# Step 2

## Organizing and Describing the Data

### Listing Input Types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **INPUTS** | | | | |
| **Name** | **Description** | **Sample Values** | **Format** | **Constraints** |
| Real-Time Clock | Reads time from Real-Time Clock | 03:00, 21:00 | 24-Hour Format | Accuracy up to 1 minute |
| Food Level | Amount of food in the Storage Container | 300g, 500g, 700g | Grams | Can hold up to 1000 grams only.  Accuracy will be +/- 1 gram. |
| Bowl Weight | Weight of food deposited in the Food Bowl +  Food Remaining after a pet finishes eating | 30g, 200g, 170g | Grams | Accuracy will be +/- 1 gram. |

## Listing Output Types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **OUPUTS** | | | | |
| **Name** | **Description** | **Sample Values** | **Format** | **Constraints** |
| Servo Motor | Rotates the servo to dispense food into the food bowl | Start  +  Stop |  | Takes 2 seconds to rotate motor |
| Alert (Comments) | Sends notification to the staff regarding feeding or operational status | “Food not eaten”, “Low level of food in Storage Container” | Words (string) |  |
| Buzzer | Auditory alert to the staff | Beeping | Sound | Low volume |