Page 1: React Basics

1.	Introd	duction	to F	React:
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- JavaScript library for building user interfaces.
- Component-based architecture.
- Maintained by Meta (Facebook).

2. JSX (JavaScript XML):

- Syntax extension allowing HTML-like code in JavaScript.
- Example: <h1>Hello, React!</h1>

3. Components:

- Functional: function MyComponent() {}
- Class-based: class MyComponent extends React.Component {}

4. Props and State:

- Props: Read-only data passed to components.
- State: Internal data maintained by the component.

5. Event Handling:

- onClick, onChange handlers.
- Example: <button onClick={handleClick}>Click Me</button>

6. Conditional Rendering:

- Use ternary operator or && inside JSX.
- Example: {isLoggedIn ? <Logout /> : <Login />}

7. Lists and Keys:

- Render multiple elements using .map().
- Keys help React identify elements uniquely.

Page 2: React Advanced Topics

 - useState: Manage local state. - useEffect: Side effects like API calls. - useContext: Access context globally. 2. React Router: - Navigate between pages/components. - Example: <route element="{<Home" path="/home"></route>} /> 3. Lifting State Up: - Share state between components by moving it to a common ancestor. 4. Forms Handling:	1. Hooks:
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5. Project Structure Tips:

- Organize components, pages, assets.

- Controlled components using useState.

- Handle input with onChange.

- Example folders: /components, /pages, /assets

6. API Calls with Axios:

- Make HTTP requests.

- Example: axios.get('/api/data')
- 7. Deployment Tips:
 - Use Netlify, Vercel, or GitHub Pages.
 - Build with `npm run build`