Search Filter for a List

Level 0 (Context Diagram)

The diagrams will illustrate how data flows between users, the theme context, the search filter, and the UI updates.

Level 0 DFD

1. User Interacts with the App:

- The user toggles the theme (light/dark).
- o The user enters a search query.

2. React Application

- o Processes the user's input.
- Manages the theme and search filtering.
- o Communicates with the **Data Store**.

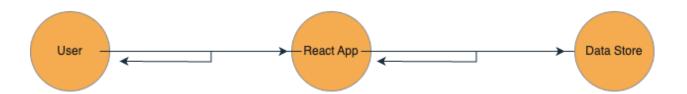
3. Data Store

- Stores the current theme setting.
- Stores the filtered list data.
- Provides updated data back to the React app.

4. React App Updates UI for the User:

- o The user sees the theme change.
- The user sees the updated filtered list.

Level 0 (Context Diagram)



Level 1 DFD

1. User Interactions:

- The user clicks the **Toggle Theme** button.
- The user types in the **Search Input**.

2. Theme Context

- Manages the theme (light and Dark)
- Sends updated theme data to the **Data Storage**.

3. Search Filter Component

- o Captures the search query from the user.
- o Filters the list based on the search input.
- Sends filtered results to the **Data Storage**.

4. Data Storage

Stores both theme settings and filtered list data.

5. Updated UI

- Updates the theme (light/dark).
- Displays the filtered search results.

Level 1 DFD - Seach Filter & React Theme

