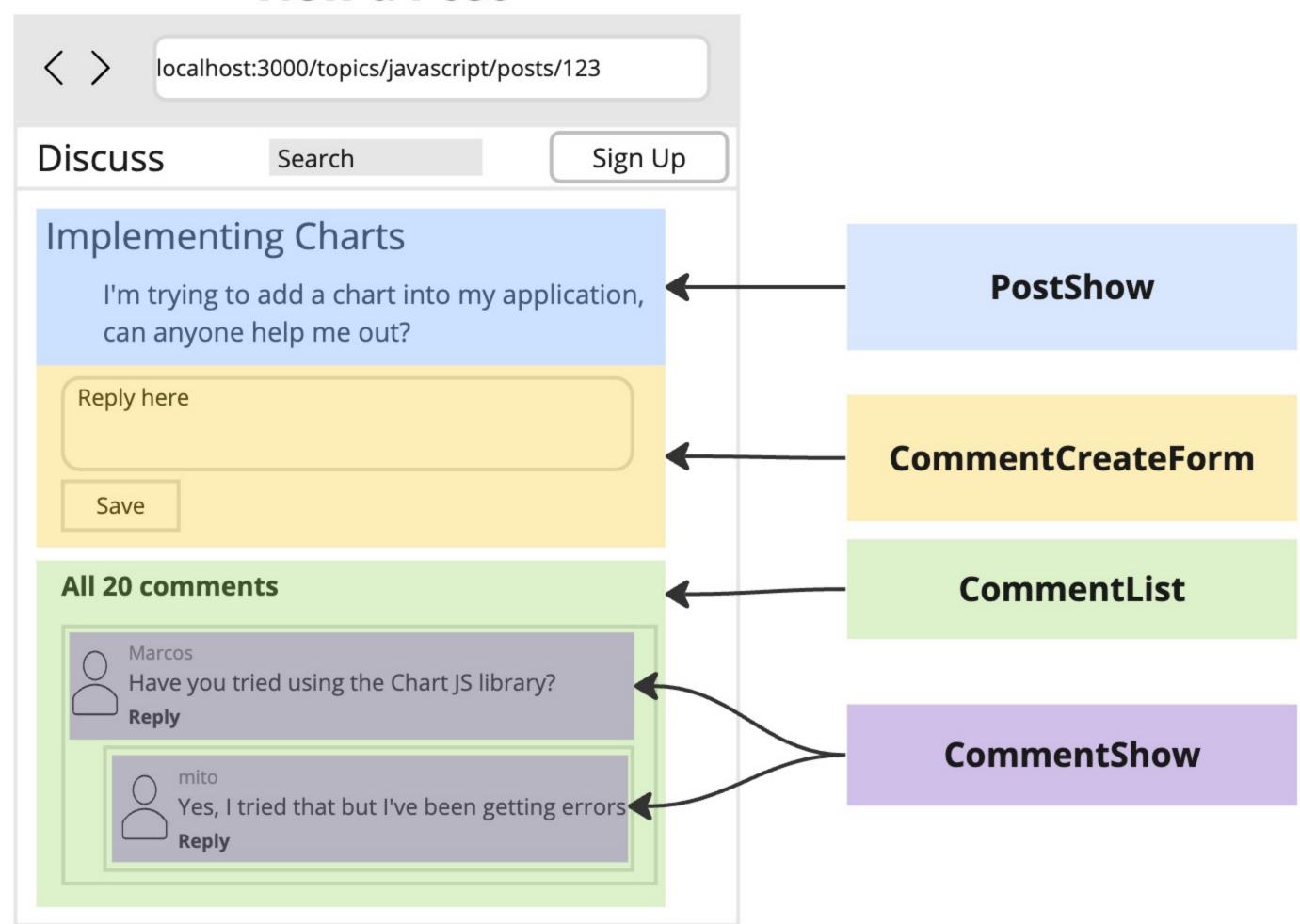
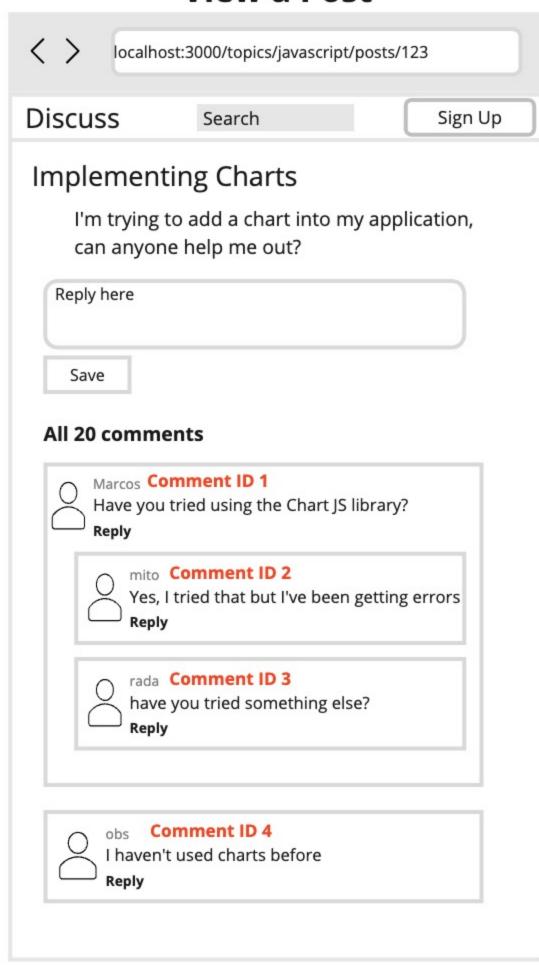
View a Post

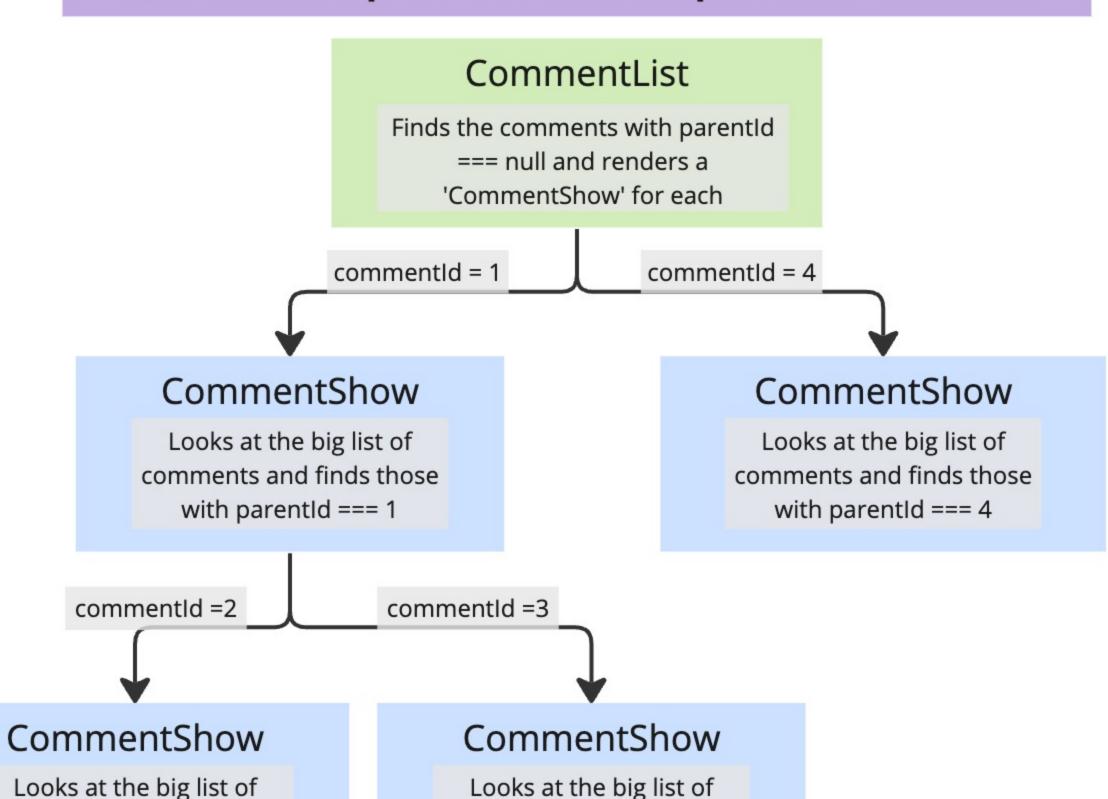


View a Post



Big list of comments

[{id: 1}, {id: 2, parentld: 1}, {id:3, parentld: 1}, {id:4}]

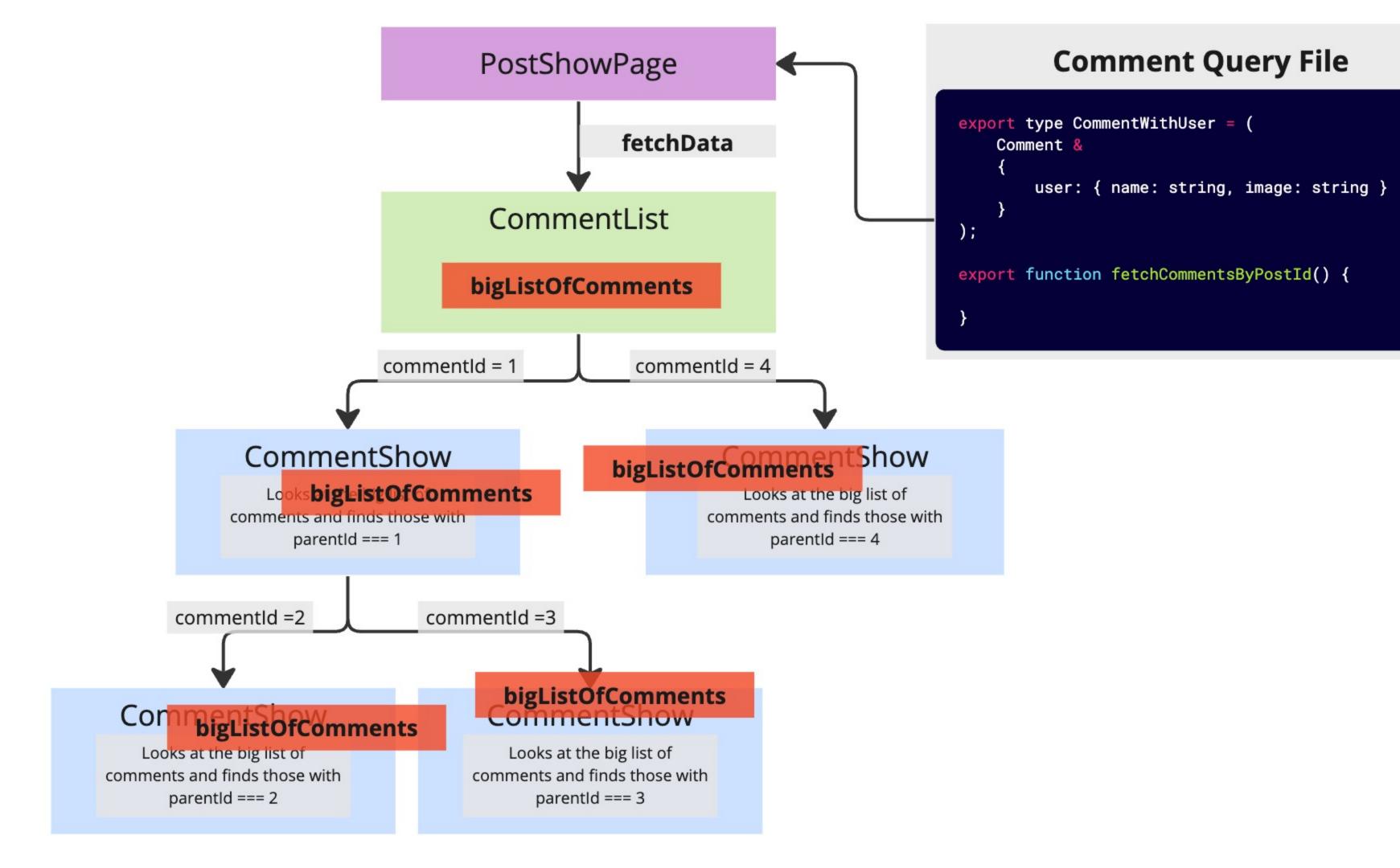


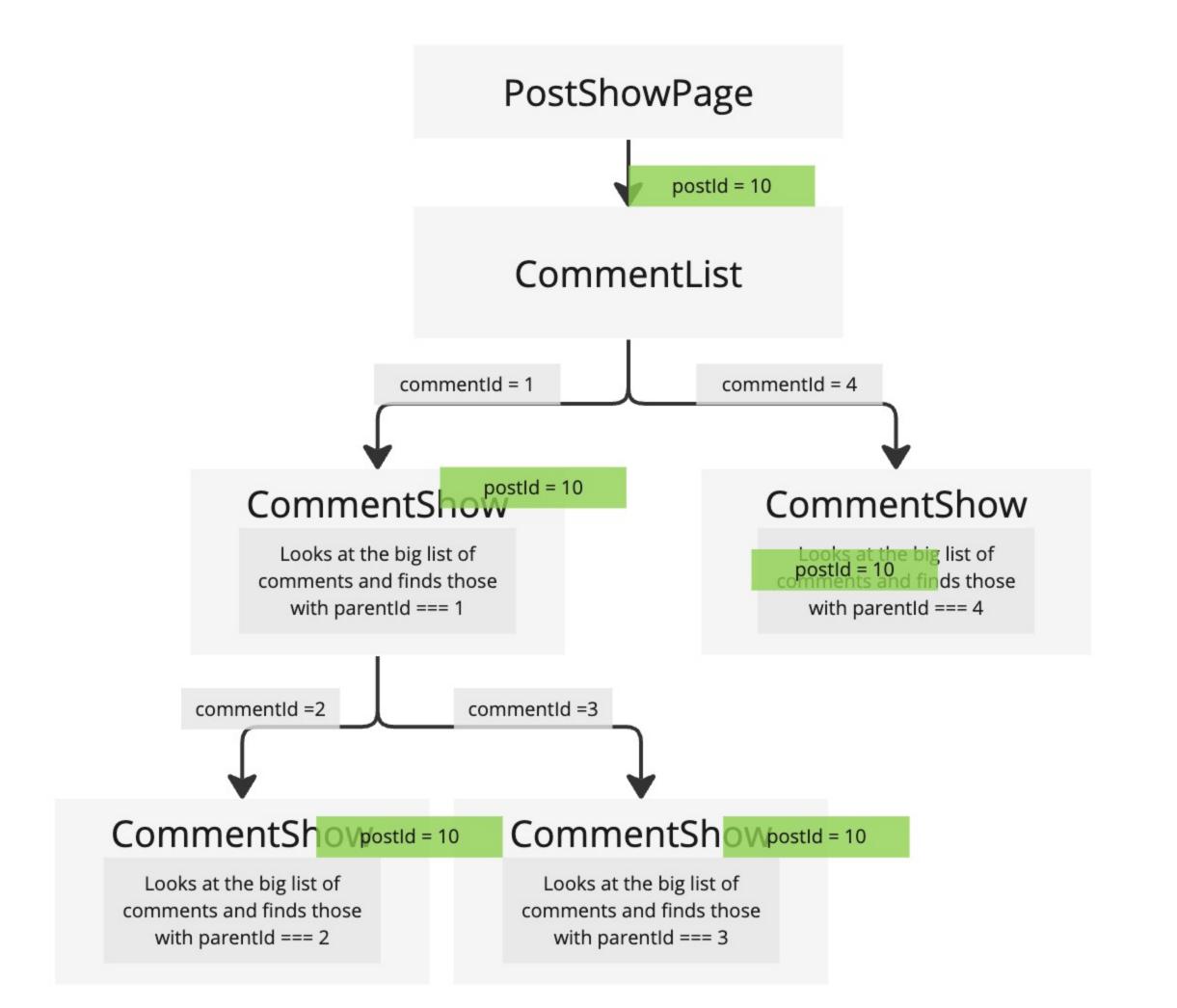
comments and finds those

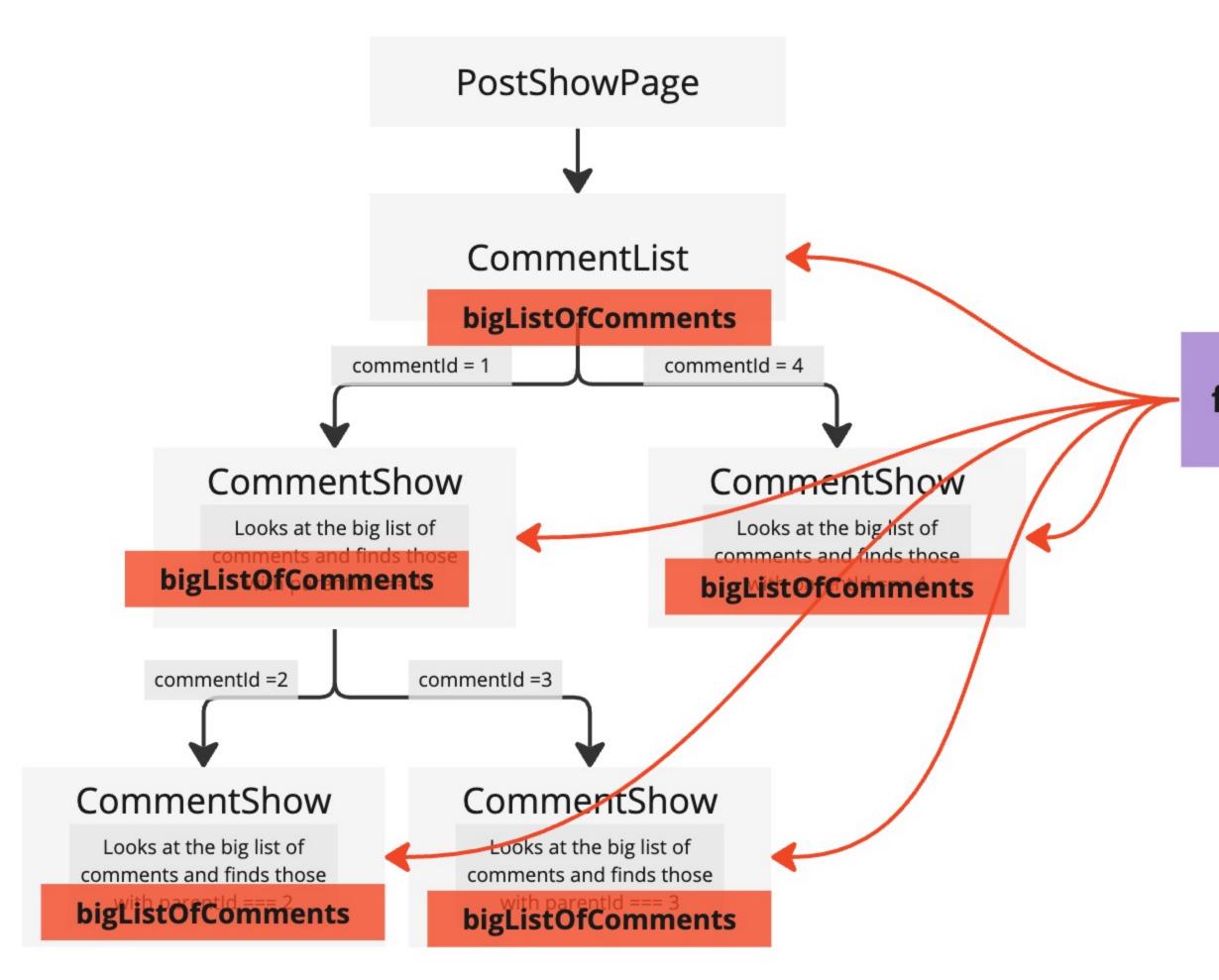
with parentId === 3

comments and finds those

with parentId === 2







fetchCommentsByPostId(postId)

bigListOfComments

Normally having components individually fetch their data is bad!

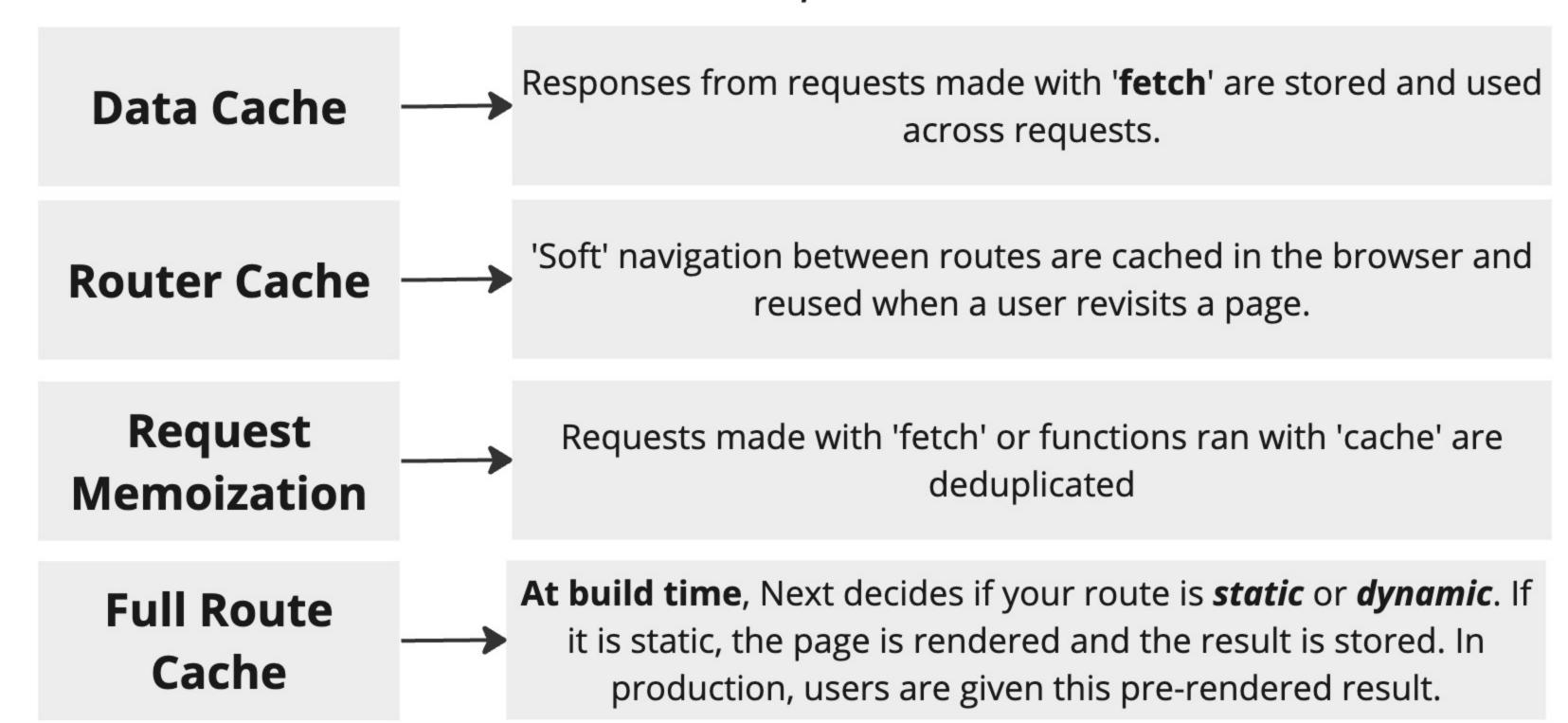
Leads to duplicate queries to the database

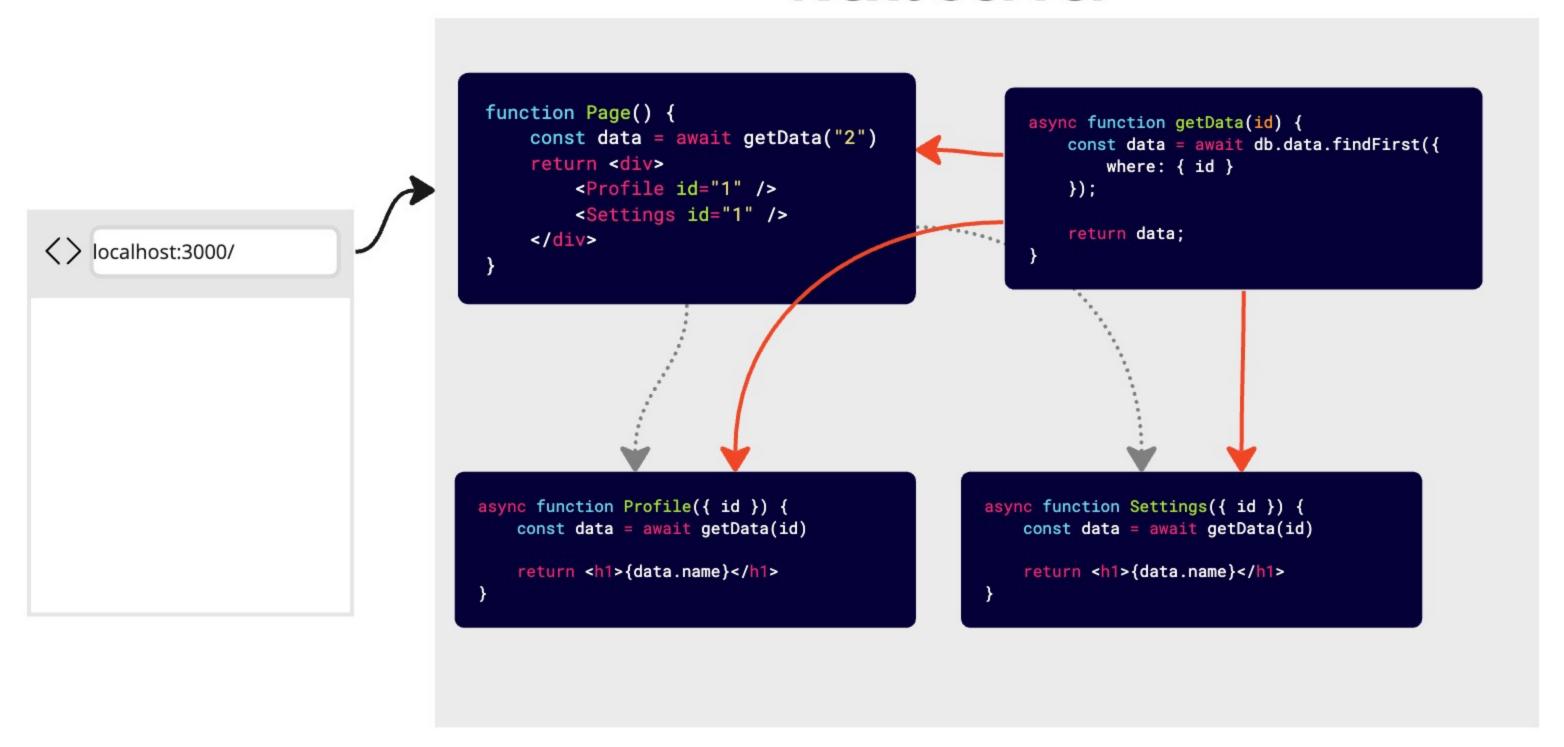
We can use another cache system to **deduplicate** these queries

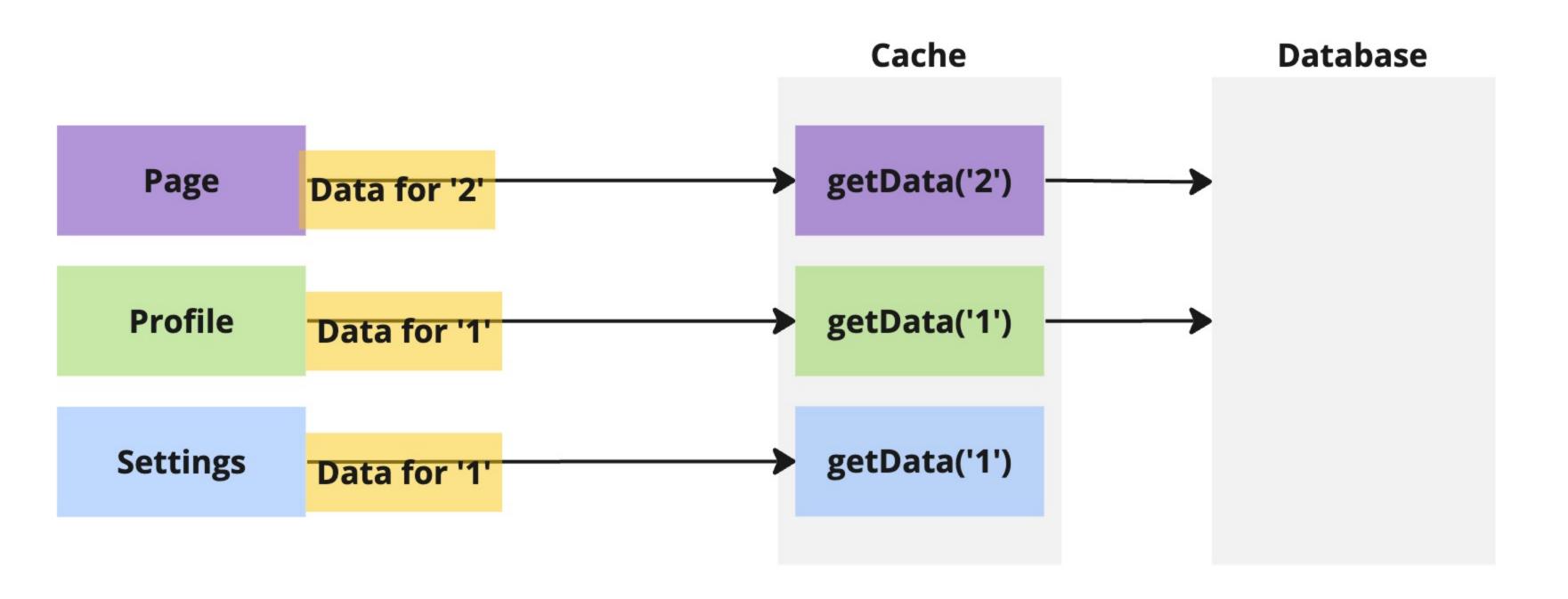
Caching

Next implements caching in several locations.

Can lead to unexpected behavior



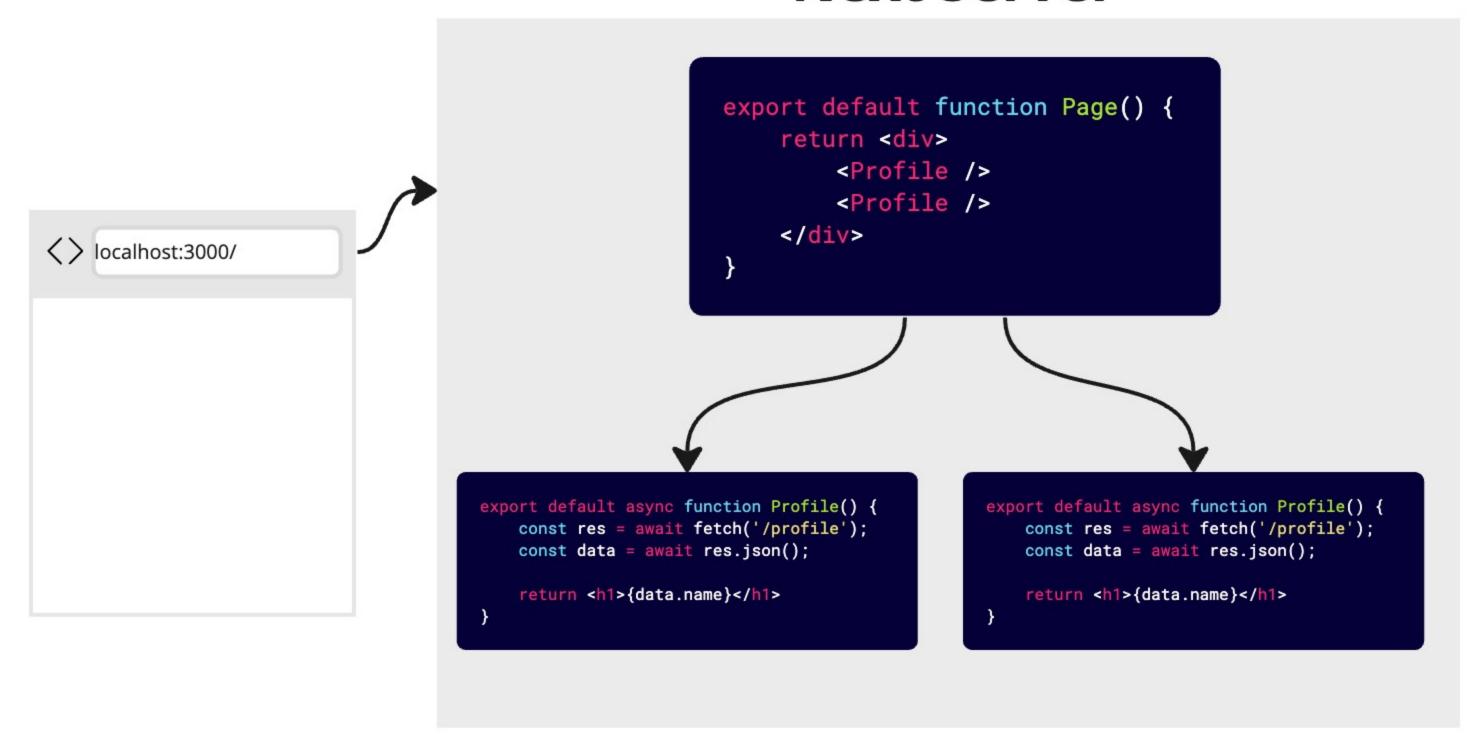




The cache memoization system is cleared out between incoming requests

Automatically used with the built-in 'fetch' function

Can be used with other functions (like db queries) by using the 'cache' function

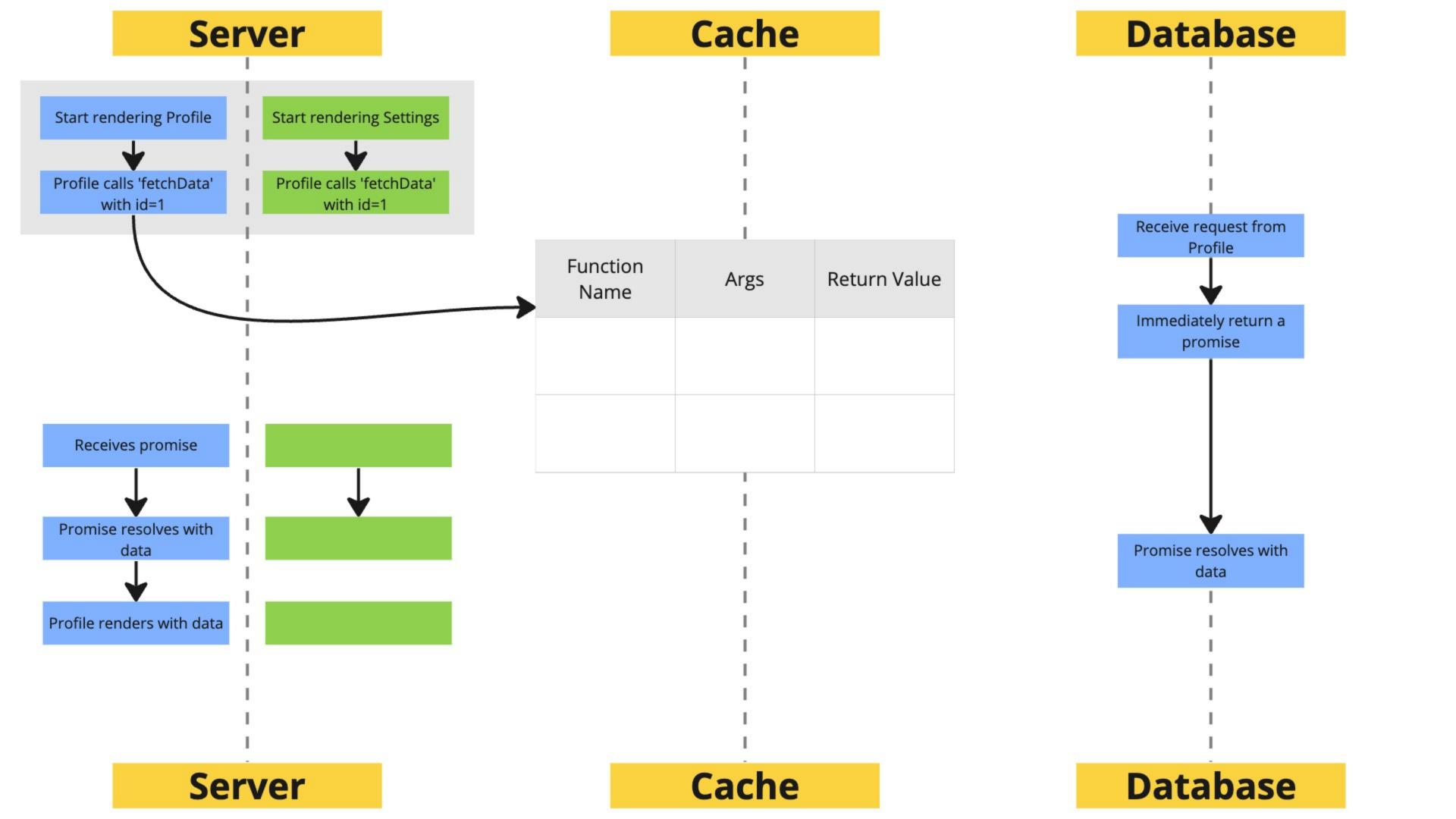


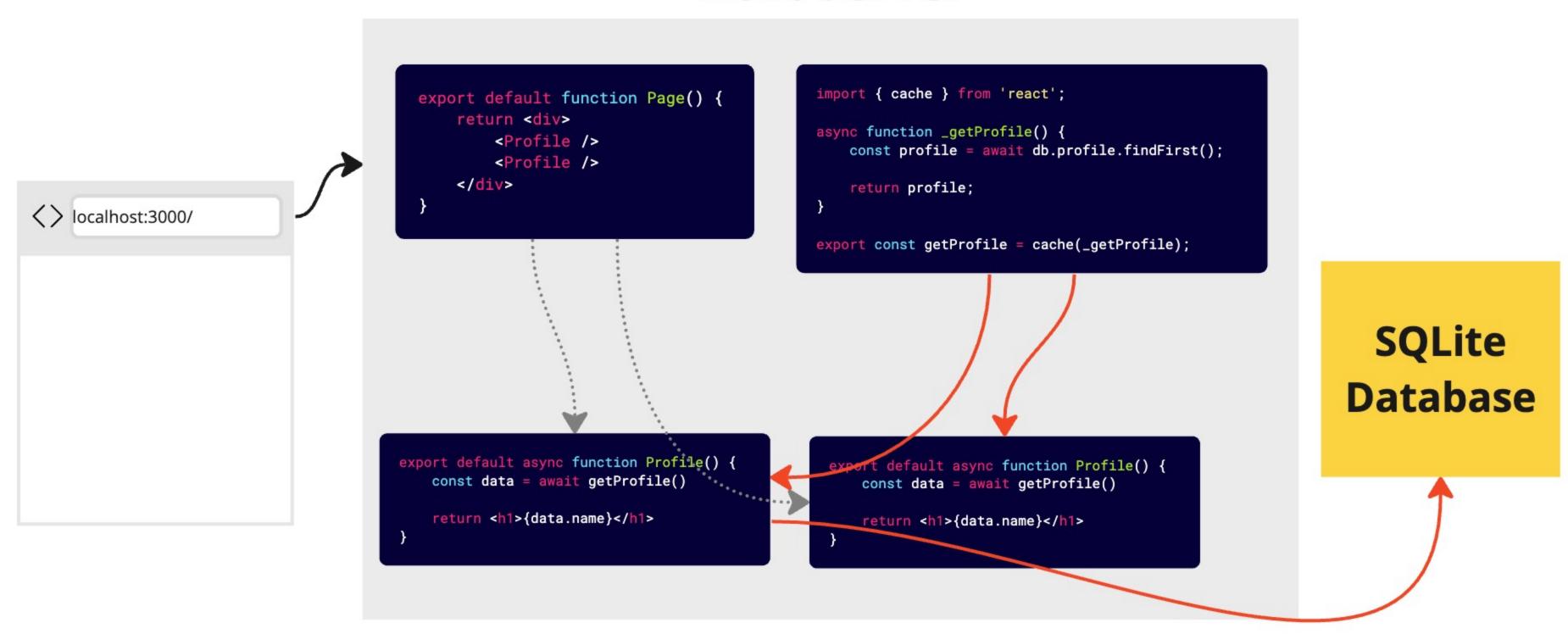
Outside API

Page getData('2') Profile getData('1') Settings getData('1')

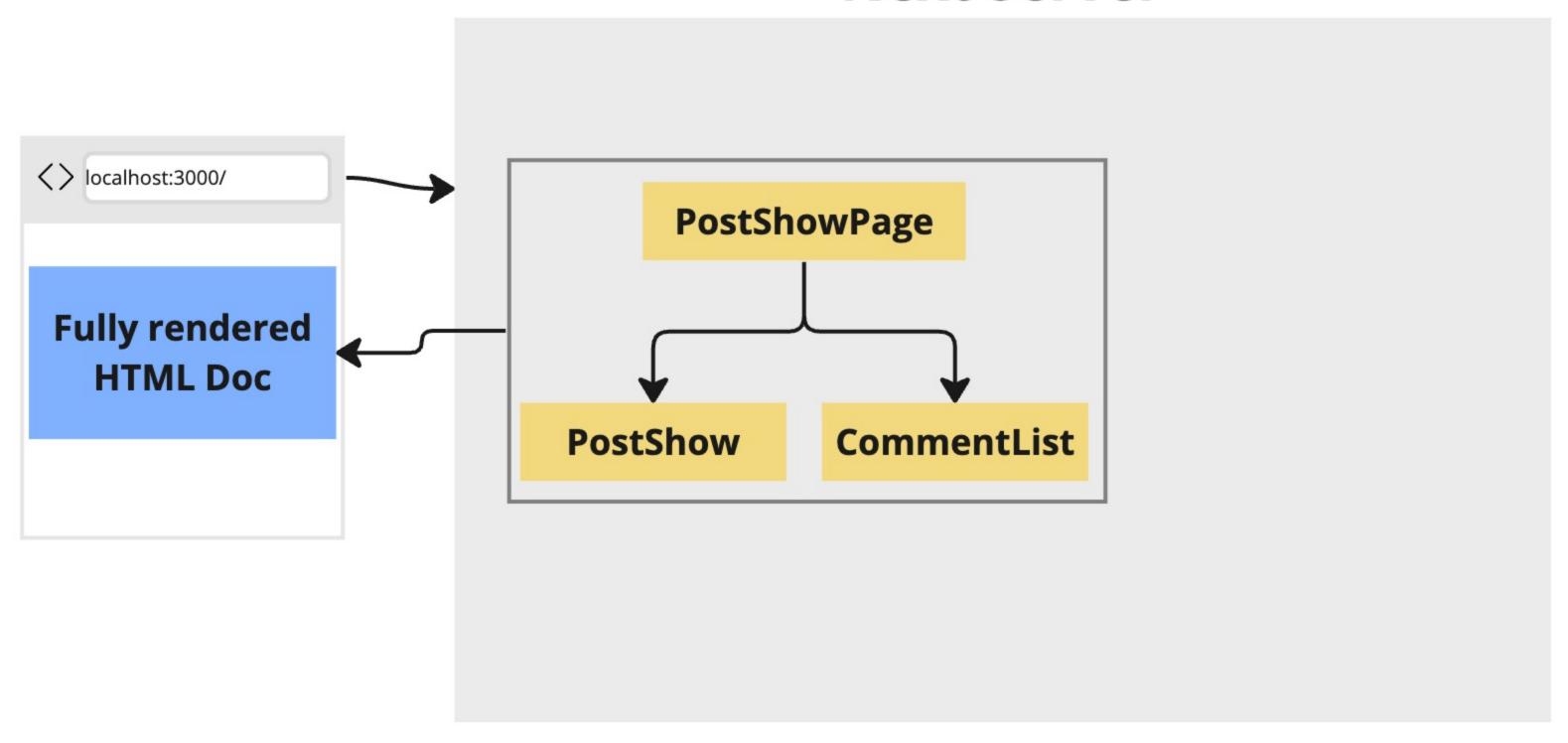
Cache

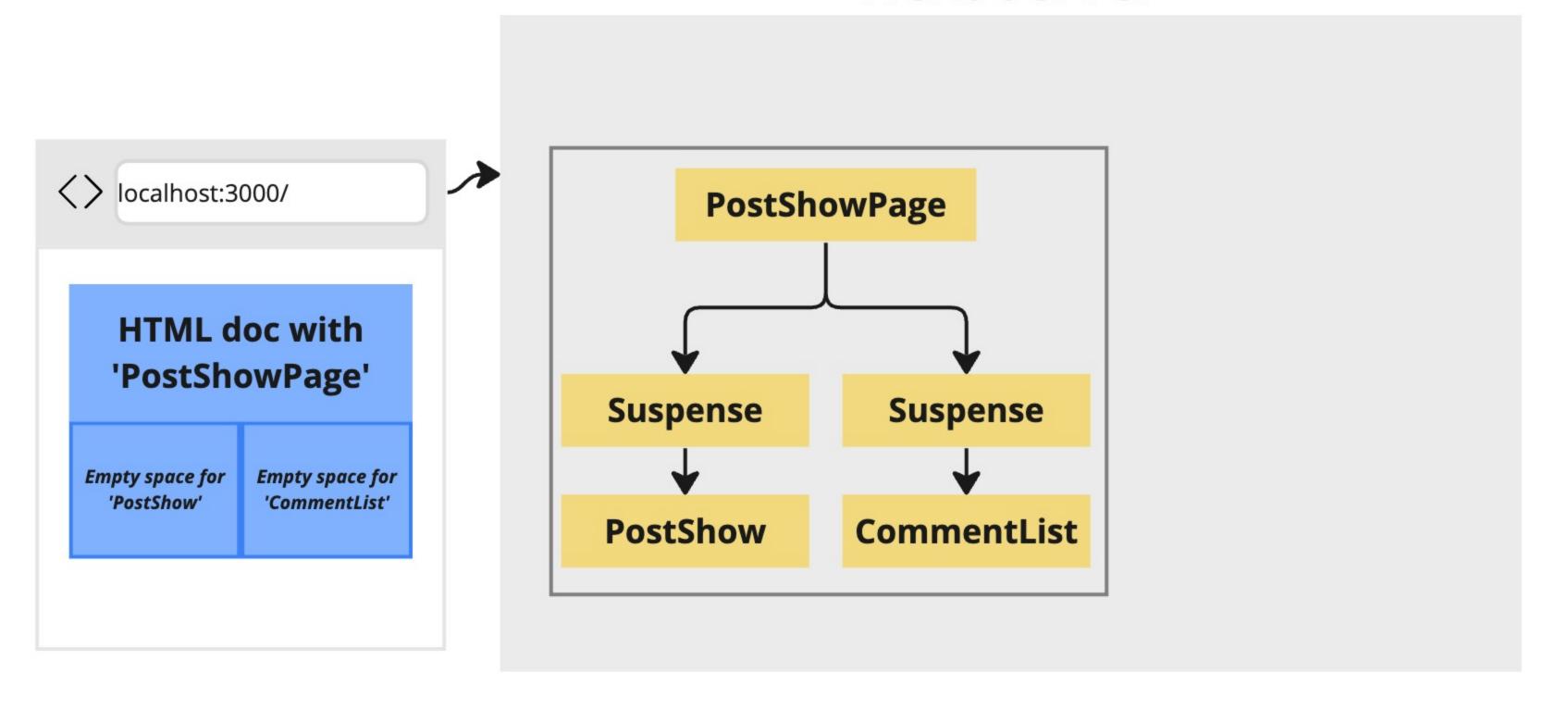
Database



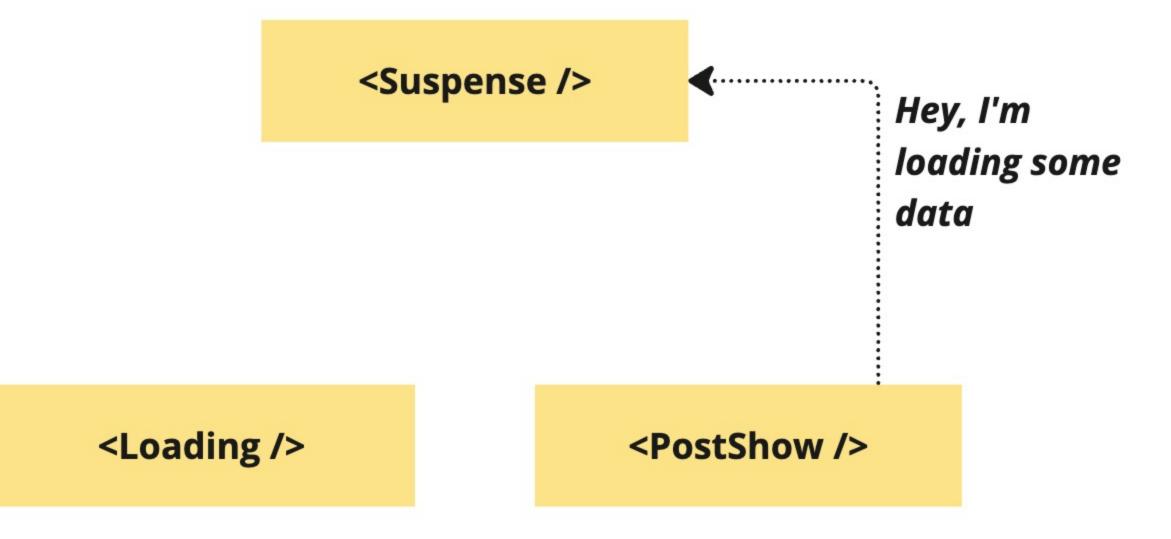


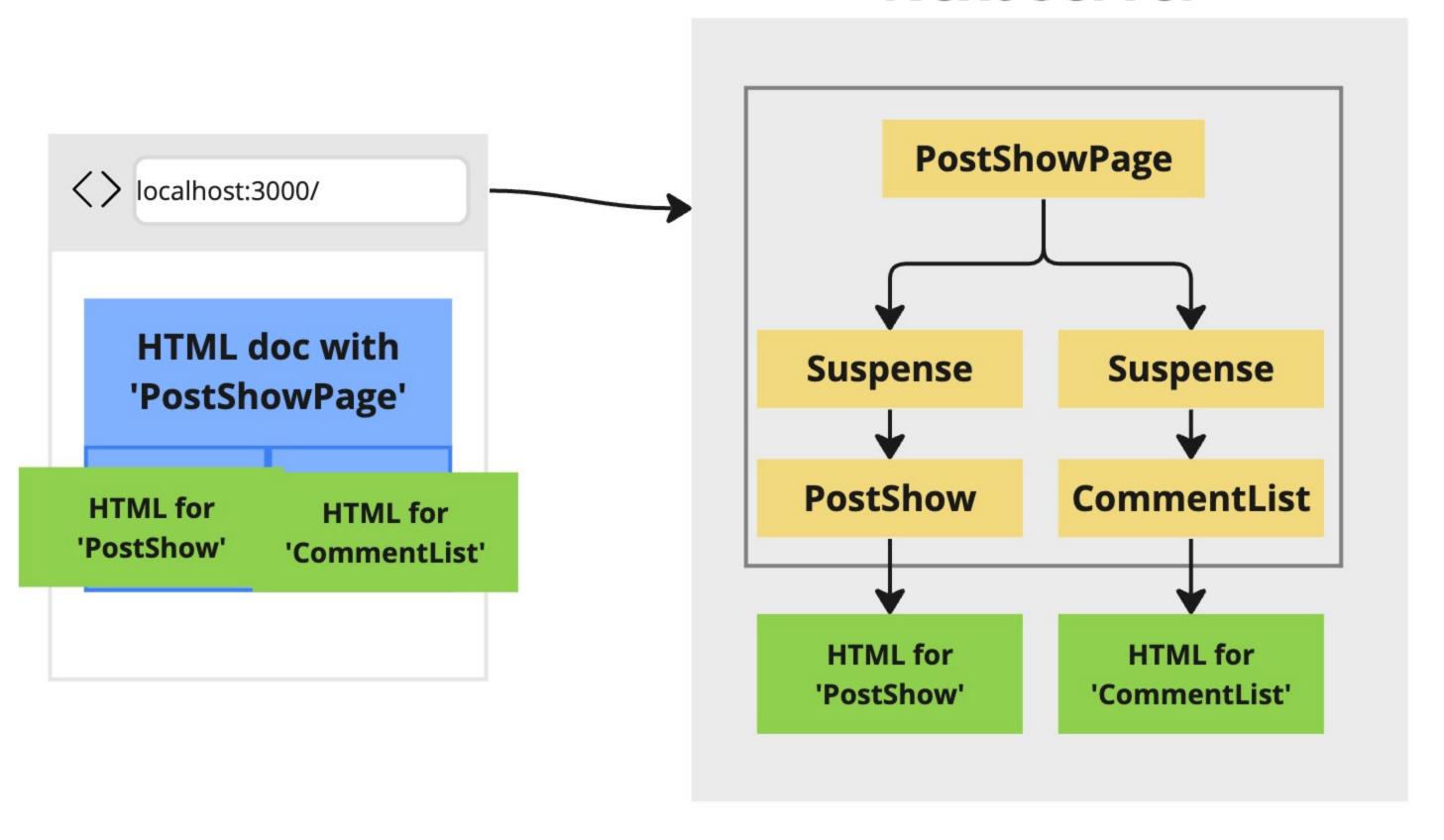
View a Topic Home Page localhost:3000/ localhost:3000/topics/javascript Discuss **Discuss** Search Search Sign Up Sign Up **Top Posts** javascript **New Topic** Create Post Implementing Charts **Implementing Charts** Topics Javascript Here you can javascript By wpa 20 comments By wpa 20 comments discuss all things golang javascript. Share servers **PostList** Making an app Making an app your projects, webdev ask questions, By Ramaz 35 comments By Ramaz 35 comments and help others. My project is done! My project is done! By mito 3 comments By mito 3 comments



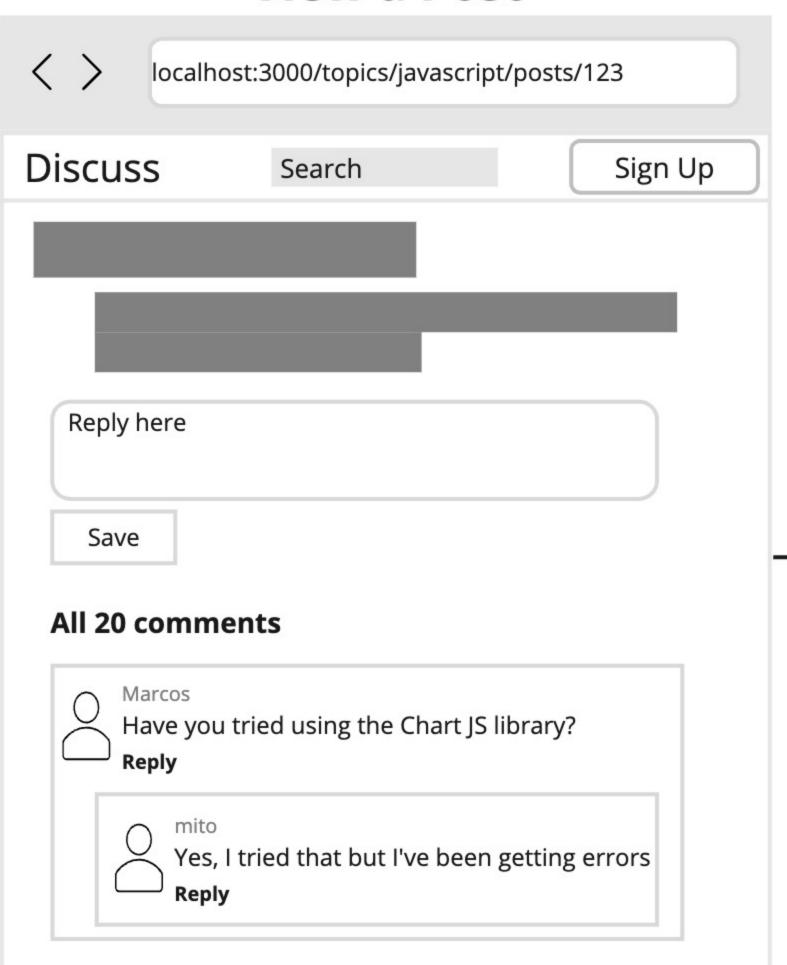


```
<Suspense fallback={<Loading />}>
  <PostShow />
</Suspense>
```

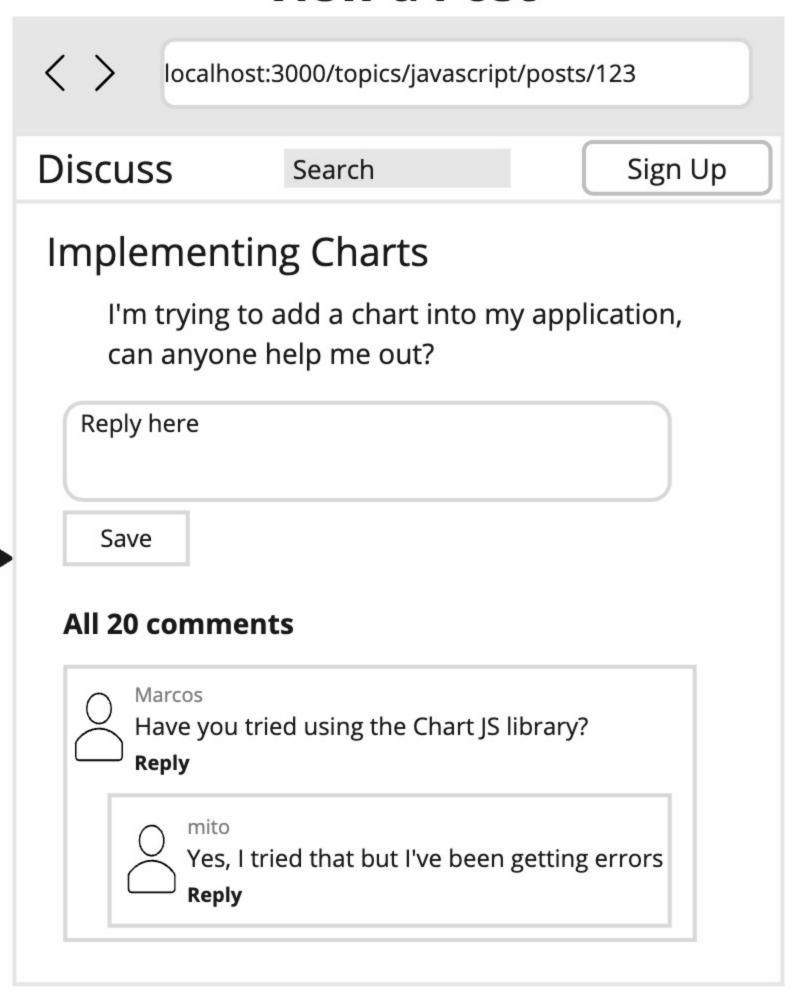




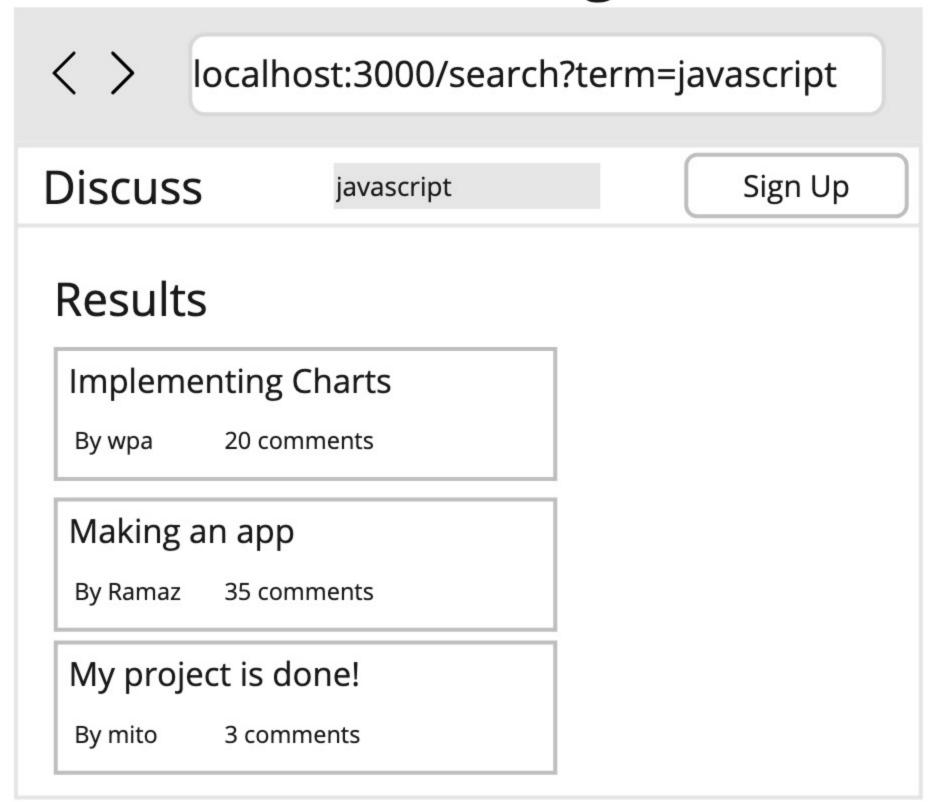
View a Post



View a Post



Search Page



Users should be able to bookmark or share the URL of the search results page

The search input's default value should come from the query string

Page components receive the query string data through the 'searchParams' prop

```
interface SearchPageProps {
    searchParams: {
        term: string;
    }
}

function SearchPage({ searchParams}: SearchPageProps) {
    return <div>
        {searchParams.term}
        </div>
}
```

Client components can get query string data with 'useSearchParams'

Client components with 'useSearchParams' need to be wrapped with 'Suspense' or you'll get a strange warning at build time

```
'use client';
import { useSearchParams } from 'next/navigation'

function SearchInput() {
    const searchParams = useSearchParams();

    return <div>
        {searchParams.term}
        </div>
}

function Page() {
    return <div>
        <Suspense>
        </div>
}

//div>
}
```

Pages that reference 'searchParams' will be marked as 'dynamic' for purposes of build time caching

```
interface SearchPageProps {
    searchParams: {
        term: string;
    }
}

function SearchPage({ searchParams}: SearchPageProps) {
    return <div>
        {searchParams.term}
        </div>
}
```

This route is dynamic!

When initially displayed, search input should take its default value from the 'term' query string param
 When the user enters a term and presses 'enter', run a server action to redirect a user to '/search?term=<term>'
 When the user enters a term and presses 'enter', run a server action to redirect a user to '/search?term=<term>'

Design your Server Actions ahead of time!

Build your app every now and then to check your caching status

Wrap slow-loading components with Suspense to enable streaming

Consider using that query function data fetching pattern