

Step 4: Implement the solution (word coding)

Start

: Initialize system;

: Check RTC (feeding schedule);

if (Feeding time?) then (Yes)

: Activate motor to dispense food;

: Check weight sensor (food dispensed?);

if (Food dispensed correctly?) then (Yes)

: Monitor weight sensor (is food eaten in time?);

if (Food eaten within set time?) then (Yes)

: Log data (time, food dispensed, eaten);

: Update display (Normal status);

else (No)

: Alert staff (food not eaten);

: Log data (food left in bowl);

: Update display (Food not eaten);

endif

else (No)

: Alert staff (dispensing error);

: Log data (error: no/low food dispensed);

: Update display (Error/Low food);

endif

else (No)

: Wait until next scheduled time;

endif

: Check system status;

if (Any component failure?) then (Yes)

: Alert staff (system fault);

Endif

stop