**Assignment 1: The Solving Problem Process**

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Unit: Introduction to Information Technology (8936)

## **Step 4: Implement the Solution (Word Coding)**

* Turn on automated pet feeder.
* Check the time (readTime) if it is feeding time (isFeedingTime). Feeding times are 8am and 6pm daily.
* If it is not feeding time, then feeder will wait for the next feeding time (waitNextFeedTime).
* If it is feeding time, then check the food level sensor in the pet feeder is okay (isFoodLvlOK), which is above 300g.
* If food level (foodLvl) is not okay, then an alert will be sent to staff to refill the feeder.
* If food level is okay, dispense corresponding food weight per meal (foodWtPerMeal), which is 200g for dogs and 120g for cats.
* Rotate motor to dispense food.
* Get the initial weight of the food dispensed (initialFoodWt) in the bowl.
* Check if the pet food bowl is empty (isBowlEmpty).
* If food bowl is empty, create “No food was dispensed” message to be sent as an alert.
* Check if the initial food weight dispensed is correct by testing if it is equal to the corresponding food weight per meal per animal.
* If weight of food dispensed is incorrect, create the message “Not enough dispensed food “plus the initial weight of the food stored earlier to be sent as an alert to the staff.
* If weight of food dispensed is correct, wait for 10 minutes to give time for the pet to eat.
* After 10 minutes, read the current weight of food (currentFoodWt).
* Check if the pet has eaten by comparing the initial food weight to the current food weight.
* If initial food weight is equal to the current food weight, create “Pet did not eat message” and send it as an alert to the staff.
* If initial food weight is not equal to the current food weight, check if the pet food bowl is empty.
* If the pet food bowl is not empty, create a message “Pet only ate “plus the current food weight in the bowl and send it as an alert to the staff.
* If the pet food bowl is empty, it means the pet finished the food.