**Data Flow Diagram (DFD) for React App**

React app is a simple counter that updates state using the useState hook. Below is the **DFD representation**:

**Level 0 (Context Diagram)**

At the highest level, the system consists of:

1. **External Entity: User** → Clicks a button to increment the counter.
2. **Process: React Counter App** → Updates and displays the counter value.
3. **Data Store: React State (useState Hook)** → Stores the counter value.

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| External User |

| (Clicks Button) |

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| Counter App |

| (Process 1.0) |

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| useState Hook |

| (Counter Value) |

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**Level 1 DFD (Decomposed Process)**

Breaking down **Process 1.0 (Counter App)** into detailed steps:

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| External User | | Counter Display |

| (Clicks Button) | -----> | (Shows Count) |

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| Increment Btn | -----> | Update Counter |

| (Click Event) | | (useState Hook) |

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**Explanation of Level 1 DFD Processes**

1. **User Clicks Button**
   * Triggers the **incrementCount** function.
2. **Increment Process**
   * Updates the **counter state** using setCount(count + 1).
3. **Counter Display**
   * The updated count is dynamically displayed.

**Data Flow Summary**

✔ **User clicks a button → Event triggers a function → Updates state → Displays updated count**  
✔ Uses **React state (useState Hook)** for real-time updates.  
✔ **No external database**—only front-end state management.