Faculty of Engineering & Applied Science

SOFE 3650U
Software Design & Architecture

Project Proposal:
Smartshop

Group#: 8

Due Date: October 18th, 2021

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Proposal:

Our final project is going to be based on a previous software project where we implemented a grocery shopping application called Smartshop. Smartshop was made with the goal to give customers a more convenient and easier shopping experience during COVID-19.

Functional Requirements:
- Notifications: Smartshop should notify when their grocery is on the way and when their grocery gets delivered to their address
- Payments: The customer should be able to pay with discount codes and credit/debit cards
- Customers should be able to search up grocery products
- Location identification: Once customer enters their address, SmartShop should be able to list local grocery stores near their location
- Customers should be able to choose which store they would like to shop from
- Customer should be able to create an account with SmartShop
- Customers should be able to save products in their shopping cart for a later purchase
- Customers should be able to choose date and time of when they would like their grocery to be delivered
- Customer should be able to contact customer service for any support

Non-functional Requirements:
- Smartshop should be secure enough as there will sensitive information across multiple users
- Smartshop should be able to serve quite a few number of customers without crashing or having any problems
- Users should be able to access previous orders so repurchasing is easy
- Performance: Once the customer enters their address, the system should be able to show local grocery stores within 3-5 seconds of input
- The convenience and readability of the system should be user friendly
- The usability of SmartShop should be user friendly allowing ease of access
- The data integrity of SmartShop ensures that the data being used is encrypted and safe
- The security of the app ensures that the users data is always protected and that it cannot be accessed by a third party without permission from the user
- Grocery order confirmation must be sent within less than a minute of payment to customer's email