

Data Flow Diagram (DFD) for theme-toggler-app

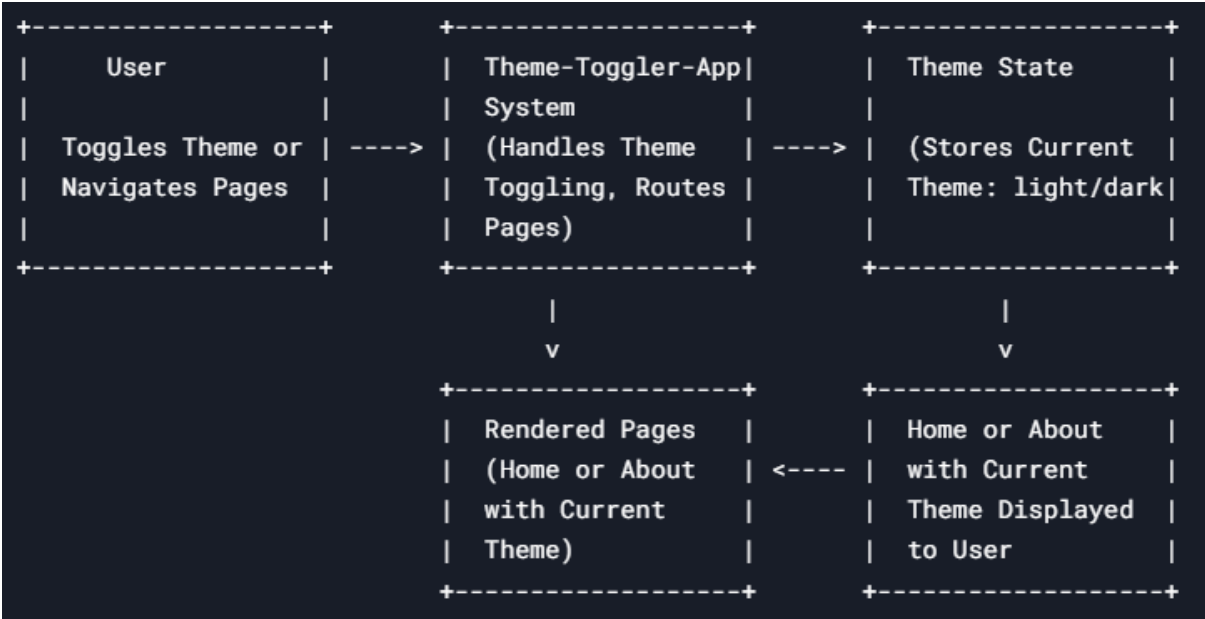
Level 0: Context Diagram

This is the highest-level view of the system, showing the overall flow of data between the system and external entities.

Components

- 1. **External Entity: User**
 - Interacts with the system by toggling the theme or navigating between pages.
- 2. **Process: Theme-Toggler-App System**
 - Handles theme toggling and routing between pages.
- 3. **Data Store: Theme State**
 - Stores the current theme (light or dark).
- 4. **Output: Rendered Pages**
 - Displays the appropriate page (Home or About) with the current theme.

Diagram:



Level 1: Detailed DFD

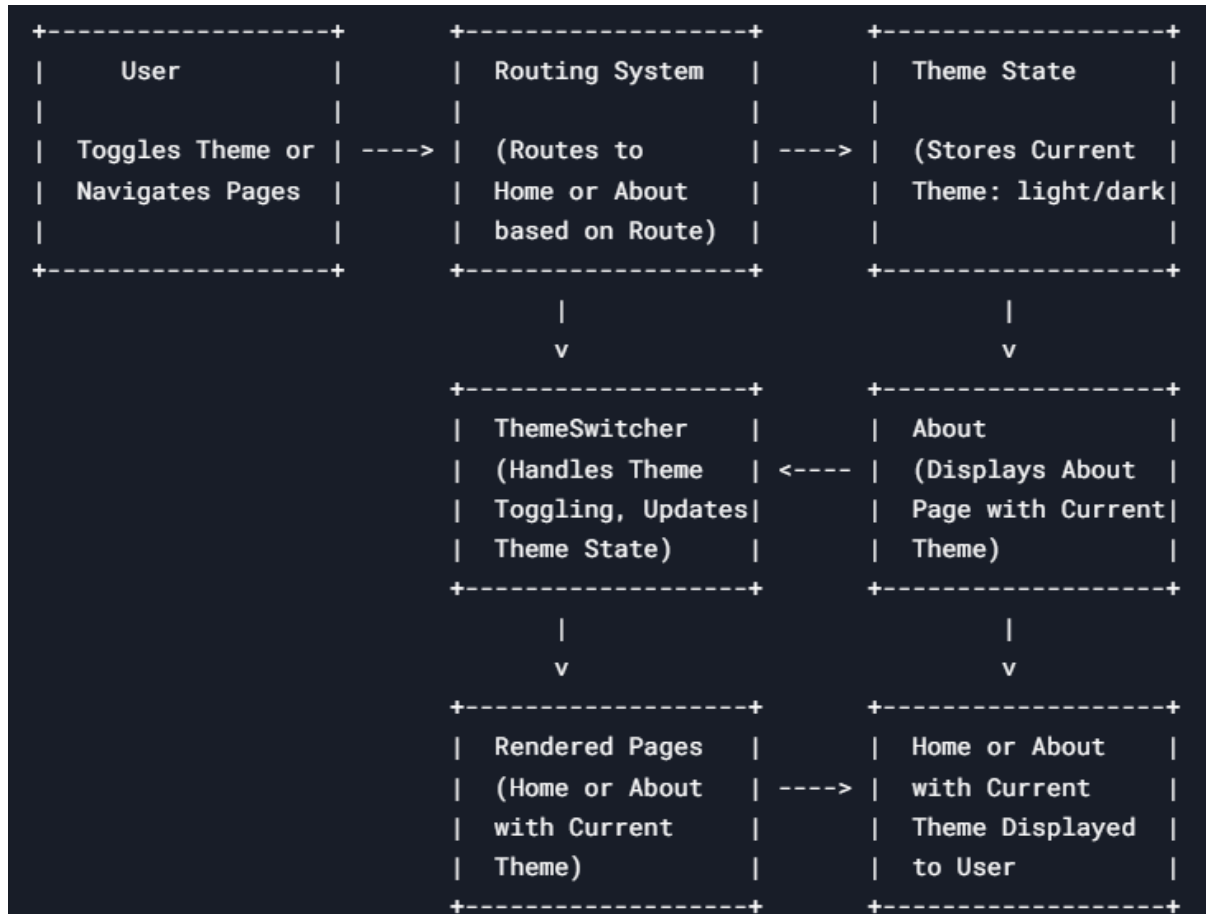
This breaks down the Theme-Toggler-App System into its sub-processes and shows how data flows between them.

Components

- 1. **User:** Toggles the theme or navigates between pages.
- 2. **Routing System:** Determines which page to render based on the route.

3. ThemeSwitcher: Handles theme toggling and interacts with the Theme State.
4. About: Displays the "About" page with the current theme.
5. Theme State: Stores the current theme (light or dark).

Diagram:



Explanation of Data Flow

1. User → Routing System: The user navigates to a specific route (/ or /about).
2. Routing System → ThemeSwitcher: If the route is /, the ThemeSwitcher component is rendered.
3. ThemeSwitcher → Theme State: The ThemeSwitcher toggles the theme and updates the Theme State.
4. Routing System → About: If the route is /about, the About component is rendered.
5. Routing System → Rendered Pages: The appropriate page (ThemeSwitcher or About) is displayed to the user with the current theme.

