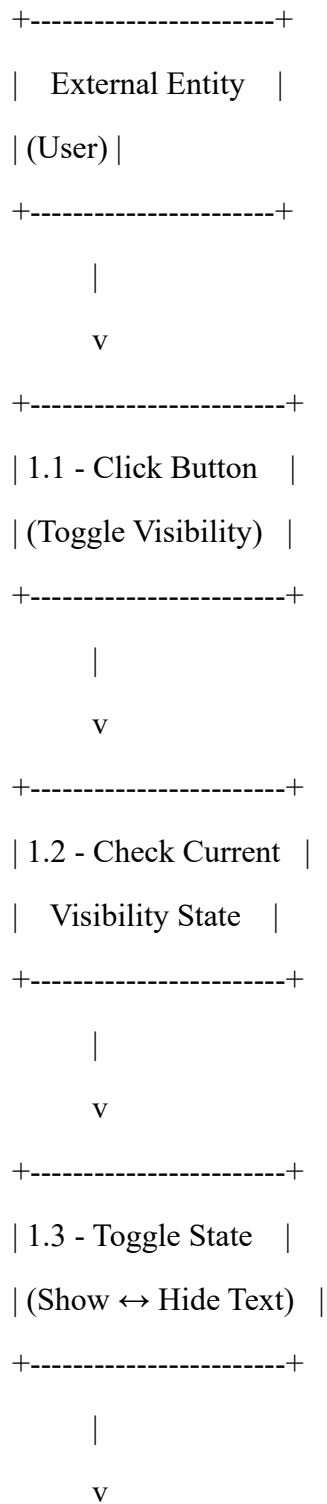


DFD for group-2 mini-capstone

Data Flow Diagram (DFD) for Two Functionalities

1. Show/Hide Text on Button Click (Toggle Visibility)
2. Fetch and Display API Data using fetch or axios with useEffect

Level 1 DFD - Show/Hide Text on Button Click



```

+-----+
| 1.4 - Update UI    |
| (Render/Hide Text) |
+-----+

```

Explanation:

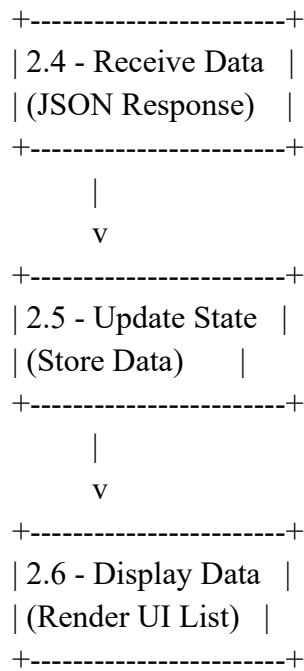
- **User Clicks Button (1.1)** – User triggers the toggle action.
- **Check Visibility State (1.2)** – System checks if text is currently visible or hidden.
- **Toggle State (1.3)** – Updates the state to switch between showing and hiding text.
- **Update UI (1.4)** – React updates the UI accordingly.

Level 1 DFD - Fetch and Display API Data

```

+-----+
| External Entity    |
| (User)             |
+-----+
      |
      v
+-----+
| 2.1 - Load Page   |
| (Component Mounts) |
+-----+
      |
      v
+-----+
| 2.2 - Trigger API  |
| (useEffect)        |
+-----+
      |
      v
+-----+
| 2.3 - Fetch Data   |
| (Axios / Fetch)    |
+-----+
      |
      v

```



Explanation:

- **Load Page (2.1)** – When the user opens the page, the component mounts.
- **Trigger API (2.2)** – `useEffect` runs to fetch data from an API.
- **Fetch Data (2.3)** – API call is made using `fetch` or `axios`.
- **Receive Data (2.4)** – The API responds with JSON data.
- **Update State (2.5)** – The received data is stored in React state.
- **Display Data (2.6)** – The UI updates to display the fetched list.