## **Step 2:**

## Input types:

- Real time clock/timer
- Bin level sensor
- Bowl weight sensor

## Output types:

- Provide food level
- Rotate motor
- Provide alert of food level
- Provide alert of time schedule
- Provide alert of food consumption

# Sample values and operational constraints:

## Inputs:

Input Type	Description	Sample	Constant	Unit	Constraint
		value			
Real time	Sets food	08:00	Absolute	hh:mm	Only runs
clock	dispensing	18:00			at set
	schedule				times
Food Bin	Measures the	2500	Gravity	Grams (g)	Has to be
level	amount of				= > 10%
sensor	food in food				
	bin				
Bowl	Measures the	250	Gravity	Grams (g)	Bowl has
weight	amount of				maximum
sensor	food in food				capacity
	bowl				

### **Outputs:**

Output	Description	Sample	Constant	Unit	Constraint
Туре	2 door paron	value	Conotant	J.IIIC	Constraint
Motor	Motor	90 °	****	0	Will only
	rotates and				perform at
	dispenses				scheduled
	food				times.
Alert system	Sends an	****	****	Text on	Only sends
	alert if food			dashboard	alert at <
	bin is close				10% food
	to empty				level?
Alert system	Sends an	****	****	Text on	Only sends
	alert if food			dashboard	alert if food
	bowl weight				bowl weight
	is				unchanged
	unchanged				after 10
	after time				minutes.

Alert system	Sends an	****	****	Text on	Only sends
	alert if it is			dashboard	alert if out
	not the				of
	scheduled				scheduled
	feeding time				time