Title

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# Requirements/Specification

For this project, the objective is to design and implement a simple graphical user interface(GUI) program using JavaFX. The program will also need to have the ability to save and use data across different run times.

The program is about a magazine subscription service where the main part of the magazine is made available to all customers along with their chosen extra supplements.

A supplement has a name and a weekly cost.

The main magazine also has a weekly cost.

A customer is expected to have a name, an address, an email address, and a list of supplements.

A customer's address should have a street number, street name, suburb, and postcode.

A customer can either be a paying customer or an associate customer.

A paying customer has a payment method and a list of associate customers they are paying for.

The payment method could be either a credit card or direct debit from a bank account.

An associate customer is linked to a paying customer who will pay for the subscription cost of the associate customer.

The GUI program has three different modes, create, edit, and viewing.

In viewing mode, users will be able to view the list of supplements, list of customers, and an information panel.

When a supplement is clicked, the name, cost, and list of customers that are subscribed to the supplement will be displayed on the information panel.

When a customer is clicked, the name, address, email address, list of supplements, type of customer, list of associate customers if the customer is a paying customer or the paying customer if the customer is an associate customer, and the billing history if the customer is a paying customer.

In edit mode, users will be able to change existing information about the supplements and customers, such as changing of information, adding new customers, deleting customers, adding and deleting supplements. When adding new associate customers, the paying customer should be selectable from a drop-down list of existing paying customers.

In create mode, the user will create a magazine before adding supplements and customers.

## Assumptions

* The program is not for magazine delivery. Contents of the magazine are not stored or distributed through it. The program is only designed for an administrator of the magazine service to manage the service.
* A customer must be either a paying or associate customer.
* All customers must have a name, an address, and an email address. Supplements are optional.
* A name can be any string of the English alphabet with spaces.
* An email address can be any string of characters with an ‘@’ in the middle.
* An address must have a street number, street name, suburb, and postcode.
* Paying customers must have a payment method. List of associate customers linked to the paying customer are optional.
* Payment method can be any string of numbers
* An associate customer must have one and only one paying customer.
* The billing history of the paying customer are not stored, and are faked.

# User Guide

# Structure/Design

# Limitations

# Testing