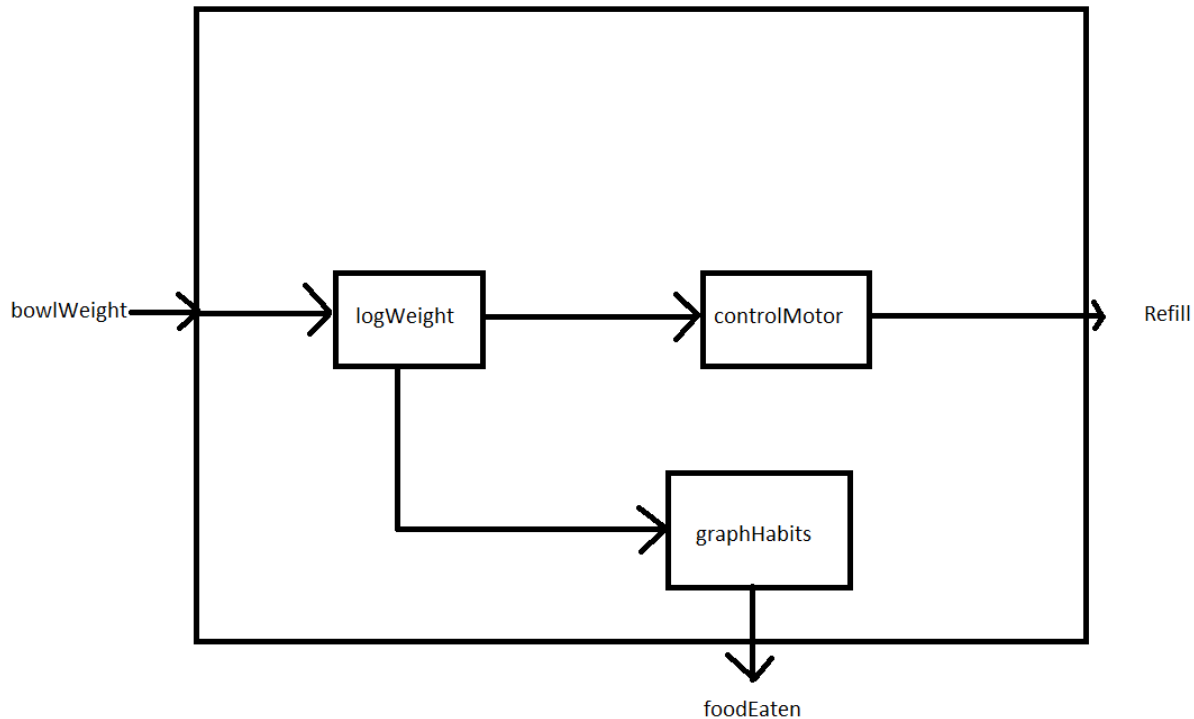


IoT Subsystem Proposal

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Automatic Pet Feeder

Purpose: Automatically refills a bowl with pet food.



Name: Log Weight

Description: Records the weight of the bowl over time.

Inputs: The weight (Analogue/ Kilograms)

Outputs: Digital log of the weight.

Processing: Constantly updates and records the weight of the bowl.

Name: Control Motor

Description: Operates the motor to allow food to be refilled

Inputs: Bowl empty/full (Digital / Binary)

Outputs: Moves motor (Digital)

Processing: Receives a message when the bowl is empty and operates the motor to allow the bowl to be refilled.

Name: Graph Habits

Description: Graphs the eating habits of the pet.

Inputs: Bowl Weight over time (Analogue)

Outputs: Sends data to a server.

Processing: The weight data is sent to a server and graphed over time to allow the user to view the eating habits of the pet.