Report Day: 6.2

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1. JSX (JavaScript XML)

JSX is a syntax used in React that lets you write **HTML-like code inside JavaScript**.

Why use JSX?

- Makes code easier to read.

- Looks similar to HTML, so it's easy to understand.

- React uses JSX to describe how the UI should look.

const element = <h1>Hello, World!</h1>;

Even though it looks like HTML, it's actually JavaScript behind the scenes.

2. Functional Components

A **component** is like a building block in React. It represents a part of the webpage (e.g., a button, header, card).

There are two types of components:

- **Functional Components** (simple and preferred)

- Class Components (older method, less used now)

```
function Welcome() {
  return <h2>Welcome to my website</h2>;
}
```

Props (Properties)

Props are used to **send data from one component to another**.

- Props are like **function arguments**.

- They make components **reusable** with different data.

Example:

function App() {

  return <Greeting name="Ayesha" />;

}

function Greeting(props) {

  return <h2>Hello, {props.name}!</h2>;

}

```
function App() {
  return (
    <div>
      <Greeting name="Ayesha" />
      <Greeting name="Ali" />
    </div>
  );
}
```

```
function Greeting(props) {
  return <h2>Hello, {props.name}!</h2>;
}
```

Conclusion:

In React, the most basic building blocks are **functional components**. These are simple JavaScript functions that return JSX, which is a special syntax used to describe what the UI should look like. Functional components help us divide our interface into reusable, manageable parts. For example, we can create a Header, Footer, or Button as separate components. Functional components are easy to write, clean, and are now the recommended way to build components in modern React.