**STEP 1 – Understanding of the Problem and its Definition**

A solution design is required for a low-cost automated pet feeder system that can dispense pet food twice a day at scheduled times, check if the pet has eaten food and send message alerts to the owner if the food has not been dispensed or pet has not eaten the food.  
  
A screenshot of a device

AI-generated content may be incorrect.

(Source: Self-Created using draw.io)