**# Data Flow Diagram (DFD) for Form Submission**

## **Level 0: Context Diagram**

### **Overview:**

The **Form System** allows users to input data, validate it, and store it in a database for further processing.

**Entities & Processes:**

* **User:** Inputs data and submits the form.
* **Form Processing System (Process 1.0):** Handles validation and submission.
* **Database (Data Store):** Stores form data.

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| Form Processing Sys |

| (Process: 1.0) |

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| Database |

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## **Level 1: Detailed Breakdown**

### **Processes Breakdown:**

1. **Process 1.1 - User Fills Form:** The user enters details into the form fields.
2. **Process 1.2 - Validate Input:** The system checks for missing fields, incorrect formats, and security issues.
3. **Process 1.3 - Submit Data:** If valid, the data is sent to the server.
4. **Process 1.4 - Store in Database:** The submitted form data is stored for later retrieval.
5. **Process 1.5 - Confirmation Message:** A success or error message is displayed to the user.

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| Process: 1.1 - Fill Form |

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| Process: 1.2 - Validate |

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| Process: 1.3 - Submit Data |

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| Process: 1.4 - Store in DB |

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| Process: 1.5 - Show Message|

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### **Data Flow:**

1. The **User** fills the form and submits it.
2. The **Form Processing System** checks for **validation errors**.
3. If valid, data is sent to the **Database**.
4. A **confirmation message** (success or error) is shown to the user.

**Benefits:** Ensures correct and secure data submission. Prevents invalid data from entering the database. Provides instant feedback to users.