Project Proposal

COIS-2240H: Software Design and Modelling
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General Description

Our proposed project is a fast-food kiosk system. The kiosk will be designed to be self serve, giving the user full control of completing their order. We're looking at making the software similar to that of the kiosks found at most McDonald's. We think that this offers a diverse set of challenges, while still managing to be inside the realm of familiar.

Target Audience

The target audience of a system like this would be management at a fast-food chain restaurant. McDonald's is the only notable fast-food chain to have ubiquitously deployed ordering kiosks so far. However, in order to get our product into a fast-food chain, we would need to appeal to a higher-up in management. With the limit of our scope, we believe a system that appeals to management of companies as large as those would be outside our capabilities.

Instead, we have deduced that a far better plan of action would be to approach local businesses: people who wish to start a restaurant, but don't have the budget to invest in large kiosks. This would make our approach vector much easier. Instead, we propose that our software be offered to people, potentially as an app, for use on cheap tablets, as well as larger kiosks. This would make it much easier for customers with lower budgets to gain access to an automated system.

Proposed Functionality Details

For this project to be a success, we will need to include a number of technologies.

Most notably, we will need to make use of a user interface with JavaFX. This interface will need to be built to primarily support touch interaction, rather than mouse and keyboard. We will also need to implement a database system. We will require multiple tables, as there are many things the kiosk must keep track of;

- List of food options/product;
    - Additional options (such as "Add Pickles"),
    - Price;
- List of currently active coupons;

    - Expiry dates,
    - Affected products;
- Current Special Promotions;
    - Durations;
- And more.

This will require the implementation of a SQL database (most likely SQLite, as we are covering it in this course).

Group Contract

Name	Part	Contribution Weight	Signature
Matthew Brown	• Help with writing UML Class Diagram • Create one other UML Diagram (TBD) • Help with Java / JavaFX code • Help with implementation of SQLite database • Create & manage GitHub repository • UI design • Write description of software aimed at target industry, for final report • Write high level overview of software, for final report • Help with writing project retrospective	(33+⅓)%	
Seth Hannah	• Help with writing UML Class Diagram • Create one other UML Diagram (TBD) • Help with Java / JavaFX code • Help with implementation of SQLite database • Create PDF containing screenshots of git logs • Test all potential paths in the software, and create	(33+⅓)%	

	PDF containing screenshots of testing ● Format / compile final report, ensure it meets length requirements ● Help with writing project retrospective		
Melissa Van Bussel	● Help with writing UML Class Diagram ● Create one other UML Diagram (TBD) ● Help with Java / JavaFX code ● Help with implementation of SQLite database ● Create database diagrams (such as ER) ● Ensure database is properly normalized ● Create documentation file which describes method functionality and usage ● Help with writing project retrospective	(33+⅓)%