**WEEK 7 : REACT HO-12**

**1. Key Concepts**

**Conditional Rendering in React**

Conditional rendering means showing different UI based on state or props. In JSX you can do this with:

* if statements (via variables)
* Ternary operators: {isLoggedIn ? <UserPage /> : <GuestPage />}
* Logical AND: {hasFlights && <FlightList />}

**Element Variables**

You can store JSX in variables and decide what to render before returning it. This is useful for more readable conditionals:

let content;

if (isLoggedIn) {

content = <UserPage />;

} else {

content = <GuestPage />;

}

return <div>{content}</div>;

**Preventing Components from Rendering**

Common patterns:

* Return null from a component to render nothing:
* function Promo({ show }) {
* if (!show) return null;
* return <div>Special Offer!</div>;
* }
* Memoization to avoid re-renders when props/state haven’t changed: React.memo(Component)
* In class components, control in shouldComponentUpdate (not needed here since we use functional).

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