

## ◆ ProSensia Internship Report

**Name:** Hamza Rafique

**Week:** 6

**Day:** 2

**Date:** 29-07-2025

**Topics Covered:** JSX, Functional Components, Props

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### ✅ Topics Summary:

#### 1. JSX (JavaScript XML):

- JSX is a syntax extension for JavaScript used in React.
- It allows writing HTML-like code directly within JavaScript.
- Makes UI code more readable and expressive.
- Behind the scenes, JSX is transpiled to `React.createElement()` calls.

#### 2. Functional Components:

- These are JavaScript functions that return JSX.
- Simple and clean way to create UI elements in React.
- Example:

jsx

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

- No need for class-based syntax; easier to test and reuse.

#### 3. Props (Properties):

- Props are used to pass data from parent to child components.
- They make components dynamic and reusable.
- Example:

jsx

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```
function Greeting(props) {  
  return <h1>Hello, {props.name}!</h1>;  
}
```

<Greeting name="Hamza" />

- Props are **read-only** inside the receiving component.
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### Key Learnings:

- Learned how JSX simplifies the UI development process in React.
- Understood the difference between regular JS and JSX.
- Built small components and passed data using props.
- Observed how breaking down UI into components makes code modular and easier to manage.