

# COMP 2160\_01 Mobile App Development Project Proposal Doc

**Team O**

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# Introduction

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Each individual who purchases products might not always be aware of the products expiry date. This can both cause sickness and give grocers more leniency when it comes to product expiry dates. Food products within Canada will have Expiration data within the product data. Sometimes this data is loaded within the barcode of the product which is tied to its batch number from the factory itself. In other cases, the data is displayed visible for the customer. Our application will allow the users to record this data in an organized manner and make use of existing camera technologies in place to scan the barcode of food goods and preload the expiration data into a portfolio.

## Project Description and Proposal

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This application will be developed in Java on android studios. The application will have a main menu with minimal features to start. This project is going to be considered phase one of potentially a much bigger project. The Application will have four main screens: Main Menu, Add Food Item, See Food Items, See/Manage Expired Food items. The features of these activities are self explanatory.

The main menu allows access to all activities.

Add Food Activity will allow the user to use the camera to scan a barcode to attempt to prefill the form with the food name description and expiry date. If unable to do so the user can manually enter this data. When saved the data will be uploaded to a data base with the user's specific user ID attached to it to help manage users (details of database structure to be determined).

View food activity will pull the users data that has been saved to the data base and show it in an ordered list from closest to expire to farthest from expiry date.

The view and manage expired activity will allow the user to see what food items that have been saved that have passed their expiry date ordered in the same fashion as the View Food activity.

Users of the app will be able to delete / edit entries that have been previously made (details to be worked out)

## Conclusion

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In conclusion, we propose this application to be a solution to allow users to easily manage their food purchases expiration data. This can help users build healthy habits when buying food and lowering potential food waste. If this application becomes popular it can make a greater impact on people's eating habits and food producers to properly manage goods and data on the food goods in the future.