

HouseHold

Specification

The goal of the application is to track various information about the state of a household.

1. Stock management

One of the main features is the management of stock of various items and material in a household. The items can range from cooking stuff (milk, flour, rice, cooking oil, etc.), to hygiene and health stuff (shower gel, toothpaste, various drugs and medicines), to maintenance and reconstruction material (paint, bulbs, packed concrete mixture, planks, bricks) to inventory (furniture, books, DVDs, etc.). The items should be categorized (with a hierarchy of categories (paint - wood paint - brown paint) and have a location (which should be shared by multiple items). It is necessary to track different pieces of item of the same type separately (2 cans of the same paint separately), including the possibility to track portions of the items (1 can of paint already used with just a half of paint remaining). For each items, time information should be tracked (when added/bought, when opened, when used). Amount of material in each item should be tracked (one sack of 1kg of rice, one can of 0.5l of paint, ...). All basic units should be supported (weight, volume, distance, dimensions). Aggregation for the amounts is expected (How much paint do I have in total?). Basic information like title, description, tags, picture, and similar for each item is obvious. It should be possible to set up expiration date for each item and get notifications when an item is about to expire so it can be discarded or restocked. Advanced searching is needed, obviously. Listing items based on category of various levels (getting all paints, getting only wood paints, etc.), name, date of expiration or opening.

2. Sharing the household

It should be possible to share the household data with other users (explicitly or in a group/family/friends). Individual items should have a visibility level set to determine, who can see the properties of that item.

3. Energy consumption tracking

Along with the information about the inventory of the household, tracking of energies should be also possible. Registering consumption of water, electricity, gas or others should be possible. It should be possible to attach bills for specific period and value ranges. It should be possible to set up reminders for registering the consumption values. It should be possible to browse the values, including visualization of the consumption, comparing consumption in different periods of time.

4. Tasks

When sharing the household information, it should be possible to manage tasks. The user can create tasks of different types, setup deadline, priority, assign a responsible person from the users in the household...