Project Proposal: GotoGro-MRM

Team Details

Team Name:	MSP 14
Tutorial:	Tue 2:30 ATC325
Tutor:	Dr Kaberi Naznin

Members:	
Dylan Jarvis	102093138
Rabya Tayal	103144215
Simon Tran	103602807
Thomas Babicka	103059885
Cody Cronin-Sporys	103610020
Nicholas Dyt	101624265

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 (1 least – 10 most)	Release Schedule (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

Member Comments

Table 6. Member Comments

Name	Description
Dylan	I believe the scope defined here strikes a good balance between necessary and advanced features. All goal should be achievable within the project timeframe.
Simon	In brief, I find myself largely in agreement with the group's final decision with regards to planning out the scope and product backlog of the project. Most major disagreements were quickly settled by group debate. However, I somewhat disagree with the need to generate multiple reports as I believe that only one major report is required, and more are unnecessary.
Rabya	I am in full agreement with the team's responses to the tasks. A management system consisting of a user interface and a database accomplishes the company's requirements and makes a much better system than a paper based system.
Cody	I agree with our final decision on scope and backlog as it meets all the criteria written in the assignment brief. We worked as a team to come up with the answers, so any issues and disagreements were settled during our discussion. I was instrumental in moving stock management out of scope, as I feel the company does not directly refer to it, however the brief is fairly vague and there is room for interpretation, so it’s reasonable to keep this on our radar
Thomas	I agree with our group outcome to the task. I like the installation and interface of the system and I think they have all the requirements that are needed. Any disagreements we had were settled during our group outcome so we could come up with a group agreed upon design.
Nic	Overall, I agree with all decisions made since we decided on them together as a group. I believe we will obviously add some refinement to our ideas as we progress with the development but that is standard for all development processes. I think our scope is as accurate as we can make

	it with the vague outline provided and our backlog likewise accurate. I'm sure if we had a more detailed description of the problem we could adapt our responses.