1. Introduction

Whenever anyone wants to buy something they ask a very important question, Can I find this somewhere else for cheaper? With our app we hope to find an answer to that question with no hassle. With basic data we hope to be able to find and compare a product between different stores and output which has the cheaper product.

1. Problem

The problem we want to address is one of the everyday consumer. No matter what product a consumer wants, they ultimately want the best deal they can get. We want to be able to find out which stores have deals on a certain product and have the consumer be able to purchase the item directly from the app. Finding the cheapest price between different stores and ordering the products in one app can help save time and energy for consumers.

1. Scope/Functionality

There are 3 major parts to this project.

1. Being able to search a store and find a product
2. Being able to compare between 2 products
3. Being able to order directly from the app itself

The ability of searching for a product will be done by either checking the item number or a substring of the item. For example, if a customer wanted to search for a specific type of milk we can do **SELECT** *product\_name* **FROM** *stores* ***LIKE*** *‘%milk%’;* Doing that command we can find any product with milk in the name such as, almond milk, condensed milk, milk tea, etc.

Comparing 2 store’s products is a bigger task. Firstly, we are going to have a foreign key for all the stores to carry the same product ID so we can compare the same exact product. Next we have to be able to get the product price between both stores and display both prices on the screen. Properly setting up a store table and product table are key in getting this part of the project to work flawlessly.

Problem statement: a 2-4-page document with the definition of the real-world problem, providing contextualization, scope of the system, and listing all expected information and functionality.