**Step 2: Organize and Describe the Data**

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| **Input** | **Type** | **Sample Value** | **Constraint** |
| Feeding Time | Time (HH:MM) | 08:00, 18:00 | Twice daily |
| Food Level Sensor | Boolean | True/False | Must be True to dispense |
| Bowl Weight Sensor | Float (grams) | 0g–500g | Detects change post-feeding |
| System Status | Boolean | ON/OFF | Must be ON |

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| **Output** | **Type** | **Sample Value** | **Constraint** |
| Servo Motor | Action | Rotate 90° | Only if food is available |
| Alert Message | Text | “Food not eaten” | Sent after 10 mins inactivity |
| Status Log | Text | “Fed at 08:00” | Logged after each action |
| Servo Motor | Action | Rotate 90° | Only if food is available |