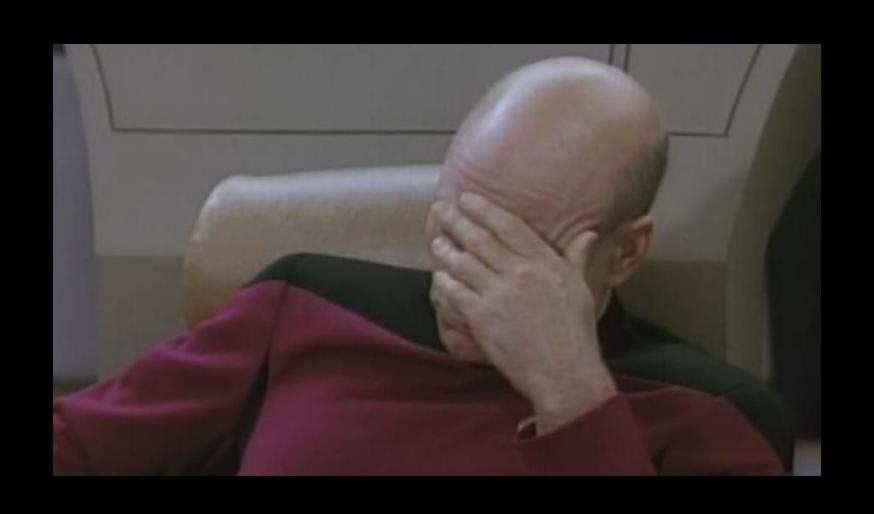
We read code more than we write.

Creating a framework-less server-less node-modules-less web page

Did I start with a solution again?

Did I start with a solution again?



Performant / Reliable
Templating

The Problem

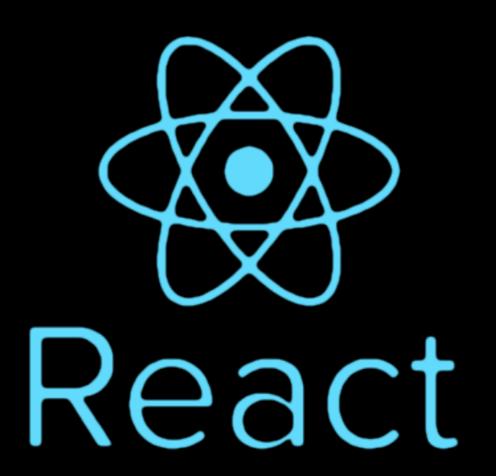
Performant / Reliable
Templating

The Problem

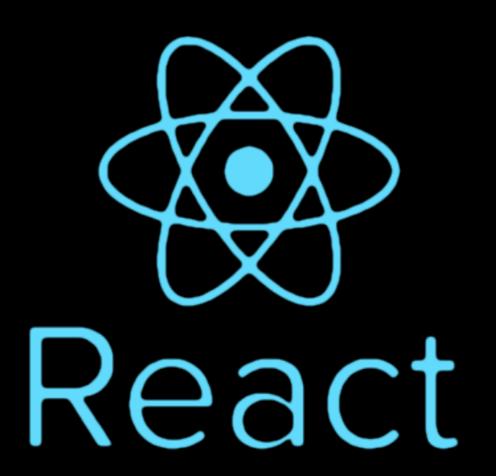
The Problem

Performant / Reliable Templating JWT decoder / deserialiser

The Solution



The Solution



The Problem

Create a landing page that shows dynamic content based on the roles in a JWT token.

Dynamic content is sensitive and should not be loaded on client side if user does not have relevant roles.

Performant / Reliable

Templating

JWT decoder / deserialiser

Server Side Rendering

The Problem

Create a landing page that shows dynamic content based on the roles in a JWT token.

Dynamic content is sensitive and should not be loaded on client side if user does not have relevant roles.

React

with SSR

Performant / Reliable Templating JWT decoder / deserialiser Server Side Rendering

Performant / Reliable

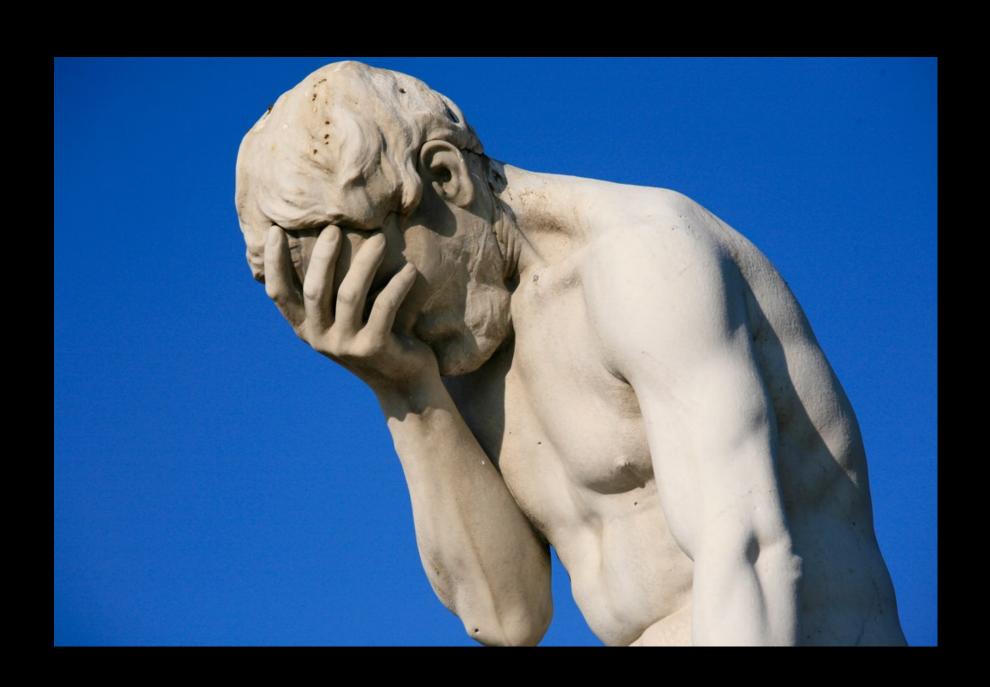
Templating

JWT decoder / deserialiser

Server Side Rendering

The Solution

Page does not have with SSR



Spring boot

Performant / Reliable Templating JWT decoder / deserialiser Server Side Rendering

Spring boot

Performant / Reliable

Templating

JWT decoder / deserialiser

Server Side Rendering

Model

View

Controller

Spring boot

Performant / Reliable
Templating

JWT decoder / deserialiser

Server Side Rendering

× Model

View

Controller

Spring boot

Performant / Reliable Templating

JWT decoder / deserialiser

Server Side Rendering

- × Model
- View

Controller

Spring boot

Performant / Reliable Templating

JWT decoder / deserialiser

- × Model
- View
- Controller

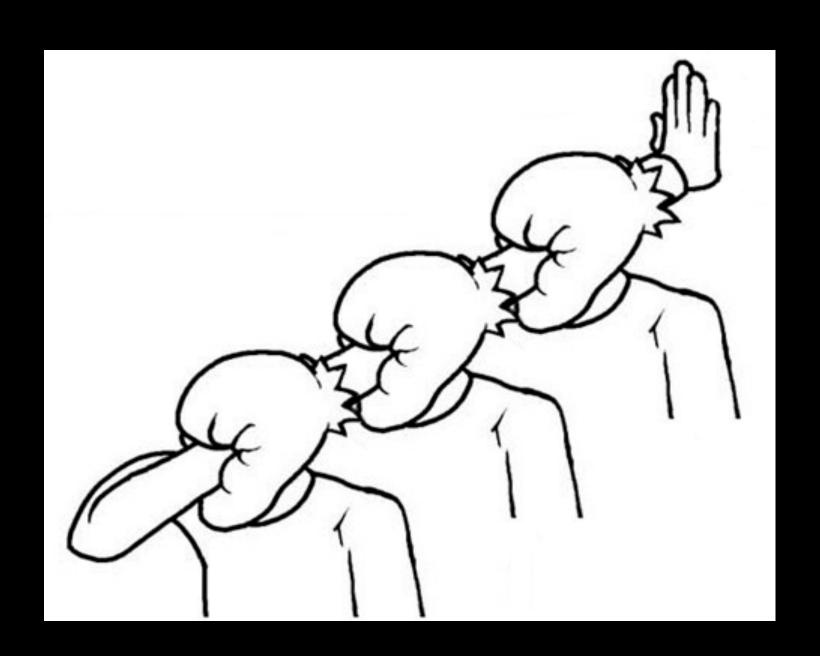
Performant / Reliable Templating

JWT decoder / deserialiser

- × Model
- View
- Controller



Performant / Reliable Templating JWT decoder / deserialiser



Performant / Reliable

Templating

JWT decoder / deserialiser

Server Side Rendering



Performant / Reliable Templating

JWT decoder / deserialiser



JWT Decoder

1 line of code

Performant / Reliable Templating

JWT decoder / deserialiser

Performant / Reliable

Templating

JWT decoder / deserialiser

Server Side Rendering





JWT Decoder

1 line of code

```
exports.jwtDecode = jwtToken =>
    JSON.parse(Buffer.from(jwtToken.split(".")[1], "base64").toString("ascii"));

/* Usage:

*
jwtDecode('eyJhbGci0iJIUzIINiIsInR5cCI6IkpXVCJ9.eyJzdWIi0iIxMjM0NTY30DkwIiwibmFtZSI6IkpvaG4gRG9lIiwiaWF
0IjoxNTE2MjM5MDIyfQ.SflKxwRJSMeKKF2QT4fwpMeJf36P0K6yJV_adQssw5c');

* => {
    "sub": "1234567890",
    "name": "John Doe",
    "iat": 1516239022
    * }
    */
```



JWT Decoder

1 line of code

Role-Component Map

Number of roles

Performant / Reliable Templating

JWT decoder / deserialiser



JWT Decoder

1 line of code

Role-Component Map

Number of roles

HTML Partials

Static HTML

Performant / Reliable Templating

JWT decoder / deserialiser



JWT Decoder

1 line of code

Role-Component Map

Number of roles

HTML Partials

Static HTML

Templating

6 lines of code

Performant / Reliable Templating

JWT decoder / deserialiser

JWT Decoder

1 line of code

Role-Component Map

Number of roles

HTML Partials

Static HTML

Templating

6 lines of code

Performant / Reliable
Templating

JWT decoder / deserialiser

```
export const render = (templateData, template) =>
  Object.entries(templateData).reduce(
    (renderedContent, dataVar) =>
    renderedContent.replace(`{{${dataVar[0]}}}`, dataVar[1]),
    template
);
```

A

JWT Decoder

1 line of code

Role-Component Map

Number of roles

HTML Partials

Static HTML

Templating

6 lines of code

Page

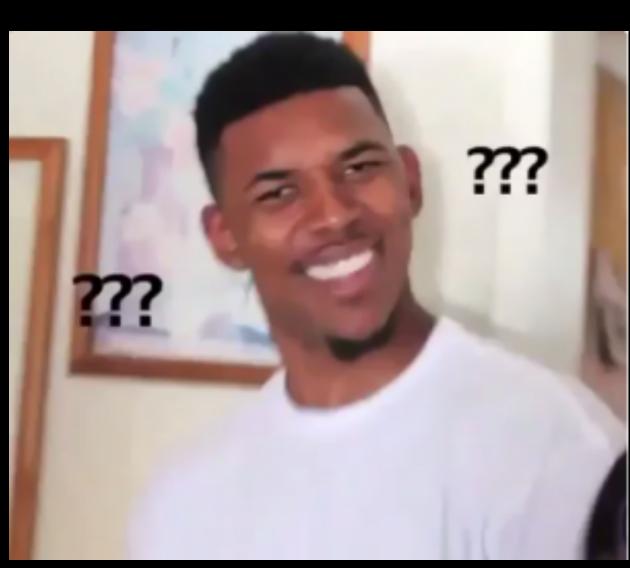
Static HTML

Performant / Reliable Templating

JWT decoder / deserialiser

But is this simple?

Mental Model Problem





Simplicity is prerequisite for reliability

Edsger W. Dijkstra



Word Origins

Simple

sim- plex

one fold/braid

vs comple)

Easy

ease < aise < adjacens

lie near

vs hard



Easy

- Near, at hand
 - on our hard drive, in our tool set, IDE, apt get, gem install...
- Near to our understanding/skill set
 - familiar

- Near our capabilities
- Easy is relative



Simple!= Easy



Why need simplicity when ease makes life "easy"?



Simplicity leads to ease.



Ease of Understanding



Ease of Change



Ease of Debugging



Simple things are focussed.



Don't add complexity because you might need it.



There is a need to things "quickly" in software, resist it.



We need to start asking the right questions



You might know Spring Boot but



We read code more than we write.

The Zen of Python

We re

Beautiful is better than ugly. Explicit is better than implicit. Simple is better than complex. Complex is better than complicated. Flat is better than nested. Sparse is better than dense. Readability counts. Special cases aren't special enough to break the rules. Although practicality beats purity. Errors should never pass silently. Unless explicitly silenced. In the face of ambiguity, refuse the temptation to guess. There should be one -- and preferably only one -- obvious way to do it. Although that way may not be obvious at first unless you're Dutch. Now is better than never.

Although never is often better than *right* now.

If the implementation is hard to explain, it's a bad idea.

If the implementation is easy to explain, it may be a good idea.

Namespaces are one honking great idea -- let's do more of those!