

IIT ASSIGNMENT - 1

The Problem Solving Process

STEP 2 - Organise and Describe the Data

The following table describe the inputs, outputs, sample values, and operational constraints for the Automated Pet Feeder System.

CATEGORY	NAME/SOURCE	TYPE	SAMPLE VALUES	OPERATIONAL CONSTRAINTS
Input	Feeding Schedule (Real Time Clock)	Time (HH:MM)	08:00, 18:00	User defined schedule
Input	Bowl weight sensor	Integer (grams)	100g	If weight unchanged after feeding, pet may not have eaten
Input	Food level sensor (Hopper)	Boolean/Integer	True/False or 500g	Trigger alert if low or empty
Output	Alert Signal (Led indication)	Boolean	Green	LED will activate when food is available, sucessfull log of food eaten
Output	Alert Signal (Led indication)	Boolean	Red	LED will activate when food isn't available, pet didn't eat
Output	Feeding Log Entry	Integer (grams), time	100g, 08:00 , dispensed	Used for feeding analysis and monitoring