**LAZY-LOAD**

This is a **React.js application** that provides **theme management** (light/dark mode) using **React Context API** and **lazy loads** components using React.lazy() and Suspense. The app dynamically imports the **About** and **Contact** pages only when needed, improving performance.

LEVEL 00 : Context Diagram

* **User:** Interacts with the system (toggles theme, navigates pages).
* **React App:** Processes user requests.
* **ThemeContext:** Manages the theme state.
* **Lazy Loaded Components:** Handles dynamic loading of sections.

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| User |

| (Toggle theme, navigate) |

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| React App |

| (Handles state, UI, data) |

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**|** Lazy Load Components

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| About & Contact Pages |

| (Dynamically imported) |

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LEVEL 01 : Breaking down the system

**Theme Management (React Context)**

* The user toggles the theme.
* ThemeProvider updates the theme state.
* The new theme is applied to <body>.

**Lazy Loading Components**

* When a user visits a page, components (About, Contact) are loaded dynamically.
* A fallback UI is shown until the component is ready.

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| User |

| (Toggle theme, navigate) |

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| Home Component |

| (Handles theme & routing) |

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| Calls useTheme()

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| ThemeContext |

| (Stores & updates theme) |

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| Changes theme in state

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| Apply Theme to <body> |

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| Lazy Load Components |

| (React Suspense, Lazy) |

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| About Page | | Contact Page |

| (Dynamically | | (Dynamically |

| Loaded) | | Loaded) |

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Data Flow

* **User Interactions:** Theme toggling, navigation.
* **Theme Management:** State updates through React Context.
* **Lazy Loading:** Using React.lazy() and Suspense.
* **Page Rendering:** Dynamically loading components when needed.