Step 3: Plan the Solution (Design the Algorithm)

1. Starting the system.
2. Compare the real time and wait for time to match for feeding schedule.
3. If current time is same with scheduled time for feeding, then proceed to dispense.
4. If not keep comparing the time.
5. Dispense food now.
6. Check the weight of the bowl before feeding.
7. Check the weight of the bowl after feeding.
8. If bowl weight is same as before feeding even after adding food, then send alert.
9. If the bowl weight is increased wait for 10 min to check the bowl again.
10. If the weight is greater then 75% send an alert as food not eaten to the staff/user.
11. Record all the feeding result in logbook.
12. Keep checking for problems in system all the time
13. If bowl is empty send an alert.
14. If power is low send an alert.
15. Wait unit the next schedule feeding time.
16. Keep Repeating the process.
17. End

The flowchart is attached below as well:

