**Step 2 Organise and Describe the Data – Deliverables**

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| **Input/Output** | **Attribute** | **Definition** | **Sample Parameters** | **Constraint** |
| Input | Feeding timetable | Defined timetable for dispensing food | Every 3 hours | Requires manual intervention |
| Input | Clock | Time monitoring for feeding | 09:00AM 12:00PM 5:00PM | Must have power supply like a battery during outage |
| Input | Timer | To determine how long the system needs to dispense food | 10mins | N/A |
| Input | Servo motor | To determine the food portions release | 90 degrees | May reflect inaccurate values due to calibration. |
| Input | Sensor | To manage weight of the food dispensed. | 250g per cycle | Marginal errors due to low-cost sensor system. |
| Input | Power Supply | System power. | 14V | Battery backup is required. |
| Output | Feeding Tray | Place where the food will be dispensed. | N/A | Must be sanitised and cleaned. |
| Output | LED Display | To display system notifications. | Tray full | Must be visible. |
| Output | Alert system | Raise alert notifications when the food is at low levels | Buzzer | Internet connection may be required. |
| Output | Data log | Feeding records for monitoring purpose | 09:00am – 200g dispensed | May require cloud storage |