Step 2: Organize the data

This table organizes the key data points used by the system.

Data Type	Description	Sample Values / Constraints
Input: System Clock	The current time of day.	`08:00 AM`, `18:00 PM`
Input: Feeding Schedule	The pre-programmed times for feeding.	[08:00, 18:00]
Input: Food Level Sensor	Detects if the food supply is low	`True` (low), `False` (full)
Input: Bowl Weight Sensor	Measures the weight of the food in the bowl.	Initial weight: `100g`, empty: `0g`
Output: Servo Motor	Dispenses food by rotating	Rotate 90 degrees
Output: Alert System	Send a signal to notify staff.	Send notification: "Food not eaten"