

### Welcome Back - Session 2 Overview

Quick recap of Session 1 What we'll cover today:

- What is JSX?
- Functional vs Class Components
- Understanding Props
- Hands-on project: Reusable Button Component

### What is JSX?

JSX = JavaScript XML
Allows writing HTML in JavaScript
Makes UI more intuitive to build
Example:

```
const element = <h1>Hello JSX!</h1>;
```

- Must return a single parent element
- Use className instead of class
- Use {} to embed JS expressions

### JSX in Practice

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

- Can loop with map()
- Conditional rendering: {condition ? <A /> : <B />}
- Comment syntax: {/\* comment \*/}

# Components - The Building Blocks

#### 2 Types:

- Functional (preferred, with Hooks)
- Class (older, less common)

#### **Examples:**

```
function Welcome() {
  return <h1>Welcome!</h1>;
}

class Welcome extends React.Component {
  render() {
    return <h1>Welcome!</h1>;
  }
}
```

## **Understanding Props**

Props = Data passed to components

- Like arguments to a function
- Read-only

#### Example:

```
function Welcome(props) {
  return <h1>Hello, {props.name}</h1>;
}
<Welcome name="Omar" />
```

## Props Demo in React Native

```
const Greeting = (props) => (
    <Text>Hello {props.username}!</Text>
);
<Greeting username="John" />
```

- Text needs to be inside Text component
- Props work the same as React (Web)

# Real-Life Example - Reusable Button

```
function MyButton({ label, onPress }) {
  return <button onClick={onPress}>{label}</button>;
}
<MyButton label="Click Me" onPress={() => alert('Hello!')} />
```

#### **React Native:**

```
<TouchableOpacity onPress={onPress}>
  <Text>{label}</Text>
  </TouchableOpacity>
```

### Lab Exercise

Goal: Build a reusable button component

- Use props to change button text
- Add a function to handle clicks
- Build both web & mobile versions

# Wrap-Up

- Recap: JSX syntax, Components, Props
- What we built: Reusable Button
- Next session: State & Hooks
- Homework: Create a custom card component with title, description, and image props