Vanier College

Final Report

DJC Online Grocery

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Application Development

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Project Aim and Description

DJC is an online grocery store. User and admin are the two types of user roles available. The first-time user can create a new account, and their account information will be saved for subsequent logins. Admin can create a new category and product, and seller can buy on our online store and change their account information. The application has music playing in the background at all times. In the control centre, the user can manage it. Additionally, we have a location feature that uses Google Maps to track the target grocery store.

Functional and Non-Functional Requirement

Functional Features:

1. Login and Logout
2. Registration
3. Open another activity when user logs in
4. Add product to cart
5. Firebase Connection
6. Add new category
7. Add new product
8. Location
9. Menu
10. Listing categories (using recycler view)
11. Change username
12. Reset password
13. Display contents of cart (using recycler view)
14. Delivery and pick up option
15. Date picker and Time picker for delivery option
16. Order confirmation
17. Background Music: user can manage it in control center

Non-Functional Features:

1. Removing from cart

2. Get total price from the firebase

User Stories and Test Cases

As a	I want to	So that	Test criteria
A user	Register an account	I can have an account to login	Check if the record has been saved in firebase
A user	Login	I can access the application	Input invalid user info will get a toast message. Enter the correct info will redirect to categories interface.
A user	Add product to cart	I can purchase products from grocery store	Click on the image of the product you want to buy. It will show up in the shopping cart. Qty will be updated if on click multiple times
A user	Choose the delivery method (pick up or delivery)	I can receive the products that I ordered	Check if the selected date and time is showed in the text view
A user	View my account	I can see my username, and directed to modify account info interface	Check if it shows the correct username
A user	Modify username and/or password	Alter to a new username and password	If the change was applied successfully, you should get a toast message and asked to login again
A user	Control background music	I can stop and play the music anytime I want	The music should stop if you press on the mute icon and replay when you click on the sound icon.

A user	Track any grocery store	I can see the distance from my current location	Check if google maps is opened in the browser.
A user	Logout	I can keep my account security	Session end. It should be redirect to main page of our application.
An admin	Login	I can add new category and new product	Check if it is direct to the admin home page
An admin	Control background music	I can stop and play the music anytime we want	The music should stop if you press on the mute icon and replay when you click on the sound icon.
An admin	Add new category	The user can shop with a wider range of products.	Check if it is added in the recycler view
An admin	Add new product	The grocery store offers a variety of products for customers to choose from.	Check if it is added in firebase database or login as a user to see if the product is added

Individual's role and responsibility

We were working on the tasks together at school for most of the time. For individual role and responsibility, Jiamin is mainly in charge of front-end user interfaces design, and some of the backend. Dinal and Justin are mainly in charge of back-end, such as view categories, shop products, shopping cart, etc.