

FIT5136 Software Engineering

Client's Informal Description of "Monash Fruit and Vege (MFV) Store"

The Monash Fruit and Vege (MFV) Store is a typical suburban store selling perishable fruits and vegetables. The store has asked your team to develop an inventory system. The system will contain information on all the perishable products that are sold to the general public.

The system must be developed in either Java or Python, text-based or GUI-based. (No web or enterprise application!)

As the name implies, the store sells fruits and vegetables. Customer can purchase fruits and vegetables in kgs, in bags or in bunches. For example, Asian greens are sold in bunches, some fruits can be purchased either in loose form and weighted at checkout, or in bags of specific weight at a fixed price such as a 5kg bag of potatoes and a 10kg bag of oranges. Some vegetables are sold as a whole, or as a half, eg. a whole celery or half a celery, at a fixed price.

The software system will maintain information on the products being sold. Surely, each product will have a name. For identification purposes, it also has an id. Products can also be sourced locally or from overseas.

Every perishable has a shelf life. The shelf life will be different for different product. For example, oranges can have a shelf life of 2 weeks while some Asian greens can only have a shelf life of 5 days. The shelf life will start from the day when the product is put on the shelf for sale. At the end of the shelf life, the product will be taken off the shelf on the expiry date. They will be disposed off - mostly to charities if they are still of decent quality but sometimes to the rubbish bin.

As the product gets closer to the expiry date, its price may come down before it is taken off the shelf.

The system is designed for two users: Store Owner and Customers.

The system allows the owner to maintain the database of perishable goods. The owner can:

- log in
- add products,
- view the products
- edit the products (price, expiry date etc)
- remove the product
- remove registered customers.

The system allows a customer to register and purchase products on line. The customer can:

- register
- log in
- view the products
- purchase the products
- unregister himself/herself from the system