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

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| **Data** | **Data type** | **Data description** | **Sample values** | **Operational constraints** |
| Clock | Input | Provides current time | 08:00, 18:00 | Trigger scheduled feeding time |
| Food level sensor | Input | Detects food level in the container | Low, Not Low | When detect Low level of food, send out alert |
| Food weight sensor | Input | Measures the weight of food in the feeding bowl | 0g, 50g, 100g | Detect when the food is dispensed or has the pet eaten the food |
| Servo motor | Output | Dispenses portion of food | ON, OFF | Turn on to open the food dispenser |
| Alert | Output | Sends out alerts to staff | ON, OFF | Notify staff of errors like empty container and jammed motor |