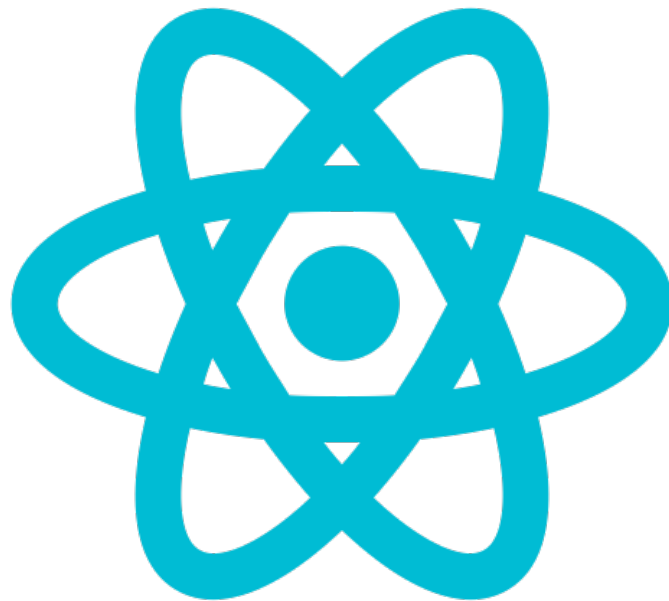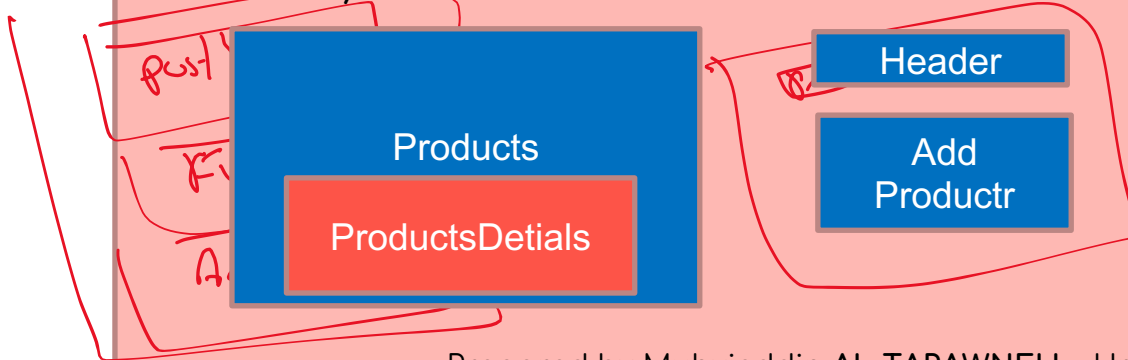REACT ROUTER

React router

- React Router is a standard library for routing in React.

- It enables the navigation among views of various components in a React Application, allows changing the browser URL, and keeps the UI in sync with the URL.

Products

ProductsDetials

Header

Add Productr

Prepared by Muhyieddin **AL-TARAWNEH**,   Umur **INAN**

Browser router

- BrowserRouter is a router implementation that uses the HTML5 history API(pushState, replaceState and the popstate event) to keep your UI in sync with the URL.

- It is the parent component that is used to store all of the other components.

Prepared by Muhyieddin **AL-TARAWNEH**,   Umur **INAN**

Routes

- **`<Routes>`**

- It's a new component introduced in the v6 and a upgrade of the component.

- Routes are chosen based on the best match instead of being traversed in order.

Route

- **`<Route>`**

- Route is the conditionally shown component that renders some UI when its path matches the current URL.

- Supply the component to be rendered to the Route component as element props.

- We can also supply custom props to the components in each route that we wish to render.

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Route

- If you want to display a 404 page when the path does not match with any of the routes, then you can define a route with path as *.

- The order of Route components does not matter.

Route - example

```
<Routes>
  <Route path="/users" element={<UserComponent />} />
  <Route path="/movies" element={<Movies genre="Action" age="13" />} />
</Routes>
```

Link

- Link component is used to create links to different routes and implement navigation around the application.

- It works like HTML anchor tag.

- The `to` property will determine the URL to which the user needs to be navigated.

`<Link to="/">Profile </Link>`

```jsx
const products = productsState.map(product => {
    return (
        <Link to={`${product.id}`} key={product.id} >
            <Product
                name={product.name}
                price={product.price}
                id={product.id}
                key={product.id}
            />
        </Link>
    )
});
```

useNavigate

- Redirects to another route.

```
const App = () => {
  const navigate = useNavigate();
  const onClick = () => {
    navigate("/home");
  }
  return (
    <div>
      <button onClick={onClick}>Go Home</button>
    </div>
  );

}
```

useParams

- To access the URL parameters of the current route.

- Returns an object that maps the names of URL Parameters to their values in the current URL.

```
let params = useParams();
params.id
params.title
```

Full details React router v6

https://reactrouter.com/docs/en/v6/api

Main points

- All websites have something in common: they are made of pages that share similar structures.

- A facet of SCI is that Order is found everywhere.

- Transcendental consciousness leads to increased adaptability and flexibility.