

Project Proposal¹: GotoGro-MRM

Background:

Goto Grocery, a member-based grocery store located in Hawthorn, is currently facing challenges in managing member records and fulfilling their grocery needs efficiently. The store currently relies on a paper-based system to track member details and sales records, leading to difficulties in meeting member expectations and avoiding unnecessary orders. To address these issues, Goto Grocery is seeking a comprehensive software solution that can streamline member management, track grocery needs, and provide valuable insights for better decision-making.

Scope:

Objective:

The objective is to create a user-friendly GUI-based system for GotoGro, enabling efficient management of member records, real-time alerts for necessary stock orders, and seamless data export to CSV format. The main aim is to overcome current challenges from the paper-based system, enhancing customer satisfaction, optimizing stock levels, and modernizing member management for the store's improved operational efficiency.

In Scope:

1. **Member Registration and Management:** Create, edit, view, and delete member profiles, storing contact details, purchase history, and preferences.
2. **Efficient Sales Tracking:** Record and manage sales transactions, providing real-time access to sales data for informed stock management decisions.
3. **Accurate Grocery Needs Analysis:** Utilize historical sales data to predict member grocery needs and recommend stock purchases.
4. **User-Friendly Interface:** Design an intuitive GUI for seamless user interaction and data entry.
5. **Report Generation:** Generate CSV-exportable reports summarizing member information, sales records, and grocery needs insights.

Out of Scope:

1. **Payment Processing:** Payment-related functionalities and integration with payment gateways are not within the scope of this project.
2. **Inventory Management:** Detailed inventory tracking and management are not included in this proposal. Only stock levels and sales information will be in scope to ensure member-preferred products are in stock when they need them.
3. **Third-party Integrations:** Integration with external systems beyond the scope of member management and grocery needs assessment is not part of this project.

Deliverable and Schedule:

Deliverables:

- **Source Code:** Provide the complete source code of the application for potential future modifications and enhancements.
- **Running Application:** Deliver fully functional software, including a user-friendly graphical user interface (GUI) and the necessary backend code.

¹ This document is by no means a “full project proposal”. It has been simplified and customized for the purposes of SWE20001 teaching. The full project proposal includes many other sections which have not been discussed during the first few weeks of SWE20001 teaching.

- **User Manual:** Develop a comprehensive user manual that guides users in effectively utilizing and navigating the application.
- **Training Materials:** Include basic training videos to assist users in getting acquainted with the application's features and functions.

Initial Release Schedule of the Product Backlog items:

The initial release schedule will be divided into 4 sprints:

1. **Sprint 1:** Focuses on database creation and backend processing/functionality.
2. **Sprint 2:** Focuses on UI design and webpage creation.
3. **Sprint 3:** Focuses on Reporting functionality.
4. **Sprint 4:** Dedicated to testing.

No.	Item	Dependencies	Business Value (1 least – 10 most)	Release Schedule (Sprint 1 2 3 4)
F1	Add a member: <ul style="list-style-type: none"> • Create database tables for new members. • Create functionality for adding new members in the backend. 		7	Sprint 1
F2	Add a sales record: <ul style="list-style-type: none"> • Create database tables. • Backend functionality. • Link Sales records with member records 	F1	8	Sprint 1
F3	Edit a sales record: <ul style="list-style-type: none"> • Create database tables. • Backend functionality 	F2	8	Sprint 1
F4	Implement grocery preferences: <ul style="list-style-type: none"> • UI page/s to allow members to select their grocery preferences. • Backend processing of preferences and storing them against members' records 	F1, F2	9	Sprint 1
F5	Build webpage components for member management	F1	8	Sprint 2
F6	Build webpage components for sales management	F2, F3	8	Sprint 2
F7	Add backend functionality to generate CSV reports	F1, F2, F3, F4	9	Sprint 3
F8	Build webpage components for CSV report export	F7	8	Sprint 3
F9	Application Testing	F1, F2, F3, F4, F5, F6, F7, F8	10	Sprint 4