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

| **Data Type** | **Description** | **Sample Values** | **Constraints** |
| --- | --- | --- | --- |
| Feeding Time | Scheduled feeding times. | 08:00,18:00 (HH:MM 24h). | Up to 3-4 feedings per day |
| Portion Size (grams) | Amount of food per feeding. | 10g, 20g, 30g | Minimum: 5g, Maximum: 50g |
| Weight Sensor Value | Current weight of food in bowl. | 0g to 1000g | Sensor accuracy ±1g |
| Food Level Sensor | Presence of food in storage bin. | Full, Low, Empty | Alerts if empty |
| Servo Motor Angle | Position control of dispensing valve | 0° closed, 180° open | Controls discharge amount |
| Pet Proximity Sensor | Detect if pet is near (optional) | Detected/Not Detected | Prevent dispensing without pet presence |