**Initial benchmarking**: Determine if the dog is overweight - if yes than how much?

* Body condition scoring (BCS) - 7,8,9 is overweight to obese
* Weight
* Activity assessment
* Quality of life
* Behaviour - food seeking behavior, exercise and play interest, other behavior issues
* Dog name
* Breed
* Age
* Gender
* Spayed/ Neutered or intact?
* Existing disease

**Calculations**:

* Target weight
* Time period of full weight loss
* Weight loss schedule - per week or per month?
* Target BCS score
* Energy allocations or daily food ration

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **BEFORE** | Food | Treats & others | Exercise | Disease |
| What | What food is given to the dog? | What treats and other scraps are given to the dog? | What exercise does dog do? | What disease is the dog suffering from? |
| How | How much is given? How many times it is given? | How many treats and other food and how many times? | How much each day the exercise dog does? | How are they treating the current disease? |
| When | When is food given? | When are treats given? | When the dog is given exercise and walks? | Since when the dog is suffering from the disease? |
| Symptoms | Food aggression? begging? | Aggression? Begging? | Enjoys walk or not? Energy level? |  |
|  |  |  |  |  |
|  |  |  |  |  |

Before

* What food was given?
* How many times? What times?
* How much each time? May be diff proportions each time?
* Other than food -
  + Treats (what, how much and how many times)
  + Table scraps (what, how much and how many times)
  + Freedom to eat anytime he/she wants?
* Bring household habit of feeding the dog?

After

* What food should be given?
* How many times? What times?
* How much each time?
* What other items can be given?
  + How to measure each
  + What to give and what not to give?

Get other symptoms of fat dog - dry nose, more panting as they feel difficult in breathing,

People have specific questions -> how to answer them?

<https://drsophiayin.com/blog/entry/is-your-dog-fit-or-fat-learn-how-to-body-condition-score-him/>

Have suggestions for home made treats and food → for gain or lose weight → have a review system for that too. Develop a nice system to get views and learning from others

Modules or different sections:

1. Body condition scoring (BCS) of dog:

<https://www.thedrakecenter.com/services/pets/blog/fit-or-fat-your-pets-body-condition-score-bcs>

<https://www.thedrakecenter.com/materials/obesity-dogs>

<https://www.aaha.org/aaha-guidelines/nutritional-assessment-configuration/bcs-and-mcs/>

We develop a computer vision/deep learning/ augmented reality solution for this.

The dog owner is asked to click side and top view of the dog.

Give them good analysis of BCS and also body shape

Do analysis on body shape and type and amount of exercises dog have. May be breeds etc.

1. Build database
   1. Dog breeds
   2. Dog breed and ideal weight
   3. Dog normal issue as per breeds
   4. Dog breed and normal exercise and calorie burnt
2. Build logic
   1. Dog target weight
   2. Dog target exercise
   3. Dog target feed