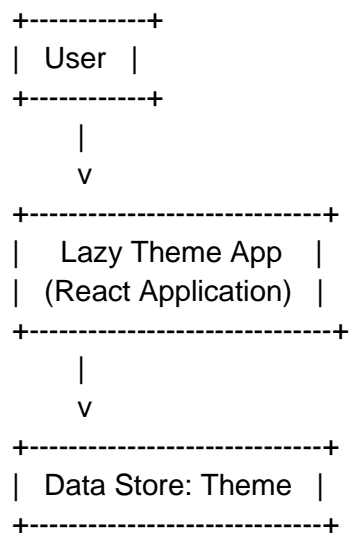


Data Flow Diagram (DFD) for Lazy Theme App:

A Data Flow Diagram (DFD) for a developer typically represents the flow of data within a system, illustrating how data moves between different processes, data stores, and external entities.

Level 0 (Context Diagram)

At the highest level, the user interacts with the **Lazy Theme App**, which manages themes and dynamically loads components.

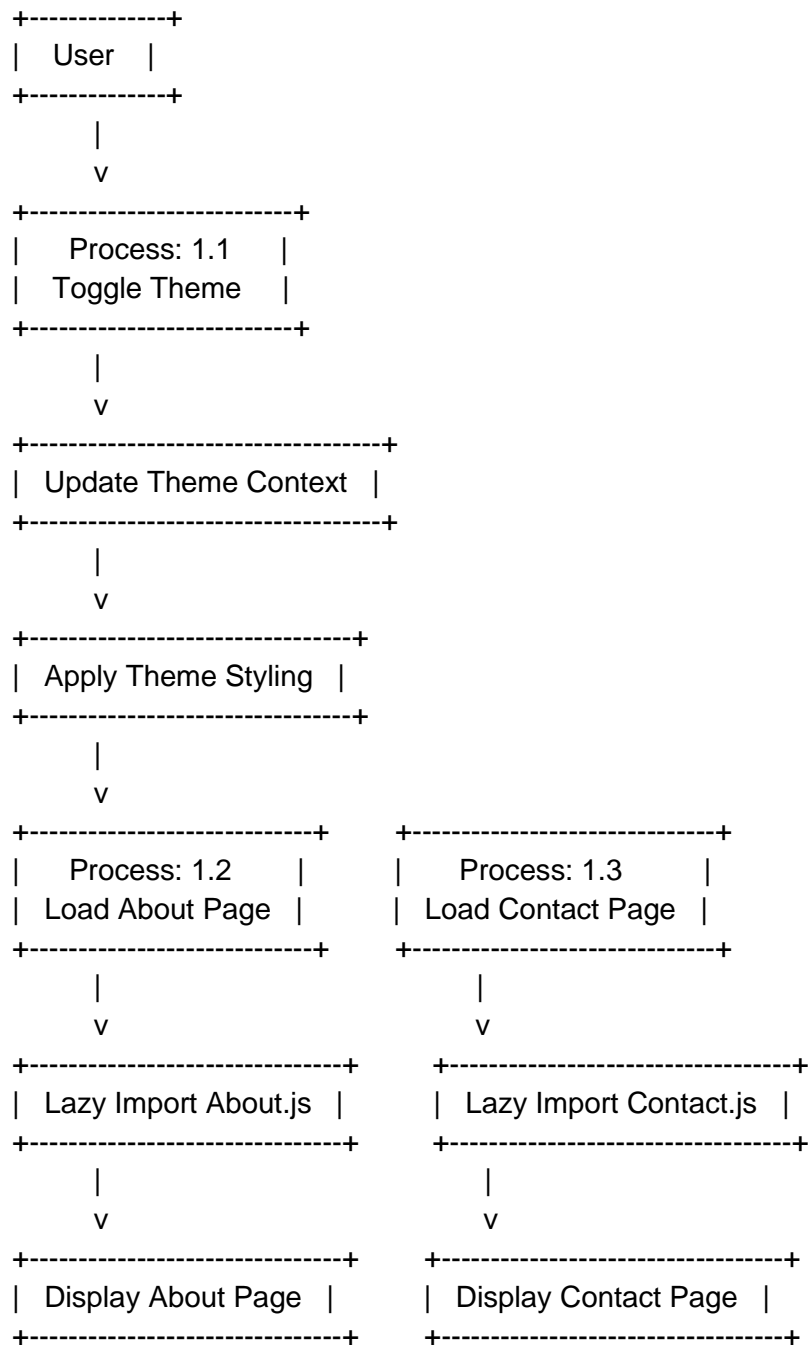


Explanation:

- The User interacts with the Lazy Theme App by toggling themes and loading different pages.
- The Lazy Theme App processes user actions.
- The Theme Data Store stores and update's theme settings.

Level 1 DFD (Decomposition of Process)

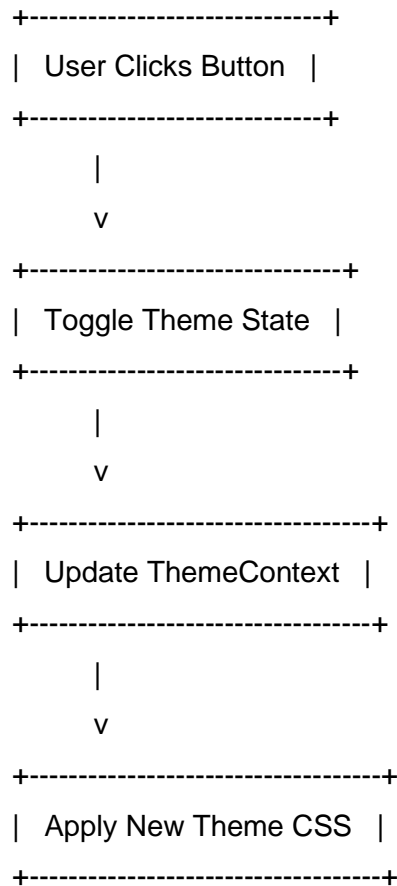
Breaking the system into detailed processes:



Level 2

Each process from Level 1 is broken down further.

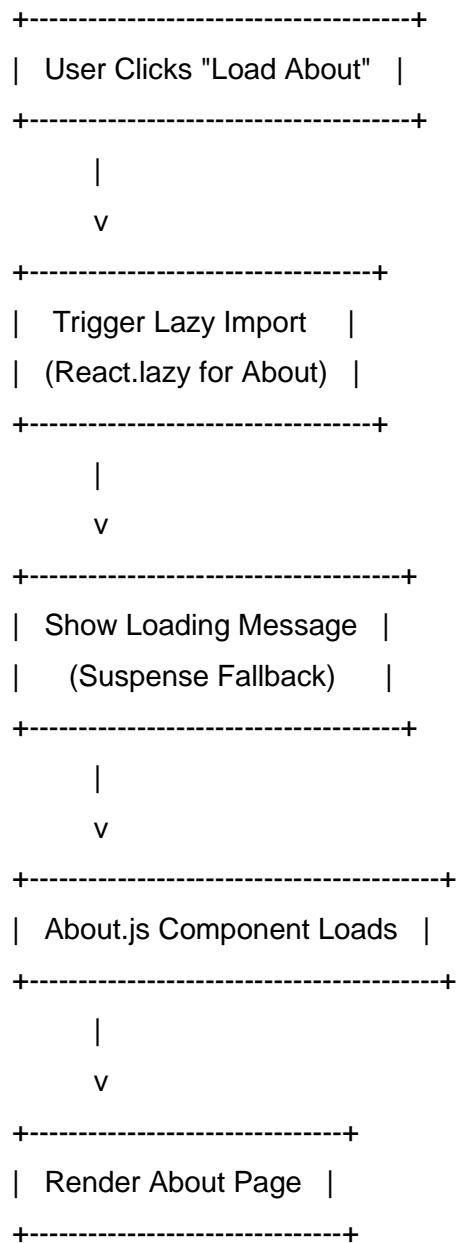
1.1 Toggle Theme



Explanation:

- When the user clicks the toggle button, the app switches between dark/light themes.
- ThemeContext updates the state.
- The CSS styling is applied accordingly.

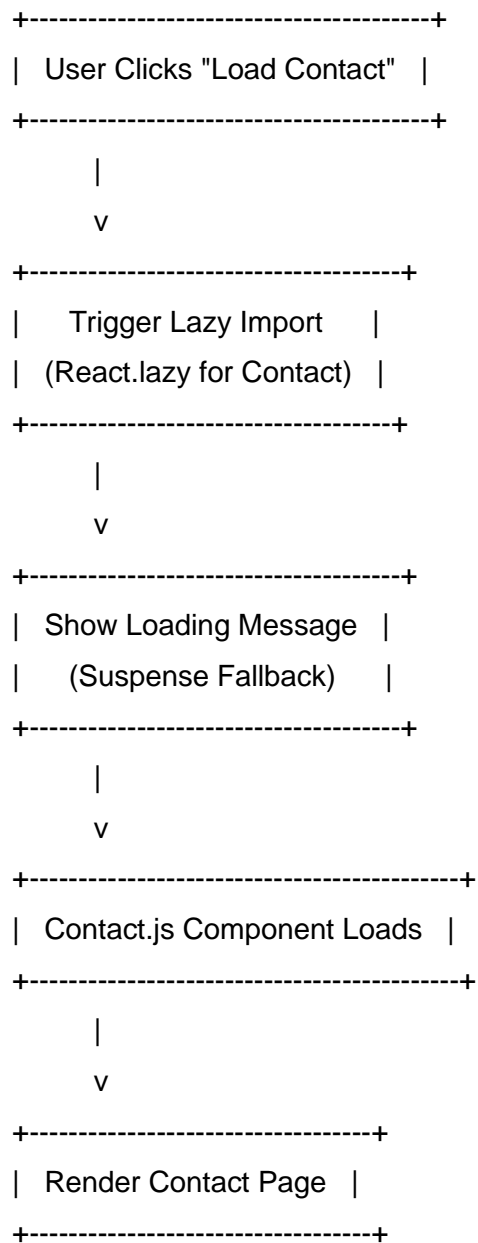
1.2 Load About Page (Lazy Loading)



Explanation:

- The user clicks "Load About".
- `React.lazy()` dynamically imports the `About.js` file.
- While loading, `Suspense` shows a loading message.
- Once loaded, the About Page is displayed.

1.3 Load Contact Page (Lazy Loading)



Explanation:

- The user clicks "Load Contact".
- `React.lazy()` dynamically imports the `Contact.js` file.
- `Suspense` handles the loading state.
- Once loaded, the Contact Page is displayed.

Data Flow

Entities:

1. **User** – Interacts with the UI.
2. **Lazy Theme App** – Handles theme switching and lazy loading.
3. **ThemeContext** – Stores and updates the theme state.

Processes:

1. **Toggle Theme** – Updates the UI theme based on user selection.
2. **Lazy Load About Page** – Dynamically imports and renders About.js.
3. **Lazy Load Contact Page** – Dynamically imports and renders Contact.js.

Data Stores:

1. **Theme Data Store** – Stores theme state (light or dark).
2. **React Lazy Components** – Manages About.js and Contact.js.