

## Step2:Organise and describe the data

Type	Name	Description	Sample Value	Operational Constraint
Input	Real-time clock	Tracks current time to trigger feeding schedule	8:00,18:00	Must be accurate to $\pm 1$ min
Input	Food level sensor	Detects remaining for storage bin	full,low,empty	Must trigger alert if empty
Input	Bowl Weight sensor	Measures food weight bowl & after feeding	0g,50g	Detects if pet ate food
Output	Servo motor	Rotates to releases food from bin	Rotate 90° for 3 sec	Only run for set duration
Output	Alert system	Sends alerts to owner	Plush notification	Trigger on errors/low food
Output	LED indicator	Shows status (feeding,error,idle)	Green,red,yellow	Visible from 2m distance