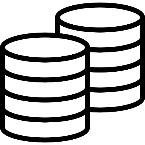
**Design:**

 Cloud Computation

Registration & Login

+ String name

+String Password

+String Age

Hashed password

Object detection

+Image, +Image color & Font

+display image, +draw bounding box,

+Region mining, + Region selection

+Resize image

Volume measurement

+on preview size, +TensorflowYOLOdetection,+tensorflowboxdetection

Nutritional Table

+String[] items

+double vloume

Picture

Nutritional

Insights

New recipes

Analytical Data Store

Analystics and reporting

Batch Processing

Weight log

Data Storage

Stream

Processing

Real-Time Ingestion

Use-case realization:

1. Login:

Download from “App store” or “Play store” -> Application splash screen -> login with email and password -> starts using the application.

User

1. Scanning an item (un-subscribed):

User takes a photo -> Photo goes to cloud -> Cloud computes the total calorie ->Shows the result to the user.

User

1. Scanning an item (Subscribed):

User Login -> System authenticates as paid user -> User takes a photo -> Photo goes to cloud -> Cloud computes the total calorie -> Shows the detailed result to the user.

1. Manual Entry:

User Login ->System authenticates -> Opens the Manual entry interface-> User enters each item, and quantity->cloud computes the total calorie-> Shows the result to the user.

User

1. History:

User Login ->System authenticates ->User opens the history tab-> Application fetches that user’s past item->Shows the list of items to the user.

User

1. Weight Log:

User Login ->System authenticates ->User opens the weight log tab->User Enters the weight->System logs the weight with date->Shows 7 last weight and dates.

User

1. New Recipes:

User Login ->System authenticates that it is a paid user ->User opens the recipes tab->system fetches recipes based on the past item->Shows the list of recipes to the user.

1. Reviews:

User login->User takes a photo->Cloud computes the result->review box pops up->User gives a review->System saves the result with review->Cloud recomputes the result using the review->Saves it for later use.