STEP-2

**Organise and describe input and output types**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Variables | Type | Units | Sample values | Notes | Source |
| Feeding  time | INPUT | Time  (Hours and minutes) | 7 am  And 5 pm | Tells the system to feed the pets. | Real- time clock |
| Bowl Weight | INPUT | grams | 0 gram | Detect any food before & after dispensing and after the eating period. | IR sensor |
| Dispense Food | OUTPUT | grams | 85 grams | Dispenses food for the pets. | Servo motor |
| Staff Alert | OUTPUT | Boolean:  YES/NO | YES | Sends a message to the user about an issue. | An app |
| Display and Storage Log | OUTPUT | Grams and Time | 85 grams dispensed; 80 grams eaten at 7 am | Keeps the staff on track about the amount dispensed and food eaten by the pets at the given time. | Computer |
| Food level | Input | High/Low | High | Food has been dispensed properly into the bowl. | Food level sensor |