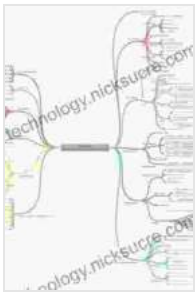# Learning React Modern Patterns for Developing React Apps

React is a popular JavaScript library used for building user interfaces. It is known for its declarative approach, which makes it easy to build complex UIs. However, as your React apps grow in size and complexity, it is important to adopt modern patterns to ensure that your code remains maintainable, scalable, and performant.

Learning React: Modern Patterns for Developing React Apps by Alex Banks

★★★★☆ 4.2 out of 5

Language	: English
File size	: 5227 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 312 pages

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In this article, we will explore effective React modern patterns to enhance the development process and build robust, maintainable, and scalable React applications.

1. Functional Components

Functional components are a modern way to write React components. They are pure functions that take props as input and return JSX as output.

This makes them easier to test and reason about compared to class components.

```javascript
const MyComponent = (props) => {
  return

{props.name}

;
};
```

2. Hooks

Hooks are a new feature in React that allow you to use state and other React features in functional components. This makes it easier to write complex and reusable code.

```javascript
const MyComponent = () => {
  const [count, setCount] =
useState(0);

return (

Count: {count}

setCount(count + 1)}>+

); };
```

3. Context API

The Context API is a way to manage state across multiple components without having to pass props down through the component tree. This is useful for managing global state, such as the current user or the current language.

```javascript
const MyContext = React.createContext(null);
```

```javascript
const MyProvider = (props) => { return {props.children}; };
```

```javascript
const MyComponent = () => { const context =
React.useContext(MyContext);
```

return

{context.value}

; };

4. Redux

Redux is a state management library that is commonly used with React. It provides a central store for managing application state, and it allows you to dispatch actions to update the state.

```javascript
const store = createStore(reducer);
```

```javascript
const MyComponent = () => { const dispatch = useDispatch();
```

return (

{store.getState().count}

dispatch({ type: 'INCREMENT' })}>+

); };

5. React Router

React Router is a routing library that allows you to navigate between different views in your React application.

```javascript
import { BrowserRouter as Router, Route, Link } from "react-router-dom";

const MyComponent = () => { return (
```

Home About

```
); };
```

6. Styled Components

Styled Components is a CSS-in-JS library that allows you to style your React components in a more efficient and maintainable way.

```javascript
const Button = styled.button` padding: 10px; border: 1px solid #000; background-color: #fff; color: #000; `;
```

7. Jest and Enzyme

Jest and Enzyme are testing frameworks that are commonly used with React. They allow you to write tests for your React components to ensure that they are working as expected.

```javascript
import { render, fireEvent } from "@testing-library/react";

test("MyComponent should increment the count when the button is clicked", () => { const { getByText } = render(); const button = getByText("+");
```

fireEvent.click(button);

expect(getByText("1")).toBeInTheDocument(); });

By adopting these modern React patterns, you can significantly improve the development and maintenance of your React applications. These patterns will help you to write code that is more efficient, maintainable, and scalable.

Remember, the best way to learn these patterns is to practice them in your own projects. Start by experimenting with one or two patterns, and then gradually add more as you become more comfortable.

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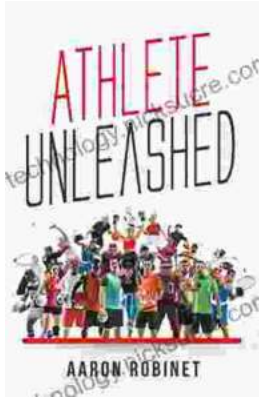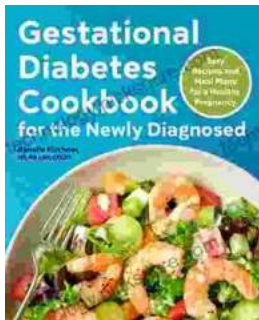|	
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