## **Step 2:** Organise and Describe the Data

Туре	Name/Source	Description	Sample Values	Notes
Input	Feeding Schedule	Real-time clock	08:00, 18:00	Limited to pre-
	(RTC)	providing current	(twice a day	programmed
		time for feeding	feeding)	times
Input	Food Bin Level	Detects if food is	"Full", "Low",	Must be checked
	Sensor	in the food	"Empty"	before dispensing
		storage bin		
Input	Bowl Weight	Measures the	0 g, 100 g, 250 g	Used to detect
	Sensor	weight of food in		food dispensed
		bowl		and eaten
Input	Error Detection	Detects motor	"OK", "Error"	If error occurs,
	Signals	jam or sensor		feeding cycle is
		malfunction		terminated + alert
Output	Motor Control	Rotates to	Rotates 90° (one	Portion size
		dispense food	portion)	depends on angle
Output	System Logs	Records feeding	"08:00 –	Stored locally,
		event, time and	Dispensed 250 g –	limited memory
		consumption	200 g eaten"	
Output	Staff Alerts	Notifies staff of	"Bin empty",	Alerts via buzzer
		issues	"Jammed", "Not	or LED
			eaten"	