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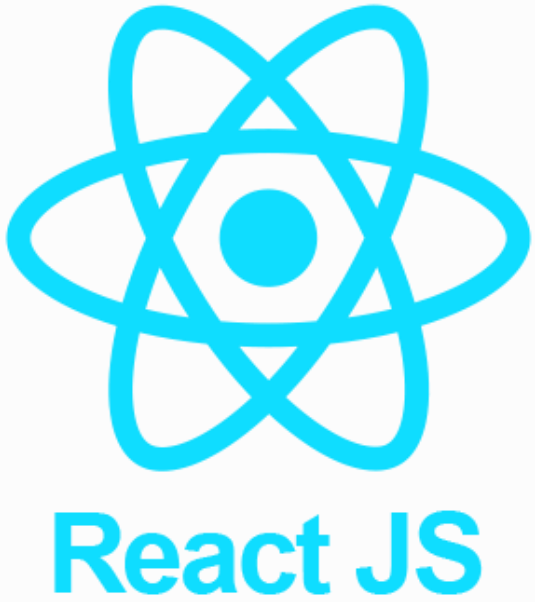
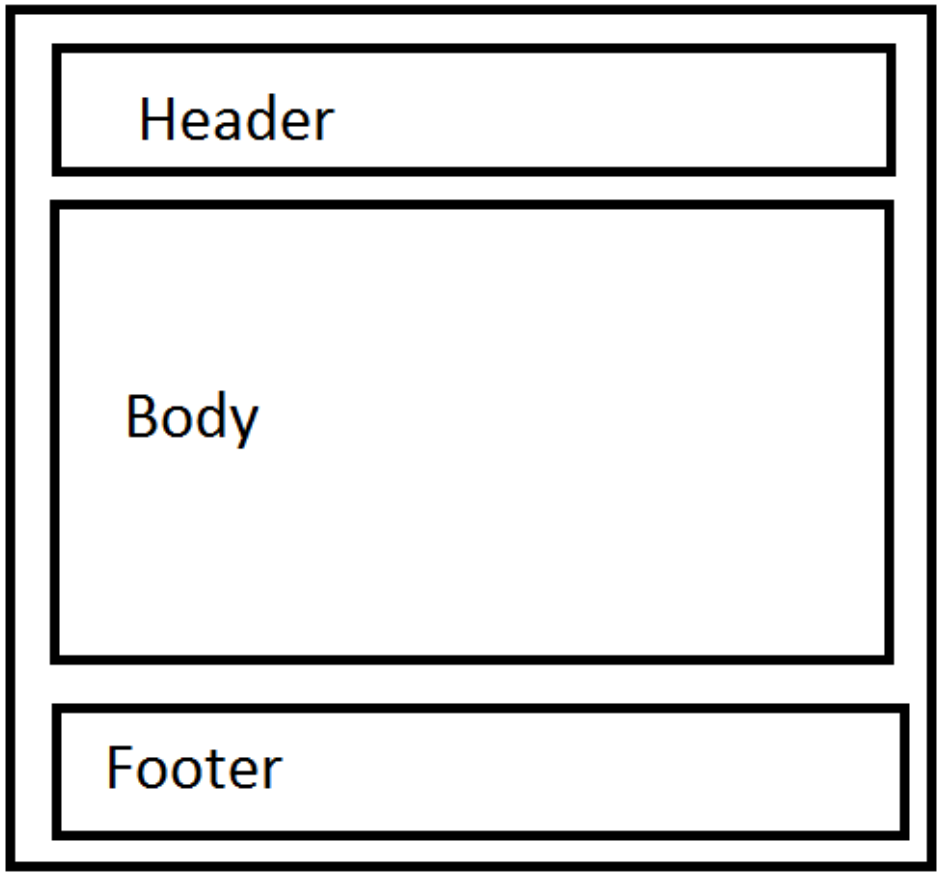
REACT JS

LAYOUT, HOC, REFS



What is Layout?



This component does exactly what its name says - it defines the
layout of the application.
It simply accepts children as props and **render** them to the DOM
together or without other child components.

```
import React from 'react';

const Layout =({children}) =>{
    return(
        <>
        <div>
            <ToolBar/>
            <Sides/>
            <Backdrop/>
        </div>
        <main>{children}</main>
        </>
    )
}

export default Layout;
```

```
import React from "react";
import Layout from "./components/Layout/Layout";

function App() {
  return (
    <>
      <Layout>
        <p>Test</p>
      </Layout>
    <>
  );
}

export default App;
```

HOC

A higher-order component (HOC) is an advanced technique in React for reusing component logic. HOCs are not part of the React API, per se. They are a pattern that emerges from React’s compositional nature.

```
const EnhancedComponent = higherOrderComponent(WrappedComponent);
```

React.Fragment

The React.Fragment component lets you return multiple elements in a render() method without creating an additional DOM element:

```
render() {
  return (
    <React.Fragment>
      Some text.
      <h2>A heading</h2>
    </React.Fragment>
  );
}
```

You can also use it with the shorthand `<></>` syntax. For more information, see React v16.2.0: Improved Support for Fragments.

Refs and the DOM

Refs provide a way to access DOM nodes or React elements created in the render method.

- Managing focus, text selection, or media playback.
- Triggering imperative animations.
- Integrating with third-party DOM libraries.

```
class MyComponent extends React.Component {
  constructor(props) {
    super(props);

    this.inputRef = React.createRef();
  }

  render() {
    return <input type="text" ref={this.inputRef} />;
  }

  componentDidMount() {
    this.inputRef.current.focus();
  }
}
```

React.createRef creates a ref that can be attached to React elements via the ref attribute.

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