**Data Flow Diagram (DFD) for Basic Counter App**

**Basic Counter App** consists of simple user interactions where a counter value is incremented or decremented upon button clicks.

**Level 0 (Context Diagram)**

At the highest level, the system consists of:

1. **External Entity: User** → Interacts with the counter by clicking buttons.
2. **Process: Counter System** → Handles incrementing and decrementing of the counter.
3. **Data Store: React State (useState Hook)** → Stores the counter value dynamically.

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| External Entity: |

| User |

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| Counter System | (Process 1.0)

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| useState Hook | (Stores Counter Value)

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**Level 1 DFD (Decomposed Process)**

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

**Explanation of Level 1 DFD Processes**

1. **User Clicks a Button**
   * Triggers either Increment or Decrement function.
2. **Increment/Decrement Process**
   * Updates the **counter state** using React’s useState hook.
3. **Counter Display**
   * The updated count is displayed dynamically on the screen.

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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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| Decrement Btn | -----> | Update Counter |

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

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**Data Flow Summary**

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