Cuisine Royal

Project for SEG2105[B]

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Introduction:

As part of SEG2105, we developed an app titled Cuisine Royal. The goal of this app was to become familiar with the development process, work with an IDE such as android studios, and manage a database such as Firebase. The team developed an app to connect clients with cooks for a meal delivery service. The application development process was divided into four deliverables or sprints. The details of this breakdown are shown in Table 1.

The app has three different types of accounts. The first account is the admin account which handles the management of cooks and the management of the complaint system. The second type of account is the cook account. After signing up, a cook creates meals and adds them to a menu for viewing by clients. This makes the last of the three account types the client account. The client creates an account and logs in to the app the same way as the other two accounts. After, the client can search for meals and purchase meals from the cooks.

In addition to the basic function of the app, the system uses additional classes and utilities to make the operations easier. First, the information for cooks and clients is stored on firebase. The next feature is part of the complaints system. A cook can be temporarily or permanently suspended based on the severity of the complaint. The last feature is a rating system for the cooks. Clients can rate their interactions with the cooks so that other clients know which cooks are the preferred cooks.
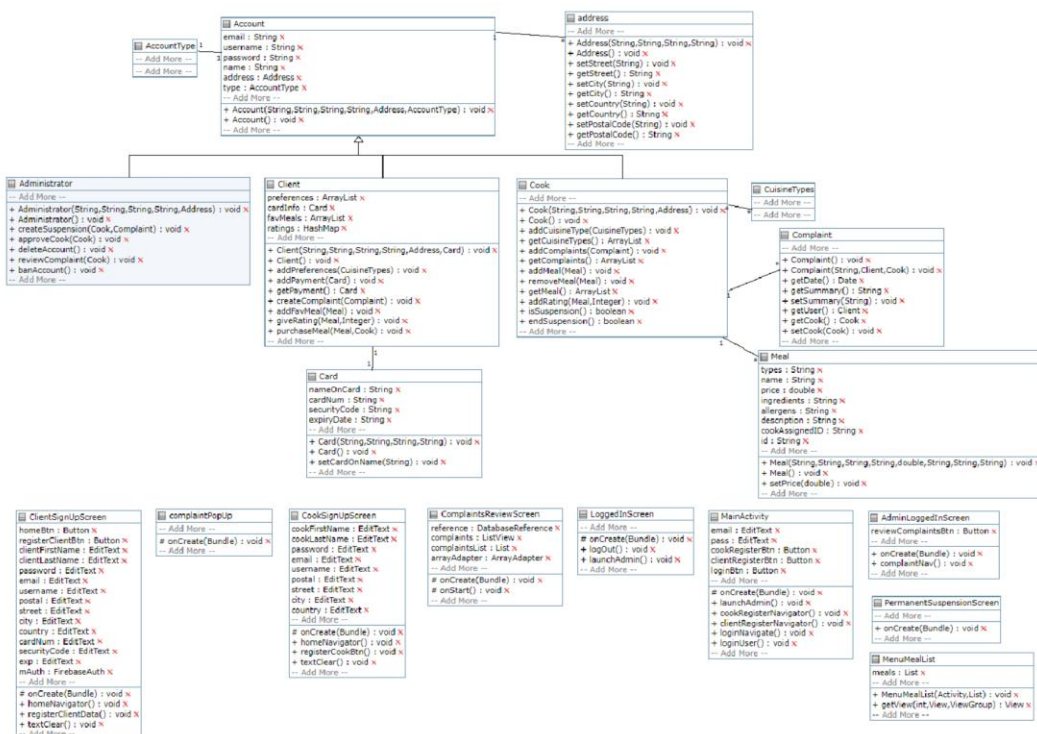
UML:

Figure 1: project UML Diagram

The above UML, built using Umple, along with the source code for the application, can be found on GitHub: https://github.com/Jastes33/SEG2105_ProjectGroup4. The upper part of the UML shows all the basic classes and how they interact with each other. The lower part of the UML is the classes that contain the functionality for the screens and dialog boxes.

Throughout the project, each member completed specific tasks to achieve the goals of each deliverable. This process has been broken down for ease of reading and is detailed below.

Table 1. Deliverables table:

	Deliverable 1	Deliverable 2	Deliverable 3	Deliverable 4
Jad Bader	-Fire base initial set up -admin login initial setups	-linking the UI with the classes	- Linking the new features of the UI with the classes	- Linking the new features of the UI with the background
Gurjot Grewal	-Implementations of user accounts	-linked class to the UI for the complaints - finished firebase set up	-Implemented the meal system for the cook class	-Created a search for a meal -set up purchasing system.
Tal Musienko	-UI design -implementation of some functionallity	- further developed the UI -set up test cases	- further developed the UI -setup test cases	- further developed the UI -setup test cases
Alexander Wilson	- Created a git hub repository for the app - Created the UML class diagram for the domain model	- updated the UML class diagram - created a complaint class.	- updated the UML class diagram - updated the meal class adding new featured needed to work with the meal class	- updated the UML class diagram. - drafted the final report

With the app there are 33 different screens. Some of the screens are viewable by all users, such as the main log in, and some screens are only visible to a specific account type. Screen shots for the app are detailed below.

Figure 2

Main menu

Figure 3

Cook logged in screen

Figure 4

Admin logged in screen

Figure 5

Logged in screen

Figure 6

Chef sign up screen

Figure 7

Sign up screen.

placeholder's Profile

Rating: x/5

Introduction:

Address:
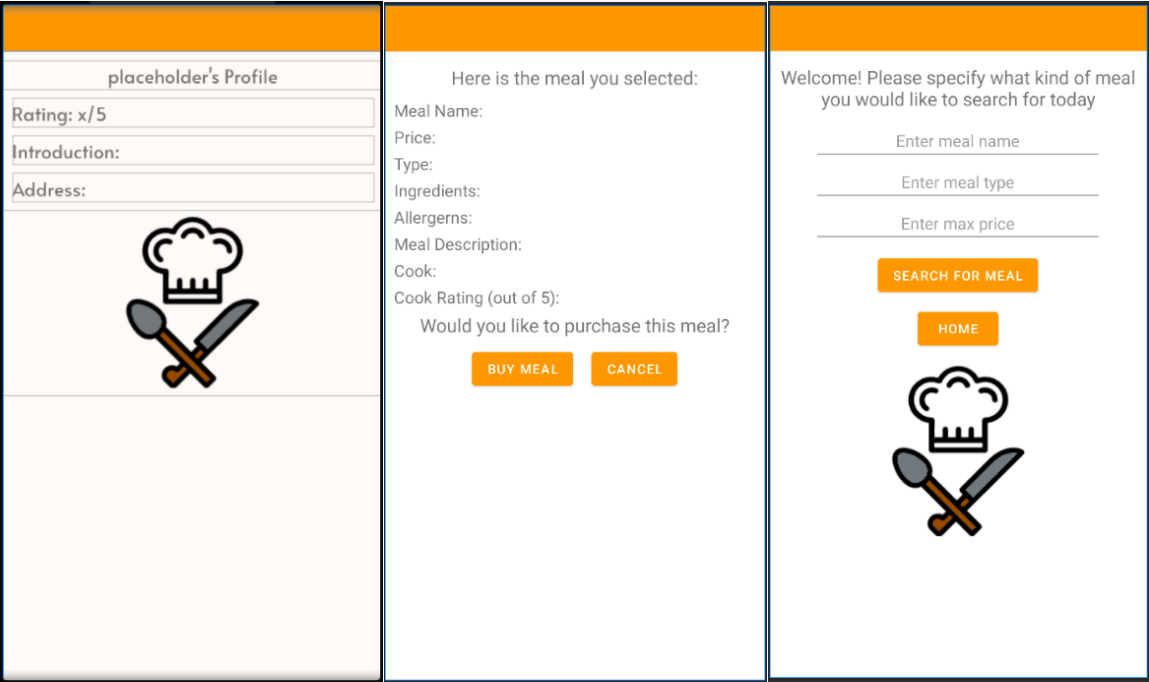
Figure 8

Cook profile screen

Here is the meal you selected:

Meal Name:

Price:

Type:

Ingredients:

Allergerns:

Meal Description:

Cook:

Cook Rating (out of 5):

Would you like to purchase this meal?

BUY MEAL   CANCEL

Figure 9

Meal preview

Welcome! Please specify what kind of meal
you would like to search for today

Enter meal name

Enter meal type

Enter max price

SEARCH FOR MEAL

HOME

Figure 10

Meal search parameter

Here are the meals that we found with the
entered information!

GO BACK
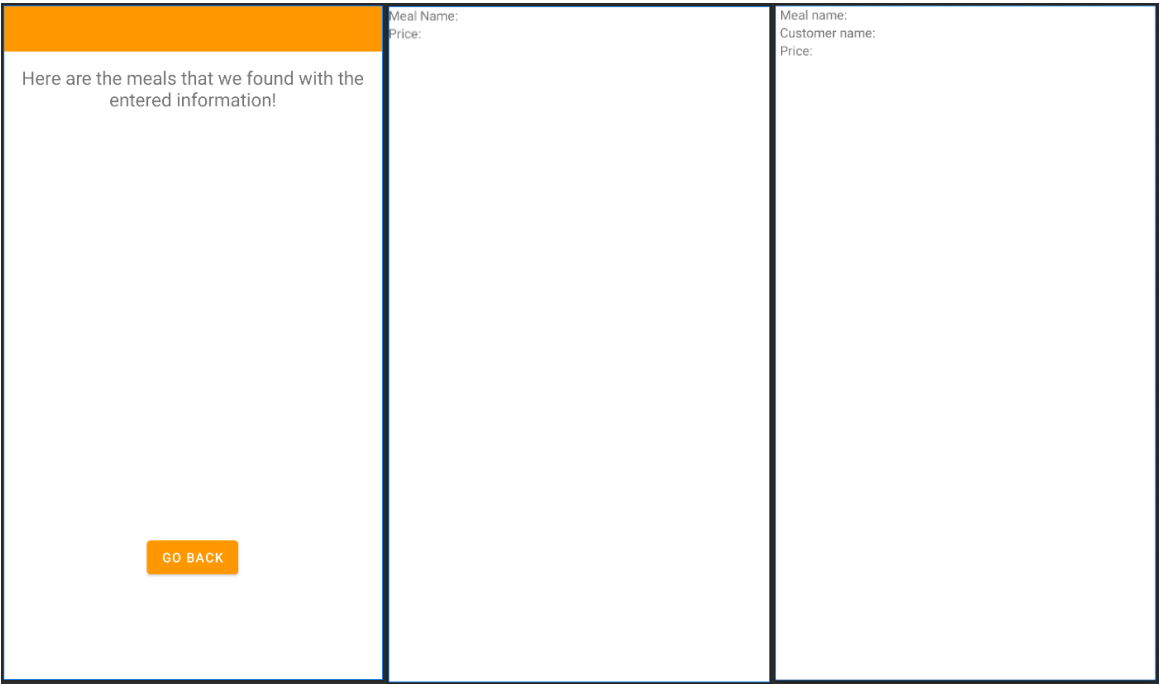
Figure 11

Meal search results

Meal Name:
Price:

Figure 12

Menu meal list

Meal name:
Customer name:
Price:

Figure 13

Pending orders format cook

Here are the purchases that are currently pending:

What would you like to do with your meal list?

HOME

What would you like to do with your menu?

ADD ITEM

HOME
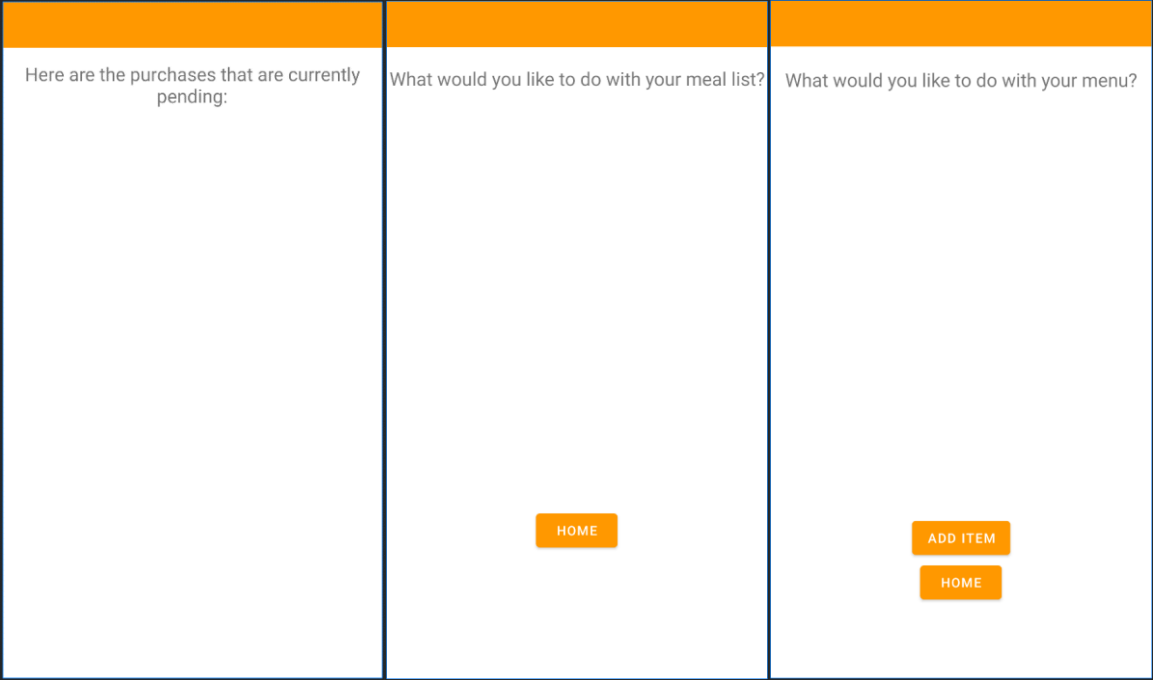
Figure 14

Pending purchases cook

Figure 15

Cook modify meal list

Figure 16

Cook modify menu

Meal name:
Cook name:
Price:
Status:
Date purchased:

Here is the order you selected:

Meal Name:

Price:

Cook:

Cook rating:

Purchase status:

What would you like to do?

RATE COOK   REPORT COOK   CANCEL

Thank you for purchasing this meal!
Please check back in the recent orders
page once the cook has approved or
declined your order!

GO BACK TO HOME PAGE

Figure 17

Previous orders format customer

Figure 18

Previous order item preview

Figure 19

Purchase in progress dialog

Here are the details of the purchase request:

Client:

Meal Name:

Price:

Order ID:

Would you like to accept this purchase?

ACCEPT   REFUSE
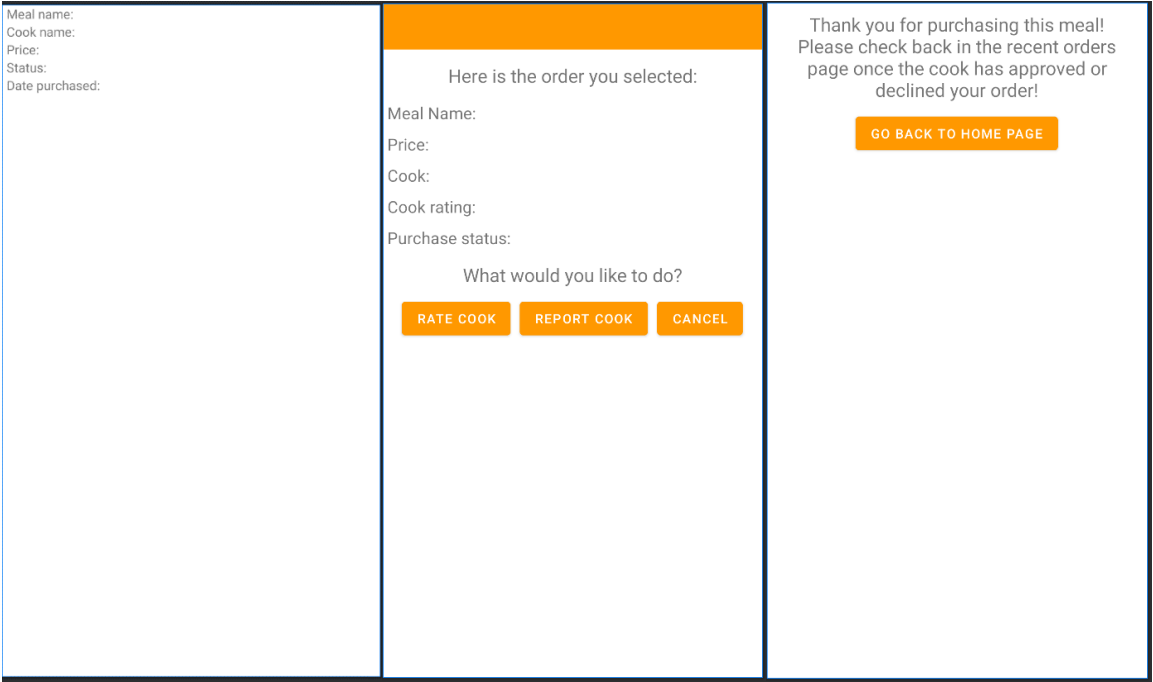
Meal Name:
Order ID:
Status:

What would you like to rate the cook out of 5?

Enter a number from 0-5

SUBMIT RATING   CANCEL

Figure 20

Purchase request dialog

Figure 21

Purchase list

Figure 22

Rate cook screen

Would you like to remove this item?

YES   NO

What would you like to do with this meal?

ADD MEAL TO OFFERED MEAL LIST

REMOVE MEAL

CANCEL

Cook name:
Rating: x/5
Description:

Figure 23

Remove meal list item dialog

Figure 24

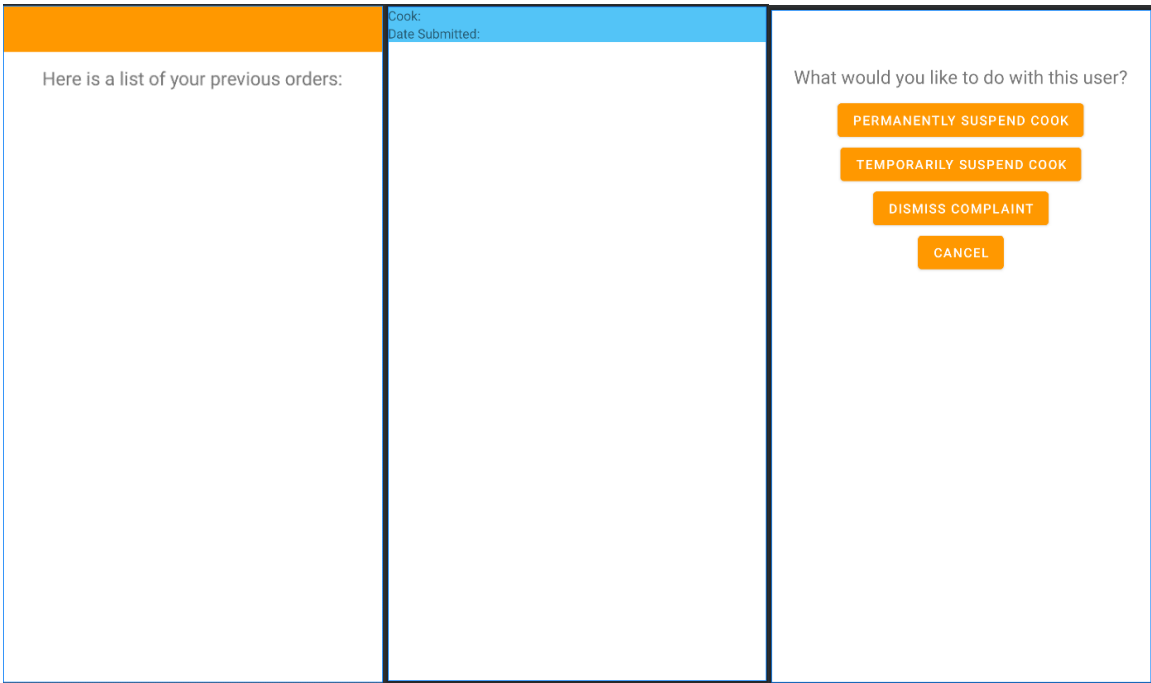Remove menu item dialog

Figure 25

Cook profile list formatting

Here is a list of your previous orders:

Cook:
Date Submitted:

What would you like to do with this user?

PERMANENTLY SUSPEND COOK

TEMPORARILY SUSPEND COOK

DISMISS COMPLAINT

CANCEL

Figure 26

Customer previous order

Figure 27

Complaint List

Figure 28

Complaint pop up

Welcome to the complaints screen! Here is a list of all available complaints:

Please enter the details of the complaint here:

Enter the complaint here

SUBMIT COMPLAINT   CANCEL

Oh oh! It looks like your account has been permenantly suspended for violating our terms of service! Do not hesitate to contact us for further information
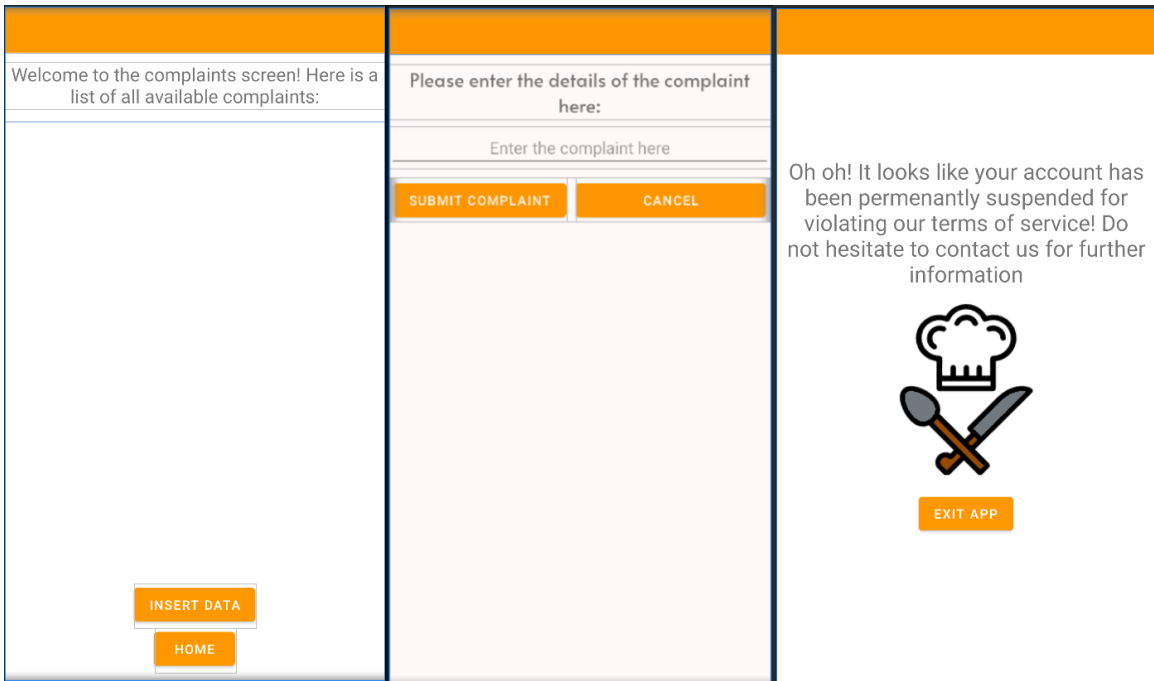
EXIT APP

INSERT DATA

HOME

Figure 29

Complaints review screen

Figure 30

Complaint about cook screen

Figure 31

Permanent suspension

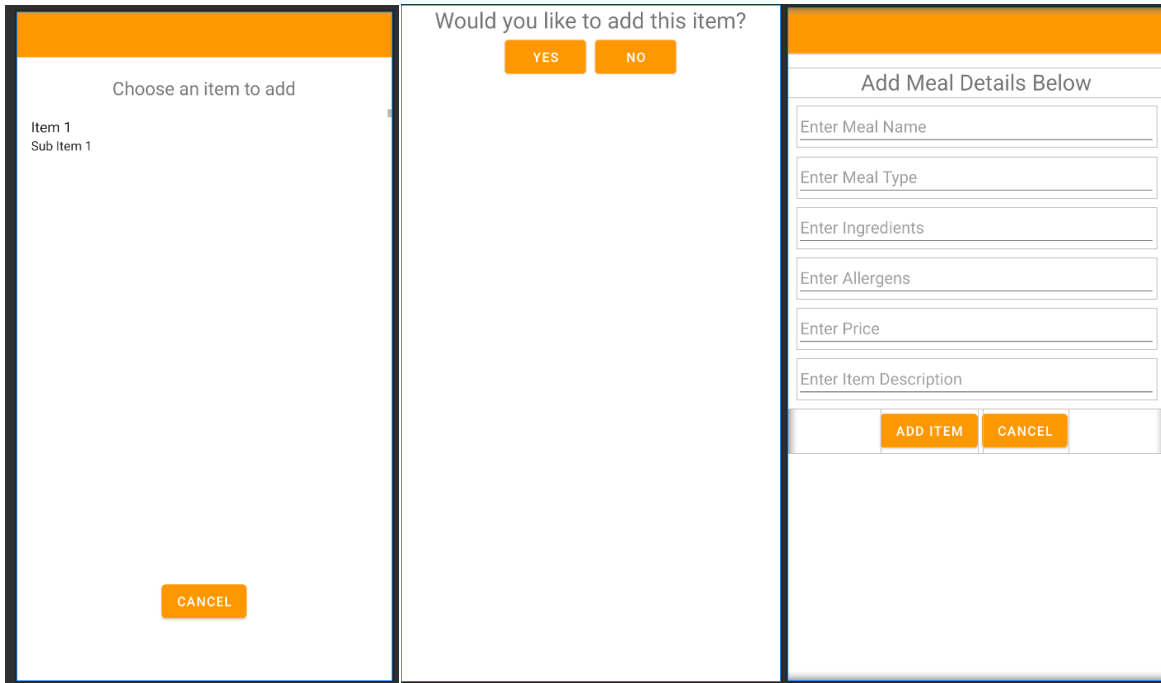| Figure 32	Figure 33	Figure 34
Add meal list	add Meal List Item Dialog	Add menu Item

Lessons learned:

        Throughout the project, we encountered several problems. During the first deliverable, we had an issue with the app scaling depending on what emulator model was being used. This was solved by reviewing the page layouts and making adjustments. One of the other issues that we had was when setting up the complaint system. We looked at different options on how to implement it to make it easily accessible across the different account types as well as make it easy to store on firebase. A positive lesson from the project what the use of git hub and the use of discord. Both of these systems allowed for great communication throughout the team.

Conclusion:

        During this project, many concepts learned in the labs, tutorials, and lectures were applied. The labs demonstrated how to use a database effectively and how to use the basic functionality of android studios. As part of the tutorial, GitHub was introduced as an effective concept for working remotely as a team. Lastly in the lectures concepts such as design principles and workflow methods helped to keep our group organized and on track. Overall, this project is a great way to get involved and better understand concepts that our team will use later in life.