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

* **List input types (e.g., real-time clock, food level sensor, weight sensor under bowl).**

▶ Real-time clock for schedule, food amount control sensor, weight sensor under bowl, measure sensor of the weight of food amount, Feeder status sensor for checking issues like mechanical error

* **List expected outputs (e.g., rotate motor, send alert).**

▶ Activate rotating motor for dispensing food, display remaining food amount, send alert notification, log consumption data, sound or light feedback

* **Provide sample values and operational constraints.**

▶ Feeding time: 8:00am/12:00pm/6:00pm, the amount of food: 100g for morning/150g for lunch and dinner(the amount could change depending on what user edit), bowl weight limitation: must be ‘< 7g’ before dispensing(to ensure the bowl is empty or mostly eaten), consumption detection: must detect if food has been consumed(as ‘< 7g’) within 20 minutes after dispensing, food amount accuracy: dispensed amount must be within ±5g, minimum food reserve: at least 150g of food must be stock in the storage until 10 minutes ago, responding time: alarm must activate within 2 seconds of trigger

Deliverable: Data table with inputs/outputs and operational parameters.