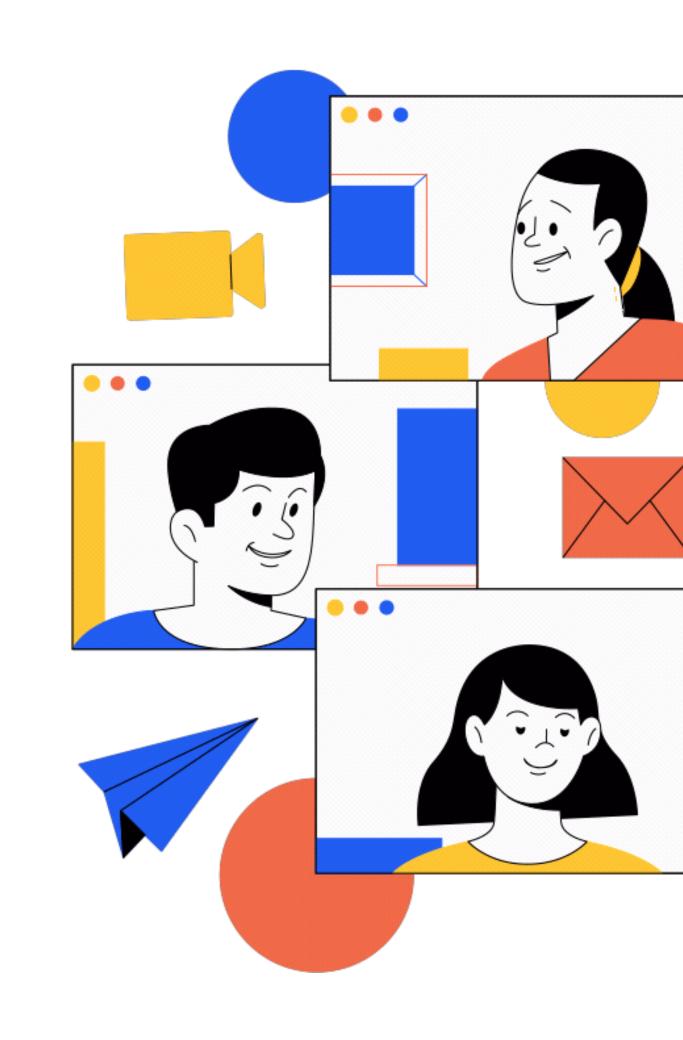


Week 3 - React Dev. Cross-Skilling ND

Brace yourself! We're going to travel through new pages >>

Ahmed Abdelbakey Ghonem

React Session Lead



Agenda

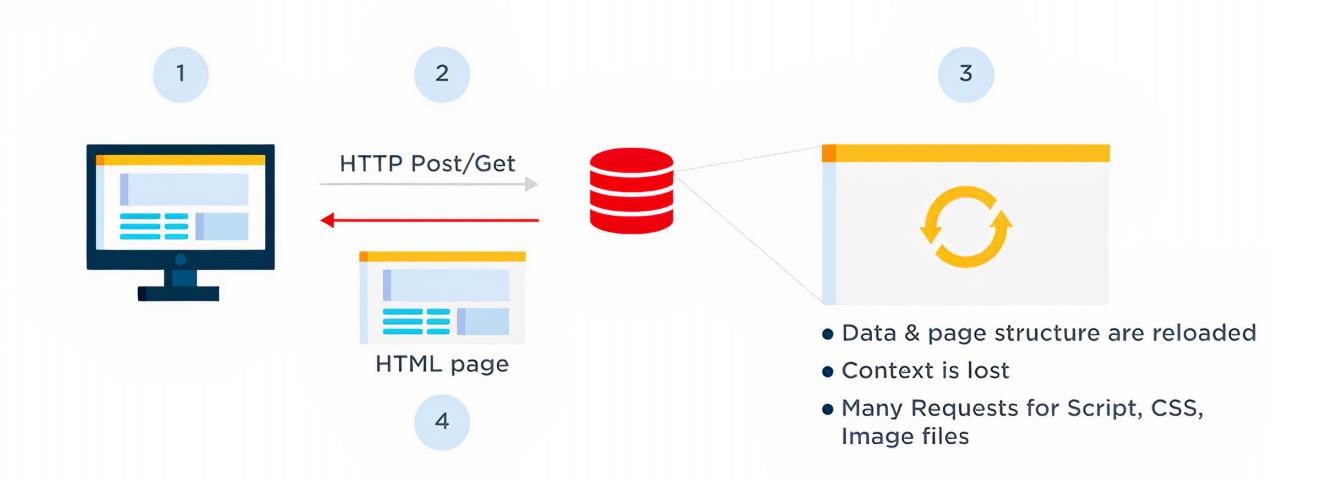


What we'll cover in this session

- Multi-Page Application (MPA)
- Single-Page Application (SPA)
- SPA vs MPA
- What is React Router?
- React Router Main Component
- Live Demo

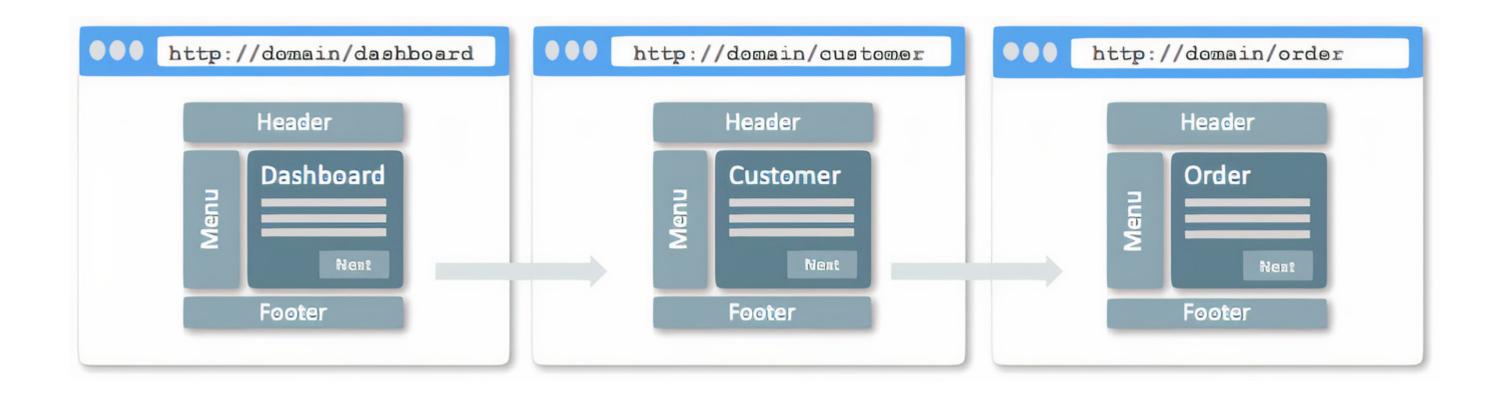
Multi-Page Application (MPA)

- A Multi-page Application is a web application consisting of a large number of pages completely refreshed every time when data changes on them.
- On Navigation, A whole new page is loaded from the server.
- Examples: Amazon, W3Schools



Single-Page Application (SPA)

- SPA is a famous type of web app where everything is loaded on start and Asynchronous JS files (that holds the data) are loaded on need.
- The main content is loaded once, And data is then transmitted back and forth.
- Does not require page reloading on navigation .
- Examples: Twitter



MPA

- **Grant Factor** FAST on first render
- **Better for SEO**
- Ease of Scaling
- X Reloads on navigation
- X Frontend and Backend are tightly couples

SPA

- SPA is FAST on navigating
- // Improved UX
- ✓ Data Caching
- X Large first rendering time

React Router >>

- **React Router** is a collection of *navigational components* (Library) that allows you to dynamically render pages on your website based on the current URL.
- React Router converts your React application into a Single-Page Application (SPA).



React Router Main Components

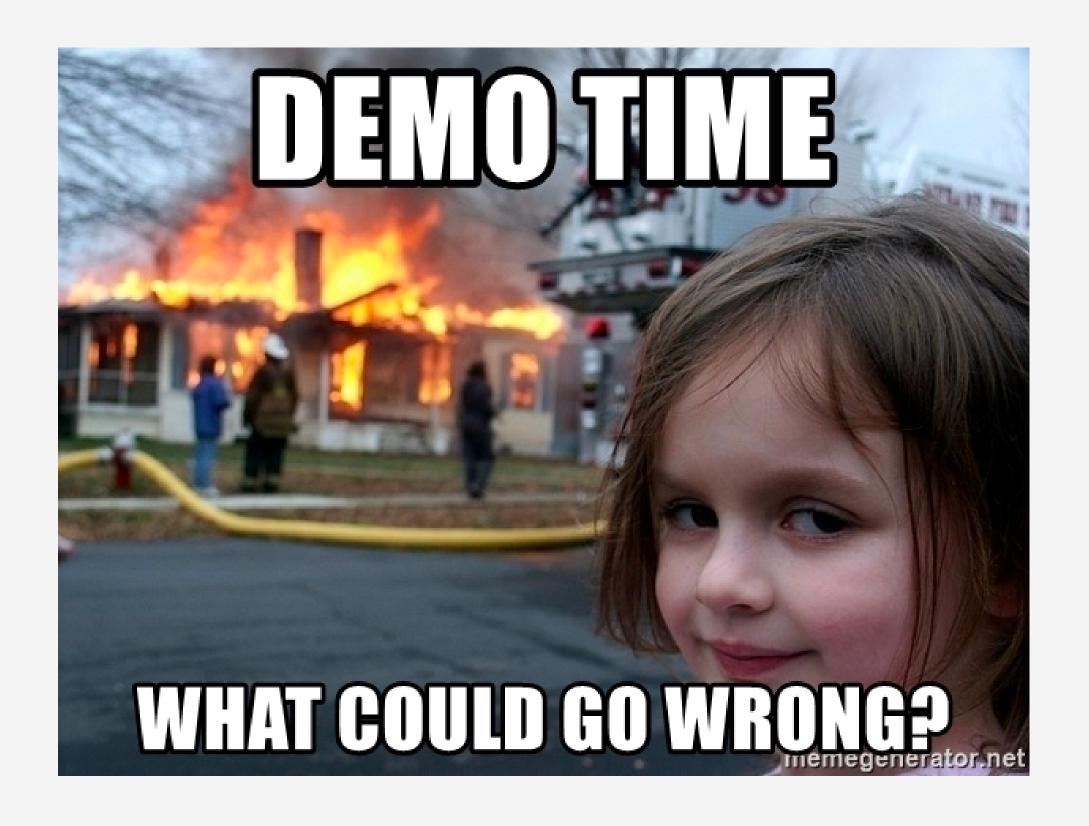
React router has 4 different main components: BrowserRouter, Link, Route, and Switch (Routes)

- **BrowserRouter** is a Router components that wraps the whole applications and provide routing history and other functionalities and keeps your screen in sync with the URL.
- **Link** Renders a navigation link (anchor tag) that receives a url (as a prop) to redirect to on click.
- <Route> Renders a UI component depending on the current URL
- **<Switch>** Makes sure that only one component is rendered and no more (Looks for the first match) in the routes,

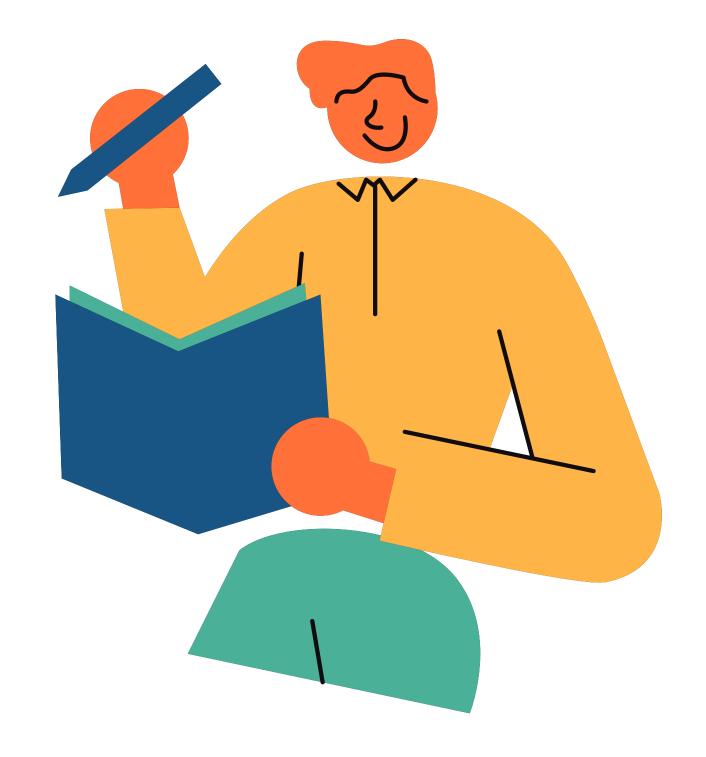
React Router in Action

Index.js App.js

Its Demo Time



Next Session: React Hooks





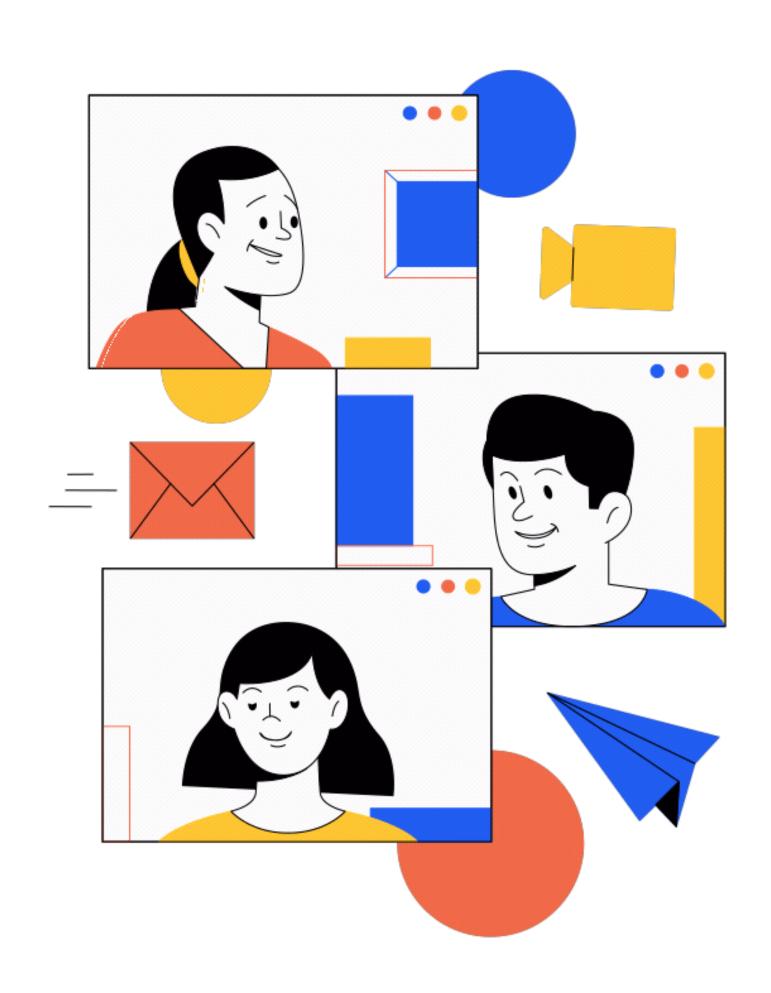


Any Questions?









Thank you for attending!

Feel free to email at aghonem2011@gmail.com or reach me at slack anytime for any questions or clarifications!

