COMP6080

💥 ReactJS - CSS Frameworks

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🔱 CSS In ReactJS

1. Global CSS `import 'file.css'`
2. CSS Modules `import 'file.module.css'`
3. Styled Components Library
4. UI Frameworks

🥳 Global CSS

We know this from earlier. We can simply import CSS

```
import 'file.css'
```

This is considered **bad** as it applies CSS globally

🔰 CSS Modules

This is similar:

```
import styles from 'file.module.css'
```

Now `styles` is a ReactJS variable with all styles able to be referenced.

🔰 CSS Modules

```css
.error {
  color: red;
}
```

modules1.css

```jsx
function Button() {
  return <button className={styles.error}>Error Button</button>;
}
```

modules2.jsx

🎨 Styled Components

Styled components are similar to CSS modules except it brings things into Javascript land and uses an NPM library to make it happen.

```jsx
import { Button } from './styles';

export default App() {
  return (
    <Button>Styled Components Button</Button>
  );
}
```

styles1.jsx

```js
import styled from 'styled-components';

// Create a styled button component using object styles
export const Button = styled.button(() => ({
  backgroundColor: '#000',
  color: '#fff'
}));
```

styles.js

🏛️ UI Frameworks

- More than a blank canvas - a built out system
- Quicker way of building UIs than from scratch
- Accessability built in and thought about

🏛️ UI Frameworks

Two main types:

- Opinionated, comes with an inbuilt visual style (Material UI, Chakra)
- Un opinionated, is usally a different way of styling than CSS and includes base components but unstyled (HeadlessUI, Emotion)

🏛️ UI Frameworks

Opinionated

- Includes non HTML5 components like dropdown menus, tooltips, popovers
- With all non HTML5 components, accessability is thought about and built in
- Dont have to think about styling, comes with its own styling built in

🏛️ UI Frameworks

Unopinionated

- No prebuilt styles you have to work around
- Allows you to quickily build UIs but with your own distictive look

🏛️ UI Frameworks

Which one do I choose?

- There is no right answer, its all about the aim of the project.
- If its a quick side project there is no reason not to just go opinionated, so as a developer you dont have to think about visual look
- If its for a company, it would be probably best to use unopinionated since you would want to make it look as close to the companies brand image.

🪡 Tailwind

- Tailwind CSS is a utility first css framework and is now the most popular, due to it being unopinionated in design, but allows rapid styling development due to never having to touch a css file.
- Tailwind will never duplicate the same css properties and you dont have to think about class names
- Tailwind is used by mutliple popular websites, such as OpenAI, Shopify and the Verge (https://tailwindcss.com/showcase)

🪡 Tailwind

```
html
import 'tailwind.generated.css';

<button
  type="button"
  class="rounded-md bg-white text-sm font-semibold text-white shadow-sm hover:bg-grey"
>
  Button text
</button>
```

The above code will output a button with medium rounded corners, white background, small text (0.875rem), semibold, white text colour, with a small shadow and a hover background of grey.You might think this is alot of html classes why not just do this all in css?When you're in big teams with lots of css code, different style class names, it can become hard to manage and make sure people are using the same class names everywhere. Tailwind will allow developers to style within html code, and tailwind will then parse all your html files for the tailwind class names and only generate a css file with the styles you use. Tailwind has a single class name for every single css property which means the generated css file will only ever have 1 class for 1 css style property, potentially reducing your css file size. Also the class names might get very long sometimes but this isnt a issue as if your using something like react, most of your base items should be react components.

👂 Feedback

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