

SEG 2105 Project  
Final Report  
Presented to Professor Wassim El Ahmar

Project Group 26

Frederick Andrews (300247972)

Matthew Simpson 7288552

Abdullah Bakkour 300218385

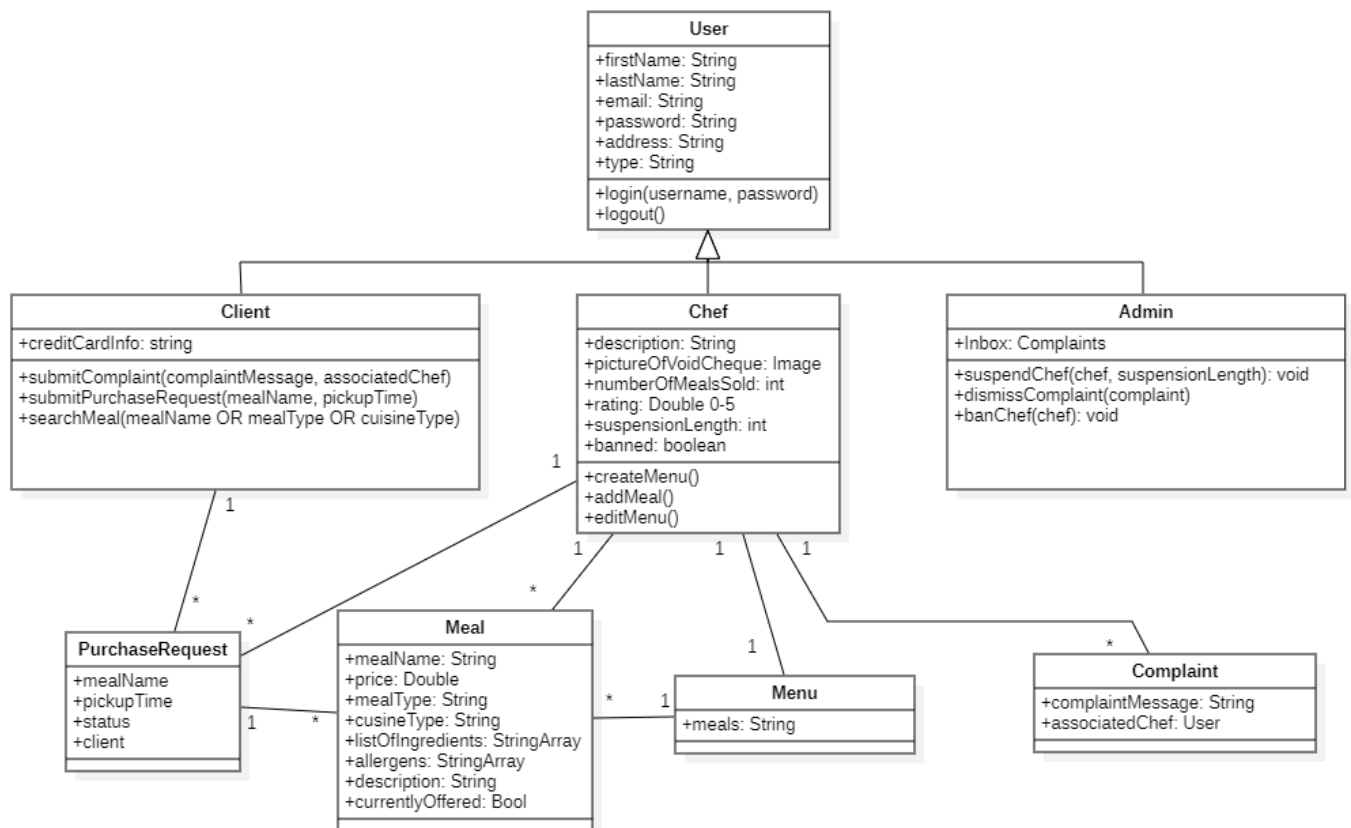
Justing Tapuc 300033727

December 7th, 2022

## Introduction:

In this project we worked on an Android application called Mealer that was built based on client given instructions and the provided grading scheme. As a team we had to read and understand these instructions, divide the work fairly amongst ourselves and develop the app. The project was divided into a series of sprints in which we designed specific user features one by one. We began by building the apps login, followed by administrative features. After that we designed the features for chef users and finally, we developed the features for clients.

## Updated UML Diagram:

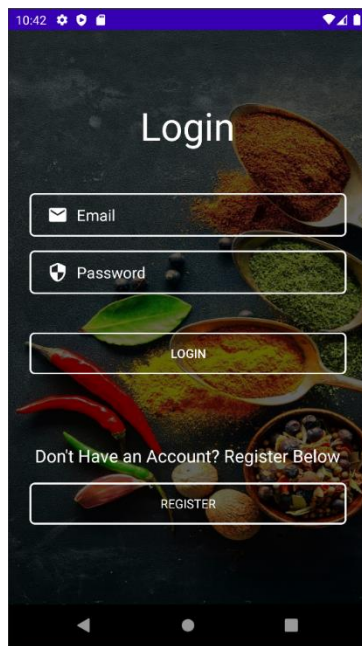


### Contributions of Team Members for Each Deliverable:

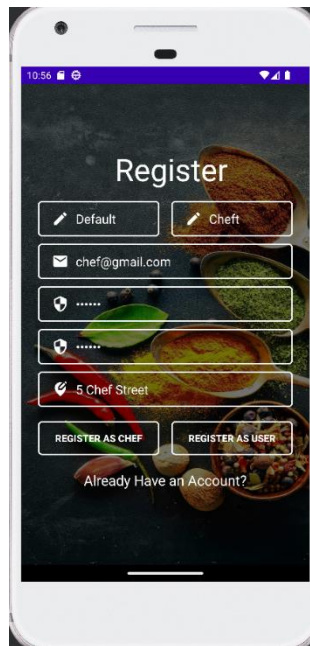
	Deliverable 1	Deliverable 2	Deliverable 3	Deliverable 4
<b>Frederick</b>	<ul style="list-style-type: none"> <li>- Created UI for login and register.</li> <li>- Added text field validations for register.</li> </ul>	<ul style="list-style-type: none"> <li>- Created UI for all admin features.</li> <li>- Added the ability to save chef description, void cheque, and client credit card information to database.</li> </ul>	<ul style="list-style-type: none"> <li>- Created UI for all chef features.</li> </ul>	<ul style="list-style-type: none"> <li>- Created UI for all user features.</li> <li>- Added to UI for chef to meet needs of deliverable.</li> <li>- Wrote final report.</li> <li>- Developed search for client.</li> </ul>
<b>Matthew</b>	<ul style="list-style-type: none"> <li>- Created UML diagram.</li> </ul>	<ul style="list-style-type: none"> <li>- Updated UML diagram.</li> <li>- Improved Code clarity</li> <li>- Improved chef class to allow for more features.</li> </ul>	<ul style="list-style-type: none"> <li>- Updated UML diagram</li> <li>- Created PowerPoint for presentation.</li> </ul>	<ul style="list-style-type: none"> <li>- Updated UML diagram</li> </ul>
<b>Justin</b>	<ul style="list-style-type: none"> <li>- Set up Firebase authentication.</li> <li>- Set up Firebase Realtime database to store user information.</li> </ul>	<ul style="list-style-type: none"> <li>- Implemented complaint system in database.</li> <li>- Allowed admin to action complaints.</li> </ul>	<ul style="list-style-type: none"> <li>- Implemented menu in database.</li> </ul>	<ul style="list-style-type: none"> <li>- J-Unit Tests</li> <li>- Complaint system on client side.</li> </ul>
<b>Abdullah</b>	<ul style="list-style-type: none"> <li>- Helped implement Firebase Realtime database.</li> </ul>	<ul style="list-style-type: none"> <li>- Helped implemented complaint system in database.</li> </ul>	<ul style="list-style-type: none"> <li>- Implemented meal list in database.</li> </ul>	<ul style="list-style-type: none"> <li>- J-Unit Tests</li> <li>- Helped with UML diagram.</li> </ul>

## Screenshots from app:

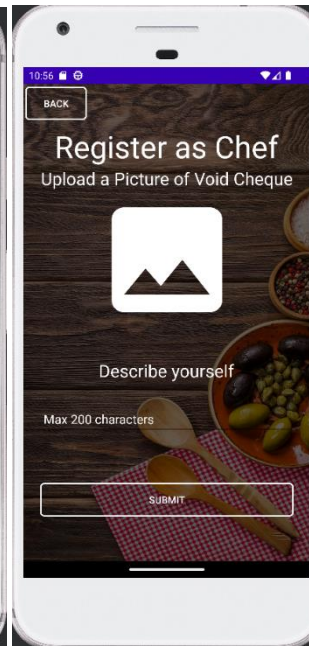
### Deliverable 1:



Login Page



Register Page



Register as Chef

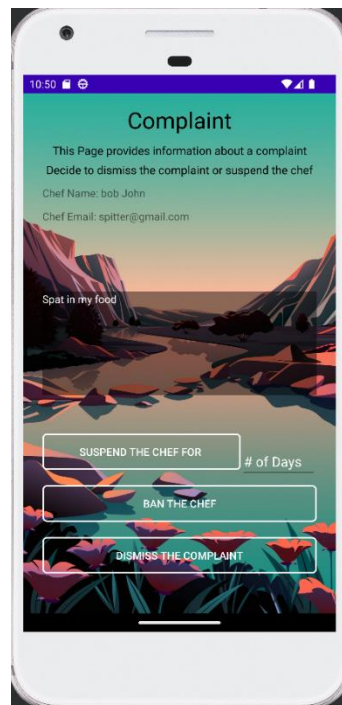


Register as Client

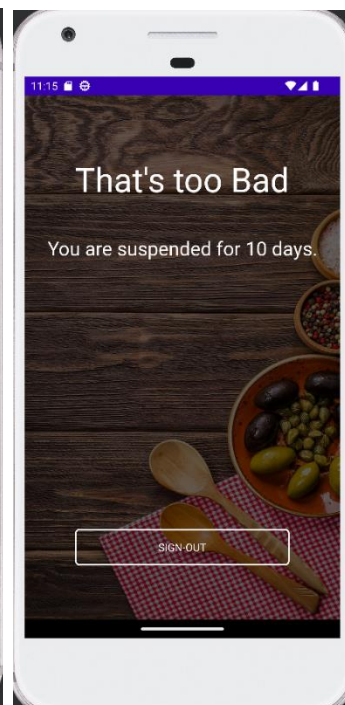
### Deliverable 2:



Admin Homepage

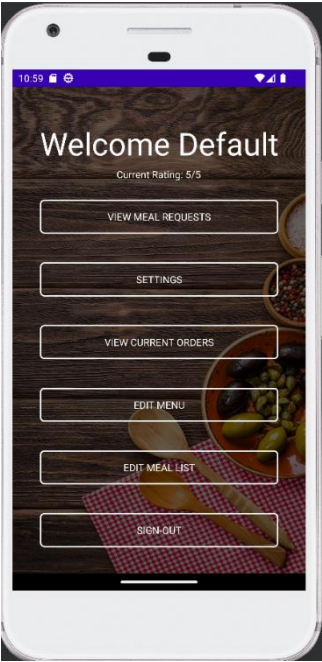


Handle Complaint

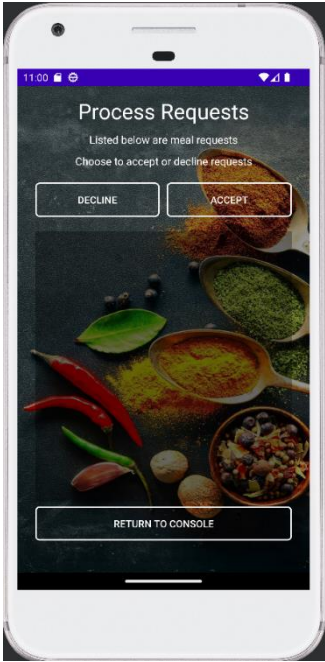


Suspended Chef Screen

Deliverable 3:



Chef Homepage



View Meal Requests



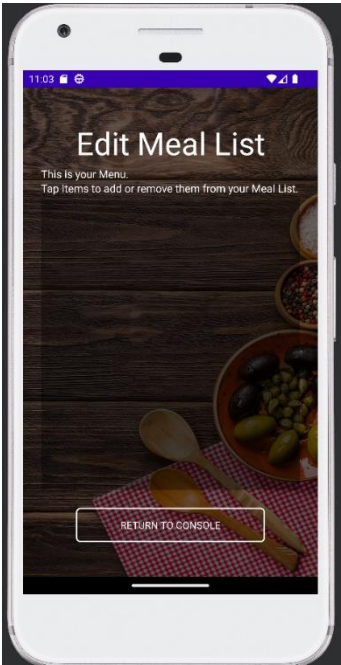
View Current Orders



Edit Menu



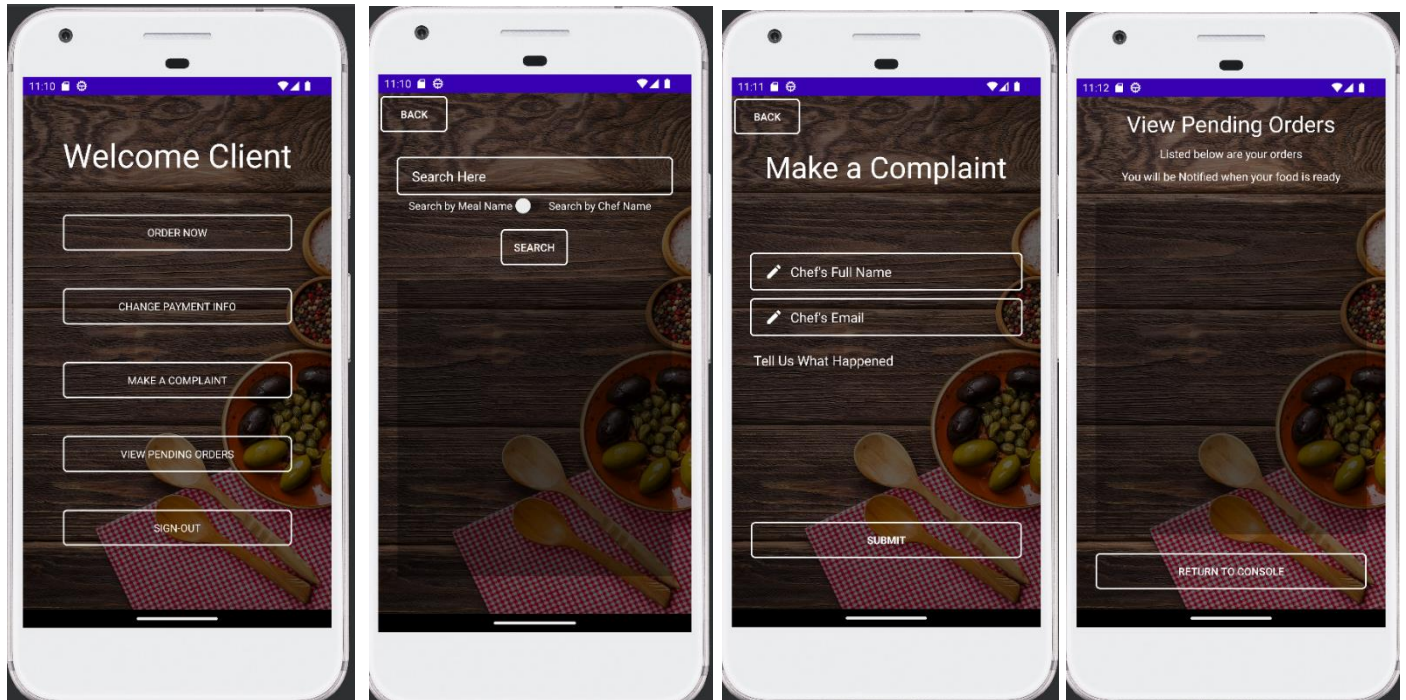
Add Menu Item



Edit Meal List



## Deliverable 4:



Client Homepage

Search for meal

Make a complaint

View Order Status

### Lessons Learned:

Through the design and development of this app we were able to acquire a large new set of skills and learn more about the realities of software engineering. For many group members this was our first time developing an app and this class was our introduction to android studio. Because of this there was a steep learning curb which in the end benefited us since we now know how to use android studio. We also chose to use firebase and not SQL therefore we learned a lot about Firebase.

Outside of the technical lessons learned we also learned more fundamental ideas about software engineering. Often, we left our work to the last minute and expected other team members to start before us. This led to stressful situations where we were working last minute. In the future we would avoid such circumstances but communicating with each other more clearly and starting our work sooner.