

# Project Proposal: GotoGro-MRM

## Background

Goto Grocery is a membership-based grocery store like Costco. They have trouble managing their inventory and often overorder. They currently use a paper-based management system but are looking to upgrade. Goto Grocery have commissioned us to create a basic application that will track their sales data and allow for better inventory prediction.

## Scope

To address the main issues above the client has stated two primary objectives the software should fulfil:

**Table 1. General Client Objectives**

| No. | Item                  | Description   |
|-----|-----------------------|---|
| 1   | Manage member records | Provide a visual interface to search for and retrieve membership details of each member   |
| 2   | Generate Reports      | Display visual reports on sales data for each member as well as create exportable csv reports, potentially for further processing |

To support this goal the following specific requirements also need to be met:

**Table 2. Specific Objectives**

| No. | Item                             | Description   |
|-----|----------------------------------|---|
| 1   | Creation of database             | The database will hold membership records and can be queried to present details for the interface |
| 2   | Creation of an application layer | The application layer will provide the GUI for the company to interact with the database          |

In order to best meet the client's needs, reasonable extensions beyond these goals were agreed upon by the development team:

**Table 3. Extension Objectives**

| No. | Item  | Description  |
|-----|---|--|
| 1   | Ability to manage inventory within database | To easily track sales data, the database must have a record of all the items Goto Grocery sells. In addition, the capability to add more item to the database would be desirable |
| 2   | Ability to manage members within database   | Member details should be recorded in the database and displayed when relevant. The ability to add more members is a desirable addition   |
| 3   | Virtual sales terminal                      | This interface will allow the team to add sales records as if they were recording a real-life transaction. In future this would ideally be linked to their POS system            |

Tables 1-3 capture the list of achievable tasks, however there are some tasks that lie outside the scope of the project. Ideally, the items shown in Table 4 could be easily implemented in future, built upon the base program:

**Table 4. Out of Scope Objectives**

| No. | Item                                       | Description   |
|-----|--|---|
| 1   | Ability to manage stock within database    | This would entail the ability to enter in stock changes to the system. This would pair with the sales records to even more effectively manage inventory   |
| 2   | Low stock trigger                          | This would entail the ability for the system to automatically detect when stock for a given item reaches the low threshold. This would trigger an automatic alert to help manage inventory                                |
| 3   | Connecting POS to database and application | As outlined above, it is out of scope to implement a physical connection between a scanner and the application, however this would be ideal in fully digitising the system and making the solutions as robust as possible |

## Deliverables and schedule

The physical deliverable will be in the form of an exe file which will house the interface and the database. It is not within scope to provide a server; thus, it is reasonable to house the database within the program to demonstrate proof of concept and meet the needs of the client.

Limited training will also be provided to brief the client on how to use the product before handoff. This will be delivered during the final sprint in the testing phase.

To complete the project a series of tasks need to be completed. The predicted project backlog is shown in Table 5.

**Table 5. Initial Release Schedule of the Product backlog items**

| No. | Item                               | Dependencies | Business Value<br>(1 least – 10 most) | Release Schedule<br>(Sprint 1   2 ) |
|-----|------------------------------------|--------------|---------------------------------------|-------------------------------------|
| 1   | Inventory Table                    | -            | 8                                     | Sprint 1                            |
| 2   | Item Table                         | -            | 8                                     | Sprint 1                            |
| 3   | Member Table                       | -            | 8                                     | Sprint 1                            |
| 4   | Sales Record Table                 | 1,2,3        | 10                                    | Sprint 1                            |
|     |                                    |              |                                       |                                     |
| 5   | Add new member interface           | 3            | 4                                     | Sprint 2                            |
| 6   | Add new item interface             | 2            | 2                                     | Sprint 2                            |
| 7   | Add sales record                   | (1-4)        | 10                                    | Sprint 2                            |
|     |                                    |              |                                       |                                     |
| 8   | View member sales record           | 7            | 9                                     | Sprint 2                            |
| 9   | Predict required inventory         | 8            | 9                                     | Sprint 2                            |
|     |                                    |              |                                       |                                     |
| 10  | View visual report of sales record | 8            | 8                                     | Sprint 2                            |
| 11  | Export report in csv format        | 10           | 8                                     | Sprint 2                            |