# SEG 2105 – Introduction to Software engineering

## ANDROID PROJECT - FINAL REPORT

UNIVERSITY OF OTTAWA

Group 28
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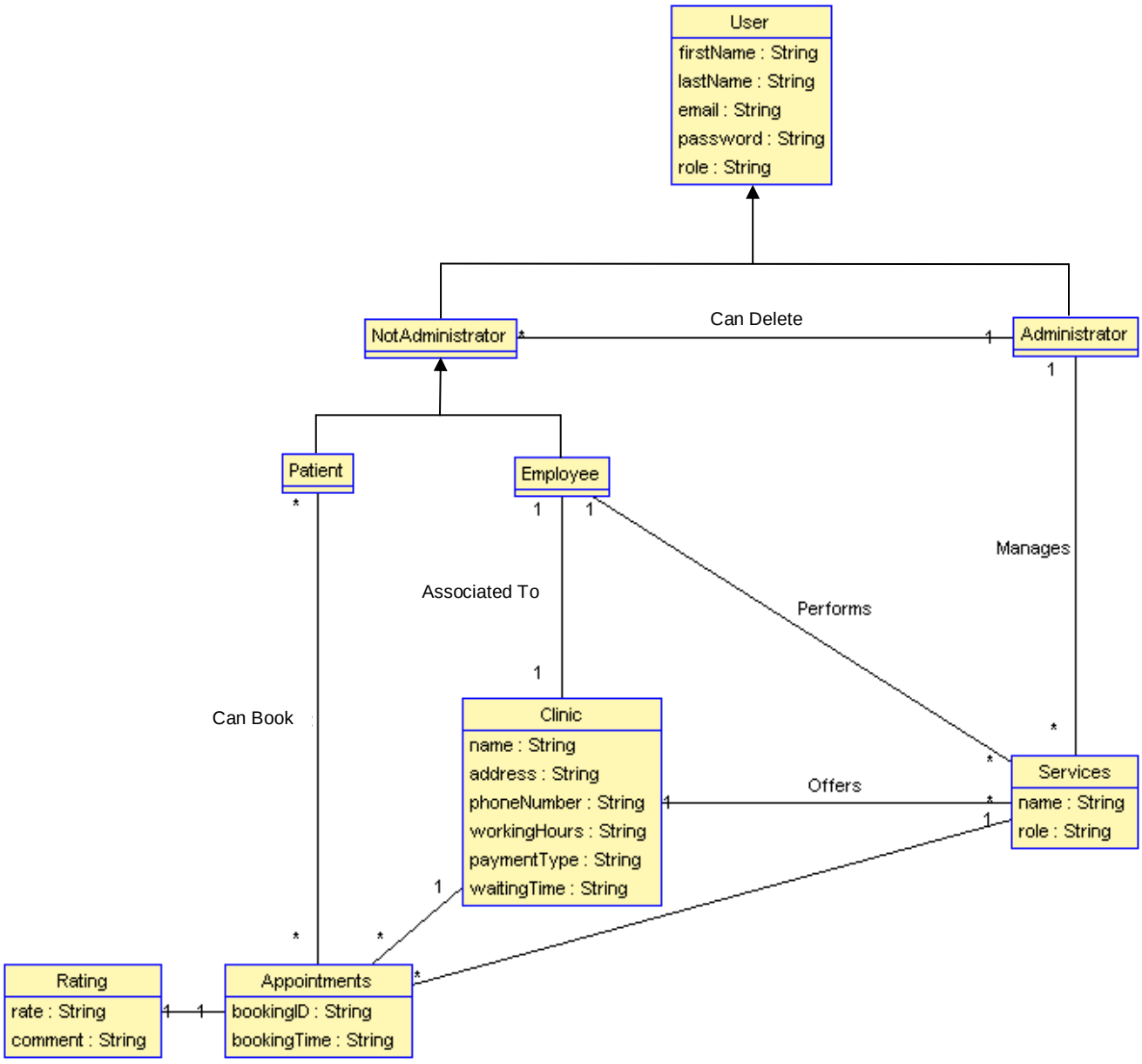
# A. Introduction

The objective of this project was to implement an android application that addresses the need for people to know waiting times at nearby walk-in clinics without having to leave their home. Additionally, the application would allow users to know the services offered by nearby walk-in clinics and allow them to check-in/book appointments at the clinic of their choice.

The main purpose of the project was to allow students to expand the theoretical knowledge learned in class and apply it in this real-life situation. The application was developed using the Android Studio development environment and it allowed students to improve their knowledge on using GitHub plus working and communicate within groups in order to meet each deliverable objective and solve development issues encountered through the implementation of the application.

## B. UML class diagram

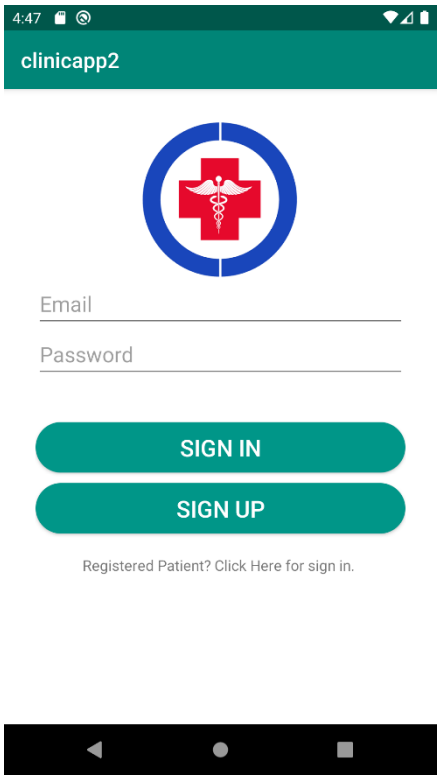


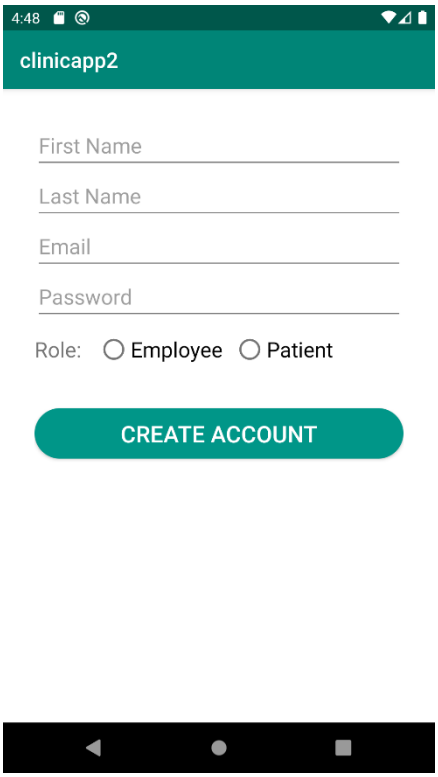
## C. Team Roles and Contribution

| Deliverable | Team Member | Contribution |
|---|---|---|
| **1** | John Ambali | - Created the Github repository and committed<br>- Implemented the functionalities of the app<br>- Implemented firebase database<br>- Submitted the APK |
| | Samir Timi Kaoura | - Created the UML Class Diagram<br>- Committed to Github |
| | | |
| **2** | John Ambali | - Implemented the additional functionalities of the app<br>- Implemented the unit test cases<br>- Committed to Github<br>- Submitted the APK |
| | Samir Timi Kaoura | - Drafted unit test cases and application functionalities<br>- Updated UML Class Diagram<br>- Committed to Github |
| | | |
| **3** | John Ambali | - Implemented the additional functionalities of the app<br>- Implemented the unit test cases<br>- Committed to Github |
| | Samir Timi Kaoura | - Updated UML Class Diagram<br>- Committed to Github<br>- Submitted the APK |
| | | |
| **4** | John Ambali | - Implemented the final functionalities of the app<br>- Implemented the unit test cases<br>- Committed to Github<br>- Submitted the APK |
| | Samir Timi Kaoura | - Updated UML Class Diagram<br>- Final Report<br>- Committed to Github |

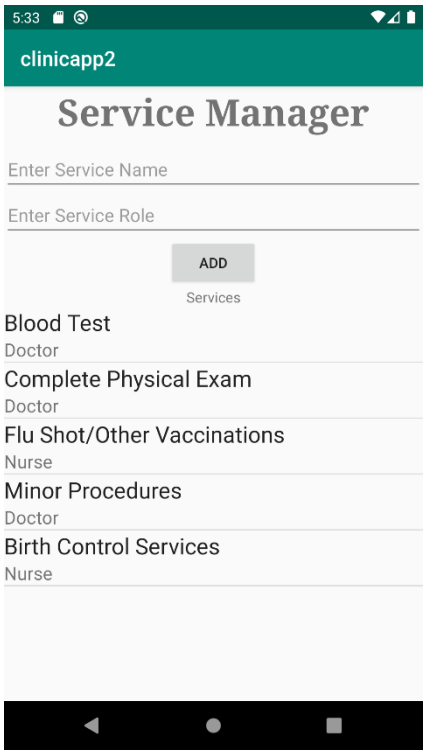
# D. App Screenshots

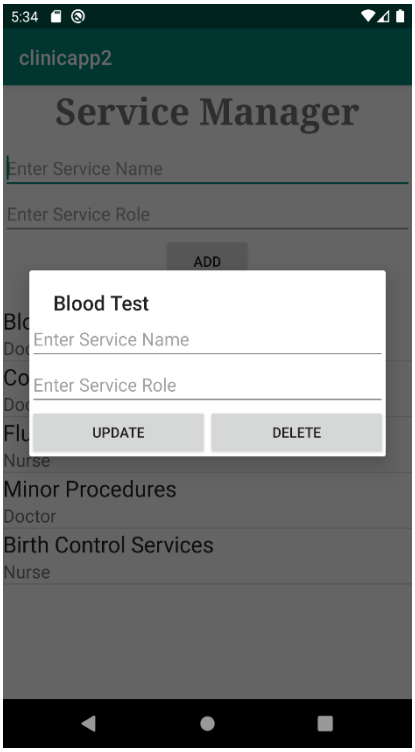
Log In & Sign Up



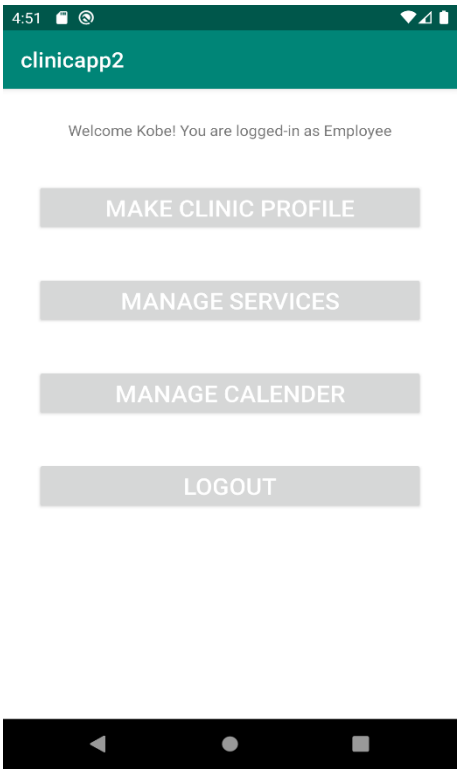



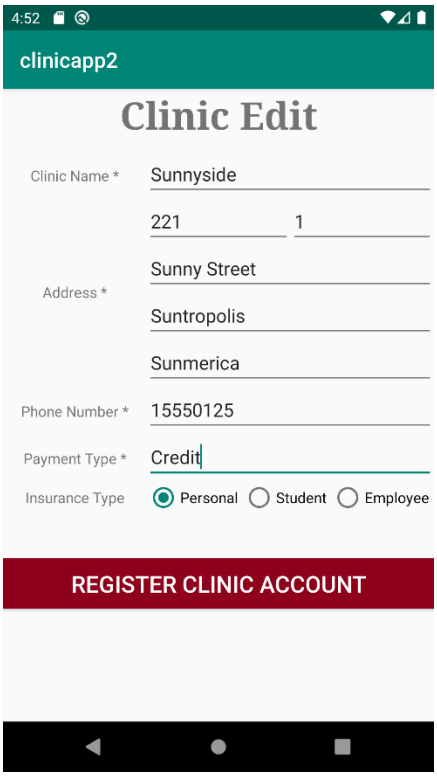
Administrator

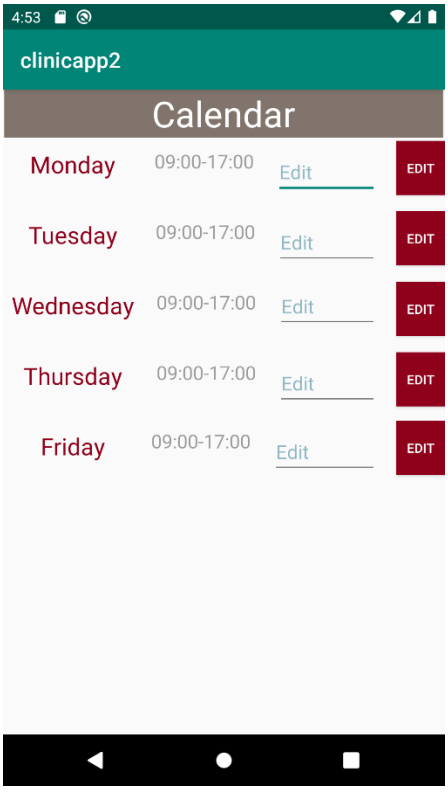



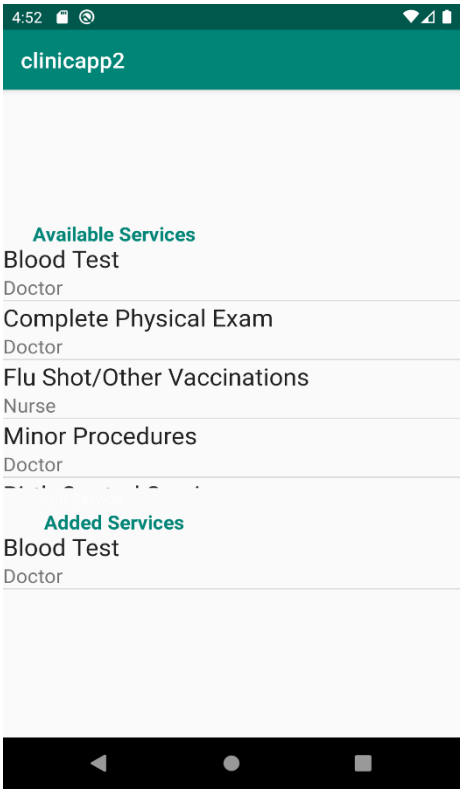



Employee

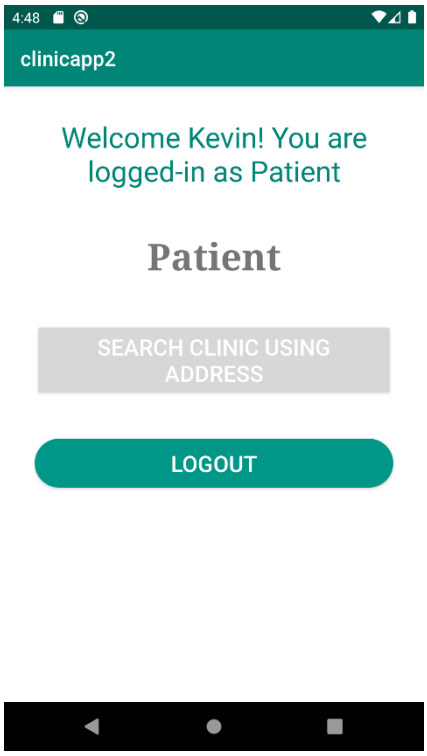

4:51
clinicapp2
Welcome Kobe! You are logged-in as Employee
MAKE CLINIC PROFILE
MANAGE SERVICES
MANAGE CALENDER
LOGOUT

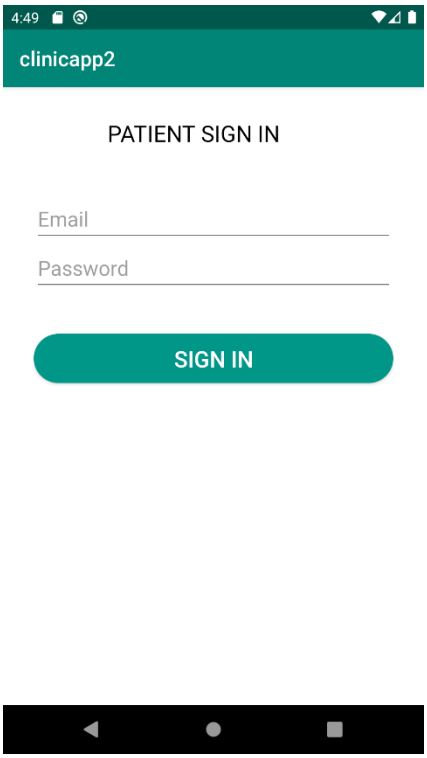

4:52
clinicapp2
Clinic Edit
Clinic Name *
Sunnyside
221
1
Address *
Sunny Street
Suntropolis
Sunmerica
Phone Number *
15550125
Payment Type *
Credit
Insurance Type
Personal
Student
Employee
REGISTER CLINIC ACCOUNT


4:53
clinicapp2
Calendar
Monday 09:00-17:00 Edit EDIT
Tuesday 09:00-17:00 Edit EDIT
Wednesday 09:00-17:00 Edit EDIT
Thursday 09:00-17:00 Edit EDIT
Friday 09:00-17:00 Edit EDIT


4:52
clinicapp2
Available Services
Blood Test
Doctor
Complete Physical Exam
Doctor
Flu Shot/Other Vaccinations
Nurse
Minor Procedures
Doctor
Added Services
Blood Test
Doctor

Patient


4:48
clinicapp2
Welcome Kevin! You are logged-in as Patient
Patient
SEARCH CLINIC USING ADDRESS
LOGOUT


4:49
clinicapp2
PATIENT SIGN IN
Email
Password
SIGN IN

## E. Conclusion and Lessons Learned

When starting the project, this group had almost no knowledge on how to use Android Studio and GitHub. Through the completion on the application deliverable after deliverable, students gained an understanding of the fundamentals of android applications development and version control.

The main objective of the project was to apply the theoretical knowledge learned in class to the given case. Skills learned through the course such as the creation of UML diagrams, design process, version control, the firebase database, unit testing, account systems ended up being used to achieve the project. Unfortunately, time management is a skill this group needs to improve on. Because of time constraint the patient activity was not totally implemented and is still missing some features. This project will be useful for future personal references thus the group will come back to it after the final exams period in order to complete it.