Step 4: Implement the Solution (Word Coding)

BEGIN

LOOP

Check current time

IF current time is feeding time, then

Proceed to feeding time

ELSE wait 1 minute and check again

END IF

Read food level sensors

IF food level >= 15%, then

Activate servo motor to dispense food

ELSE display manual feed command, then

send alert to staff (dispenser empty)

Go on standby

END IF

Check if food was dispensed

IF servo motor activated and food dispensed, then

Check bowl weight before feeding

Wait 15 minutes

Check bowl after feeding

ELSE try once more, then

display manual feed command

send alert to staff (food not dispensed)

Go on standby

END IF

Check if pet has eaten

IF bowl weight after feeding < bowl weight before feeding, then

Update feed log

Go on standby

ELSE alert staff (food not eaten)

Go on standby

END IF

END