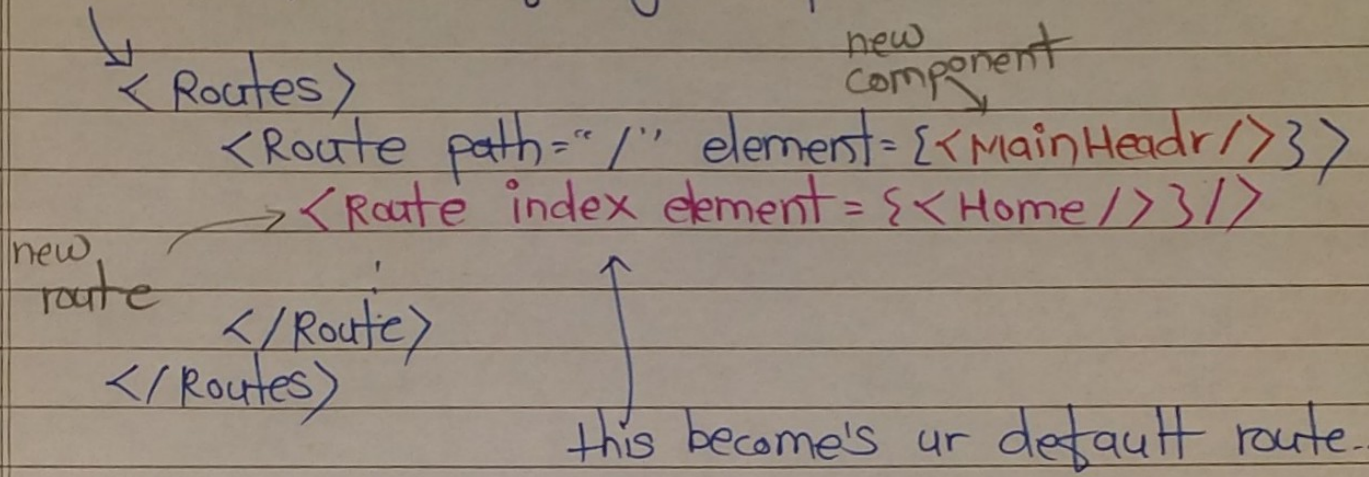
abhi bhi problem hai..

↳ two components are rendered at a time..  
i.e. Home & other everytime..



∴ Now, you define a new route which will render your Home component &

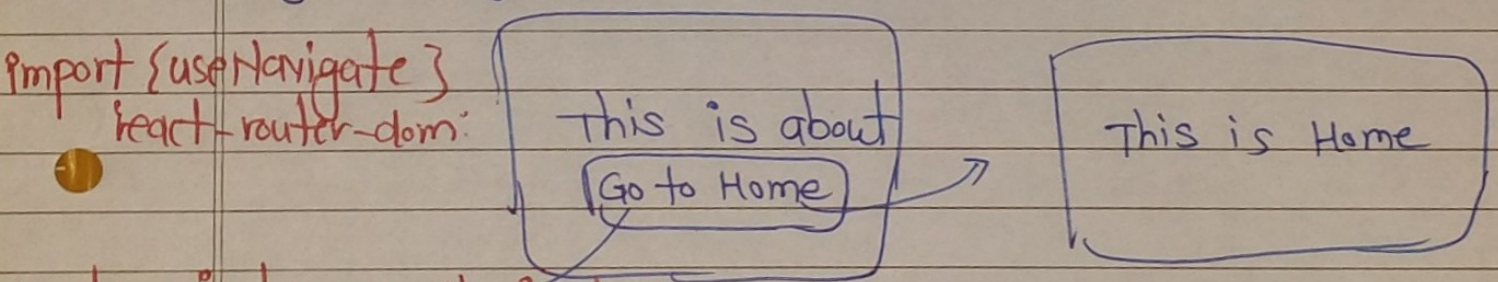
new component for your parent route..



## # useNavigate

↳ you can switch from one page to another by clicking a button.

e.g. if you are on about page..



const navigate = useNavigate();  
on Click = { pageHandler }

```
function pageHandler() {  
  navigate('/');  
}
```

navigate(-1);  
↓  
one page back  
on  
previous page

That's all 😊