

# 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).
- The user enters a search query.

### 2. React Application

- Processes the user's input.
- Manages the theme and search filtering.
- 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:

- 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

- Captures the search query from the user.
- 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

