

*In partial fulfillment of the requirement for
Application Development 1
420-942-VA section 05810
Vanier College*

CIM Grocery

Application

Subject:
Application Development 1 (Desktop)

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PROJECT AIM & DESCRIPTION

CIM Grocery (known as Chi-Tao, Ibrahim, Mark Grocery) is an online grocery application that allows users to order groceries online and pay for them. A user can choose variety of grocery products and upon checkout the user may choose to pick up the items or have it delivered. The user may track current location of the delivery if he/she opted to have it delivered. This application's main objective is to provide an effective grocery shopping experience without requiring users to visit a physical store.

The aim of the project is to apply all the things learned from this subject particularly using C#. The team tried applying WPF and MVVM architecture in this project. Another requirement was to implement API's for login, SMS or email authentication, tracking delivery, and rating the service.

The GitHub link of the project can be found below:

https://github.com/cheetolee/App_Dev_1_Team_Project.git

FUNCTIONAL & NON-FUNCTIONAL REQUIREMENTS

Functional Requirements	Non-Functional Requirements
<ol style="list-style-type: none">1. The user must be able to create an account.2. The system must allow users to verify their accounts using their phone number.3. The system must allow users to log into their account by entering their email and password.4. The system must allow users to log in with their Google, Facebook, and GitHub accounts.5. Admin will perform CRUD operations in managing the grocery items.6. The user must be able to add an order to his/her cart.7. The user must be able to view the list of items in the cart before placing the order.8. The user must be able to modify an order to his/her cart.9. The user must be able to delete an order to his/her cart.10. The user can check-out the order so they can make payment.11. The user can make payment.12. The system must send a confirmation email whenever an order is placed.13. The user can choose between 2 options, pick-up, or delivery.14. The user can see the nearest store location via Google Maps API.15. The user must be able to track the current location of the delivery guy.16. The user must be able to rate the services.17. The user must be able to log out.	<ol style="list-style-type: none">1. System should be efficient.2. Rate of failure should be low.3. Customer details must be stored in the database.4. Mode of payment is done electronically.5. The system parts should be easy to modify.6. The system should provide appropriate error messages when an error occurs.7. The Application will give access only to the authorized user.8. The Application should be easy to manage so that the user can handle it easily.9. Online payment must be secured.10. Quick and efficient services.

CIM's USER STORY

ID	As an <type of user/ persona>	I want <goal/ objective> User story	So that <benefit/result/some reason>
1	User	to be able to create an account,	I can use the grocery application.
2	User	the system to send me an OTP in my mobile number,	the system will have additional level of security.
3	User	to be able to sign in using email and password,	I can be assured that nobody could access my account.
4	User	to be able to log in using my Google, Facebook, and GitHub accounts,	I have more options to login.
5	Administrator	to do CRUD operations in managing grocery items,	I can create, view, update, and delete grocery items in the system.
6	User	to be able to add an item to his/her cart,	I can have a temporary list of items that I would like to buy.
7	User	to be able to view list of items in the cart before placing order,	I can check the items that could be bought in this app.
8	User	to be able to modify list of items in the cart before placing order,	I can delete or add items in my cart.
9	User	to be able to delete items in my cart,	I can remove an item if I change my mind.
10	User	to be able to checkout,	I can proceed paying the items in my cart.
11	User	to have a payment function,	I can pay for the items upon checkout.
12	User	the system to send me an email confirmation upon making an order,	I can confirm what I ordered and have a proof that I placed an order in my email.

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13	User	to have an option to pick-up or deliver the items,	I can have 2 options how to retrieve my order.
14	User	to see nearest store location via Google Maps API,	I can easily track the store location.
15	User	to be able to track my delivery,	I can be notified if my delivery is near.
16	User	to have a rating function,	I can rate my experience about the service.
17	User	to be able to logout,	I can logout when I'm done using the application.
18	User	the system to be efficient,	I want to be able to transact quickly.
19	User	the system to have low rate of failure,	I do not have to restart the application all the time.
20	User	the customer details to be captured in the database,	data can be retrieved efficiently.
21	User	the mode of payment done electronically,	I won't pay in cash.
22	Administrator	the system to be easily modified,	I can maintain it easily.
23	User	to be able prompt me appropriate error messages,	I won't be stuck when I commit an error.
24	User	the application to give access to authorized users,	I can be assured to have a secured application.
25	User	the system to be user friendly,	I can manage and use the application easily.
26	User	the application to have a secured payment,	I can be assured that my payment credential is protected.
27	User	to have a quick and efficient service,	I could use the application frequently.

INDIVIDUAL'S ROLE & RESPONSIBILITIES

Chi-Tao	<ul style="list-style-type: none">• Mock-up design• CRUD operations• Exception handling• Task distribution documentation• Individual's role and responsibilities documentation• Functional and non-functional requirements• Completed Test cases• Completed UI interface• Ensuring quality, formatting, and submission of report• Communication Facilitator
Ibrahim	<ul style="list-style-type: none">• Project Description (innovation)• Database connection (backend connection)• Project logic• Functional and non-functional requirements• Completed Test cases• Authentication (Email, SMS and/or call)• Completed UI interface• Setting up Online Repositories and team follow up.• Ensuring quality, formatting, and submission of report
Mark	<ul style="list-style-type: none">• Test cases for D1• API connection• User stories• Test• Project Aim and description for final report• Functional and non-functional requirements• Completed UI interface• Ensuring quality, formatting, and submission of report

TASKS DISTRIBUTION

CHI-TAO LI	MD IBRAHIM ULLAH	MARK BENEDICT MUYOT
User Login Unit Tests Skeleton Product Category Provider Product Provider Product List Entity Entity Cloner Auto Sized Grid View Click Select Text Box Edit Item Model Main Window View Model Setup Connection View Model Inventory View Model New User View Model Products View Model Transactions View Model Setup Connection Menu View Inventory List View Inventory List Details View Login Window Product Categories Table View Transactions Table View	Database Connection Manage Products Unit Tests Encryption Provider Transaction Provider Transaction Body List Entity Relay Command Decimal To Positive Converter List Model Assembly Info Inventory Details View Model User Transactions View Model Edit Product Category View Model Product Categories View Model Users View Model Setup Connection View List View List Details Window New User Window Products Table View Users Table View	Manage Transactions Exception Handling Unit Tests Inventory Context Users Provider Transaction Head List Entity Bindable Transaction Body List Entity Bindable Base Table Model Main Resources User Transactions Details View Model Login View Model Edit Product View Model Edit Transaction View Model New Transaction View Model Setup Connection Window Partner Transactions List View Partner Transactions List Details View Partners Table View Table View New Transaction Window

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