Intro to ReactJS

BHS Hackathon 2024

https://github.com/wg4568/bhs-hackathon-2024

ReactJS is a **component based** framework for creating web applications.

Traditional HTML Code

```html
<div>
    <img src="/jimmy.jpg" />
    <h1>Jimmy John</h1>
</div>

<div>
    <img src="/sarah.jpg" />
    <h1>Sarah Smith</h1>
</div>
```

What happens if we want to change how a profile is displayed?

Imagine if we had 150 employees! Is this DRY code?

ReactJS To The Rescue

```
function Profile(props) {
    return <div>
        <img src={props.photo} />
        <h1>{props.name}</h1>
    </div>
}


function MyApp() {
    return <div>
        <Profile name="Jimmy John" profile="/jimmy.jpg" />
        <Profile name="Sarah Smith" profile="/sarah.jpg" />
    </div>
}
```

Now we can reuse our `Profile` component across our project.

ReactJS Weather App

Weather Checker

Latitude   50

Longitude   40

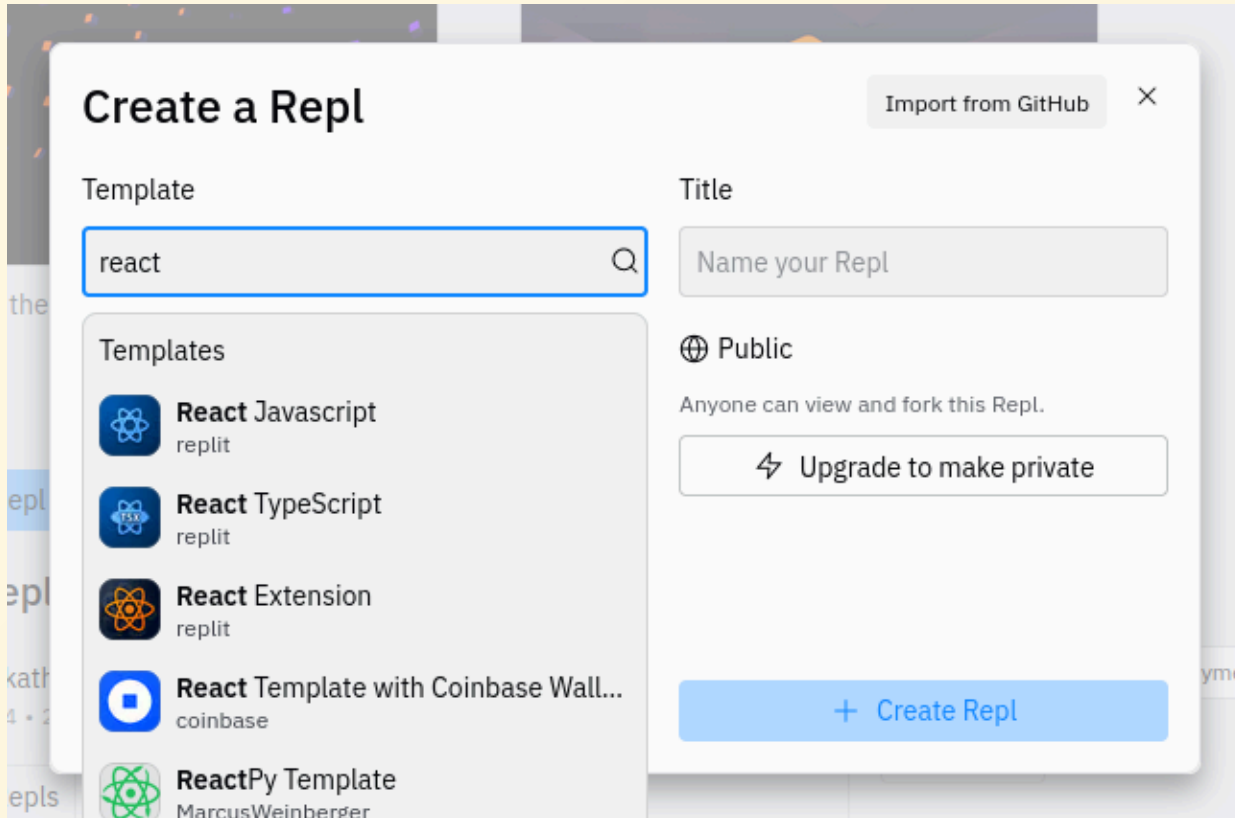| 2024-03-20	2024-03-21	2024-03-22	2024-03-23	2024-03-24	2024-03-25	2024-03-26
8.2°	5.6°	7.7°	9.1°	11.7°	12.9°	13°

How might you break down this "design" into components?

Getting Started

Navigate to https://replit.com/ and create an account. Then start a new project using the **React Javascript** template.