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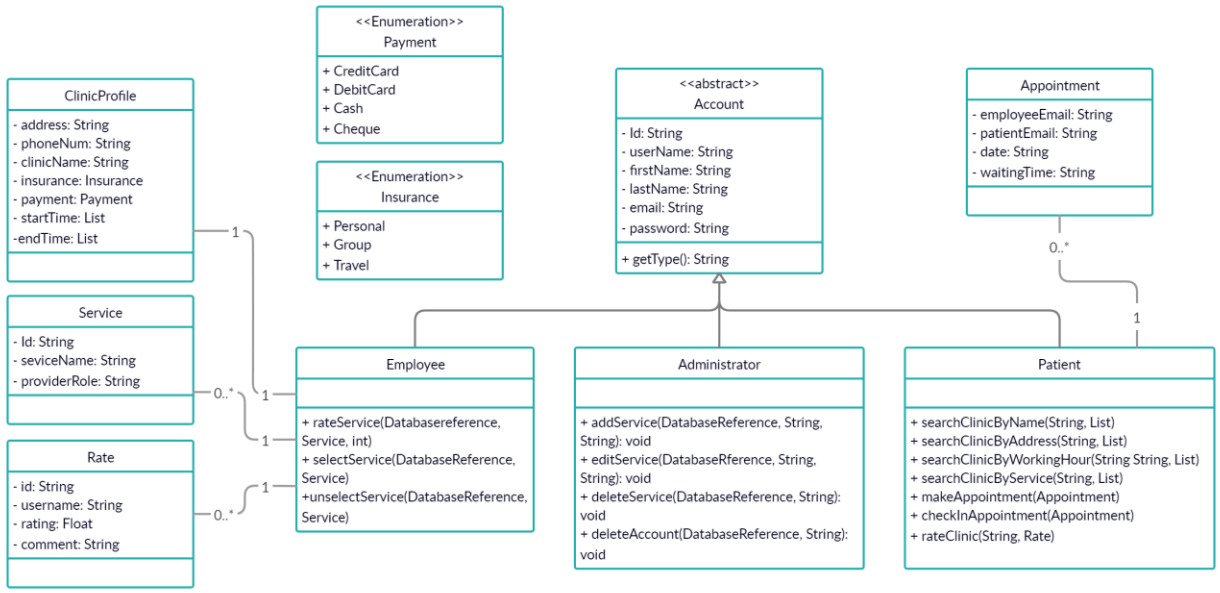
UML Class Diagram



Summary

This project is the very first project for all of us, so we met a lot of difficulties during the development. However, from those difficulties, we also learnt a lot.

Since the first deliverable is the easiest one, we did not have trouble. We just used the knowledge learnt from the lab and the tutorial, and everything went pretty well. What's more, we also got the bonus for using the database.

In the second deliverable, we met some trouble. In this deliverable, we had a hard time with the UI design and how to share and pass information between different activities. We searched on the Internet, and finally we decided to use navigation view to organize the different kinds of information displayed to the user. For the information passing, we decided to use Bundle to put Information needed to pass.

In the third deliverable, we had big trouble with finishing work before the deadline, since there was 10 days between deliverable 2 and 3. During those 10 days, we also had midterms, so the schedule was really tight for all of us. Finally, we stayed up late to meet the deadline. After that, we thought we should improve our efficiency of our development by communicating with each other more often.

We did the presentation really bad, since we changed our code 15 minutes before the presentation. However, this failure raised a big problem. We just tested the new functionality using the existing account, so when we used a new account to give the presentation, there was a crash that we could not fix in a short time. After this, we knew that our test was not functional enough, and our tests should be more functional.

In the last deliverable, we were more experienced, so even though we met some trouble, we could handle it.

Of course, we also learnt how to collaborate using GitHub for our project. We created a branch called develop to develop, and after finishing each deliverable, we merged the develop branch to master branch. In this way, we can always make sure we have something working.

Work Distribution

Student Name	Student Number	Distributed work
Hongyi Lin	300053082	back-end development
Kangwei Liao	8568800	front-end development
Rodger Rentanal	300052309	test

Personal Contributions to each development

- Deliverable 1
    - Hongyi Lin: Write the code to implement the logic of the required functionality, and set up the firebase services.
    - Kangwei Liao: Design the UI of the login activity and register activity
    - Rodger Rentanal: Design the classes.
- Deliverable 2
    - Hongyi Lin: Write the code to implement the required functionality for the Administrator class, and manage the database.
    - Kangwei Liao: Design the UI for the home page of the app.
    - Rodger Rentanal: Write the 5 unit tests.
- Deliverable 3
    - Hongyi Lin: Write the code to implement the required functionality for the Employee class, and manage the database.
    - Kangwei Liao: Design the UI.
    - Rodger Rentanal: Write 2 unit tests.
- Deliverable 4
    - Hongyi Lin: Write the code to implement the required functionality for the Patient class, and manage the database.
    - Kangwei Liao: Design the UI.
    - Rodger Rentanal: Write the 10 unit tests.

Unfair Distribution

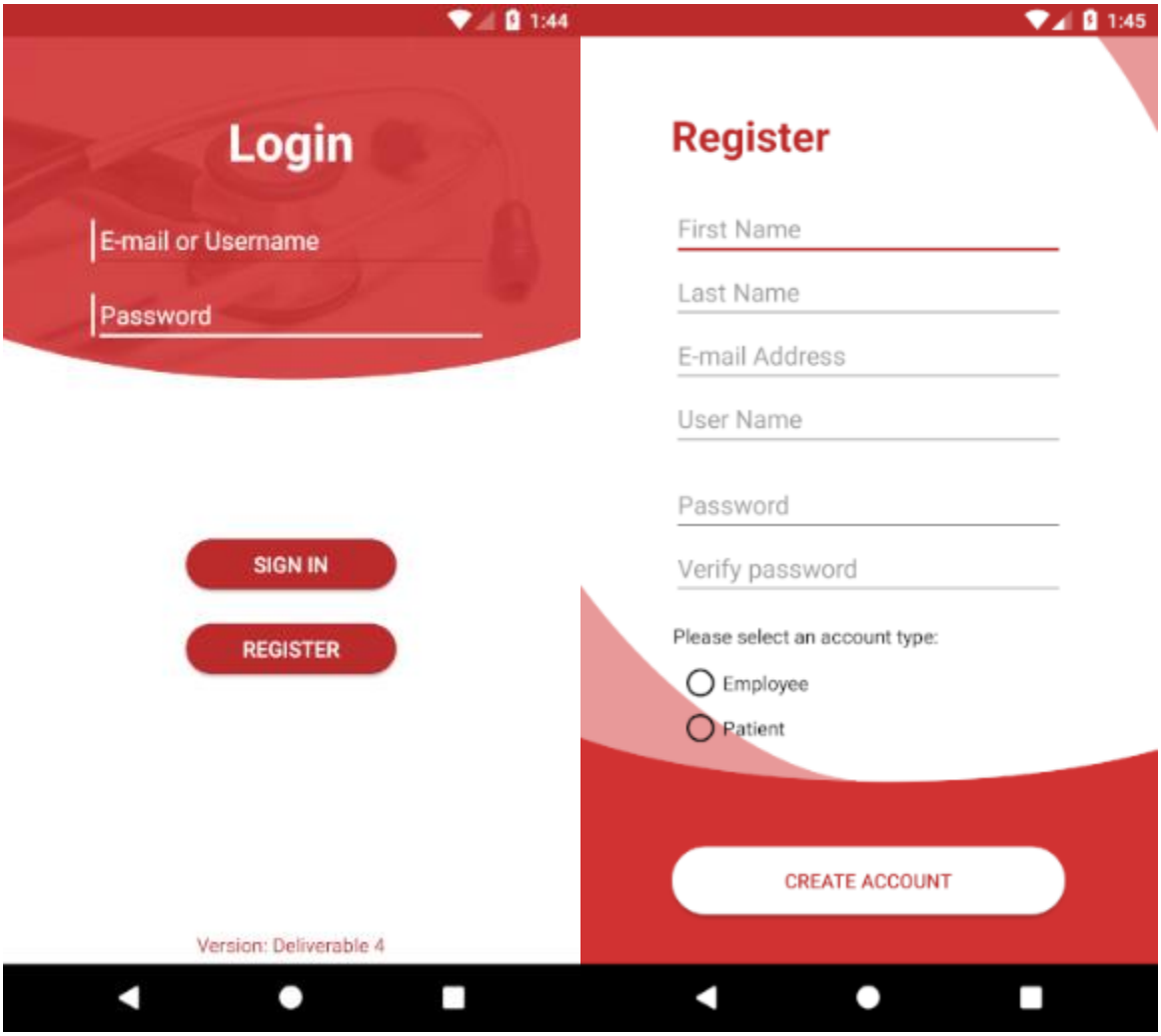
In deliverable 1, there is no need to write the unit tests, so Rodger almost had nothing to do. In order to participate in the development process, Rodger helped Hongyi do back-end stuff.

In deliverable 3, just 2 unit tests are needed, so Rodger job was much less than Hongyi and Kangwei.

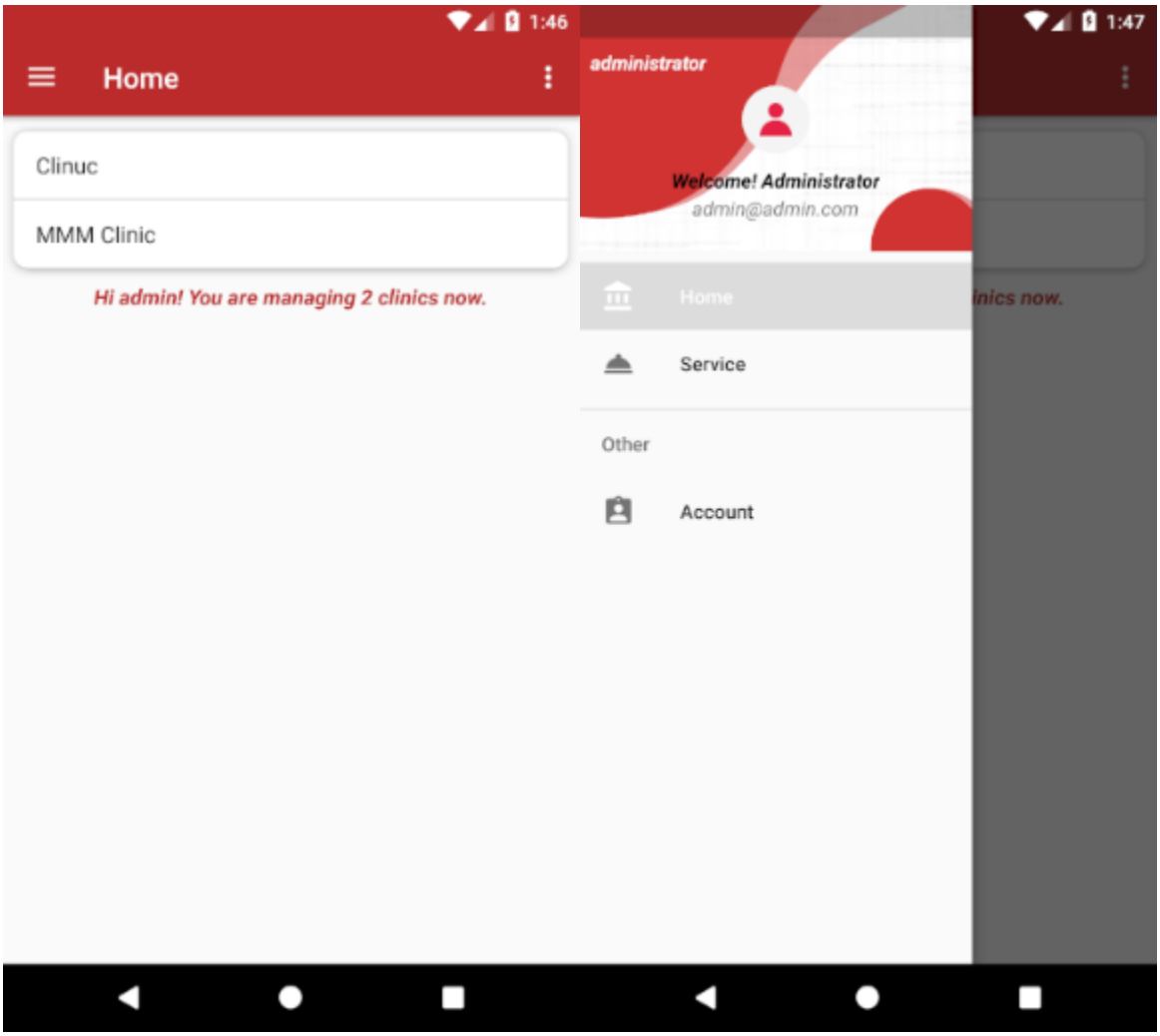
Screenshots of our app

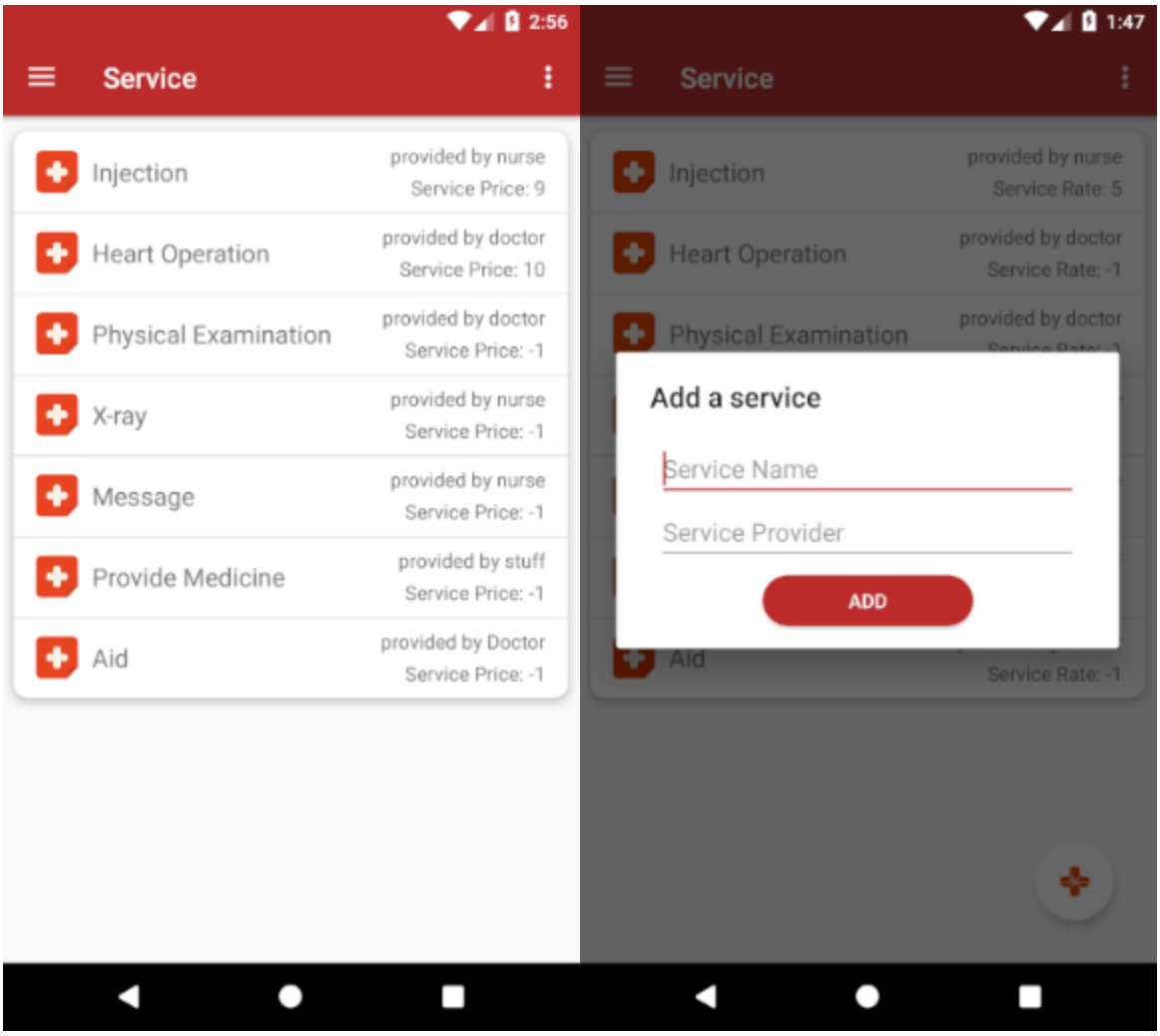
log-in

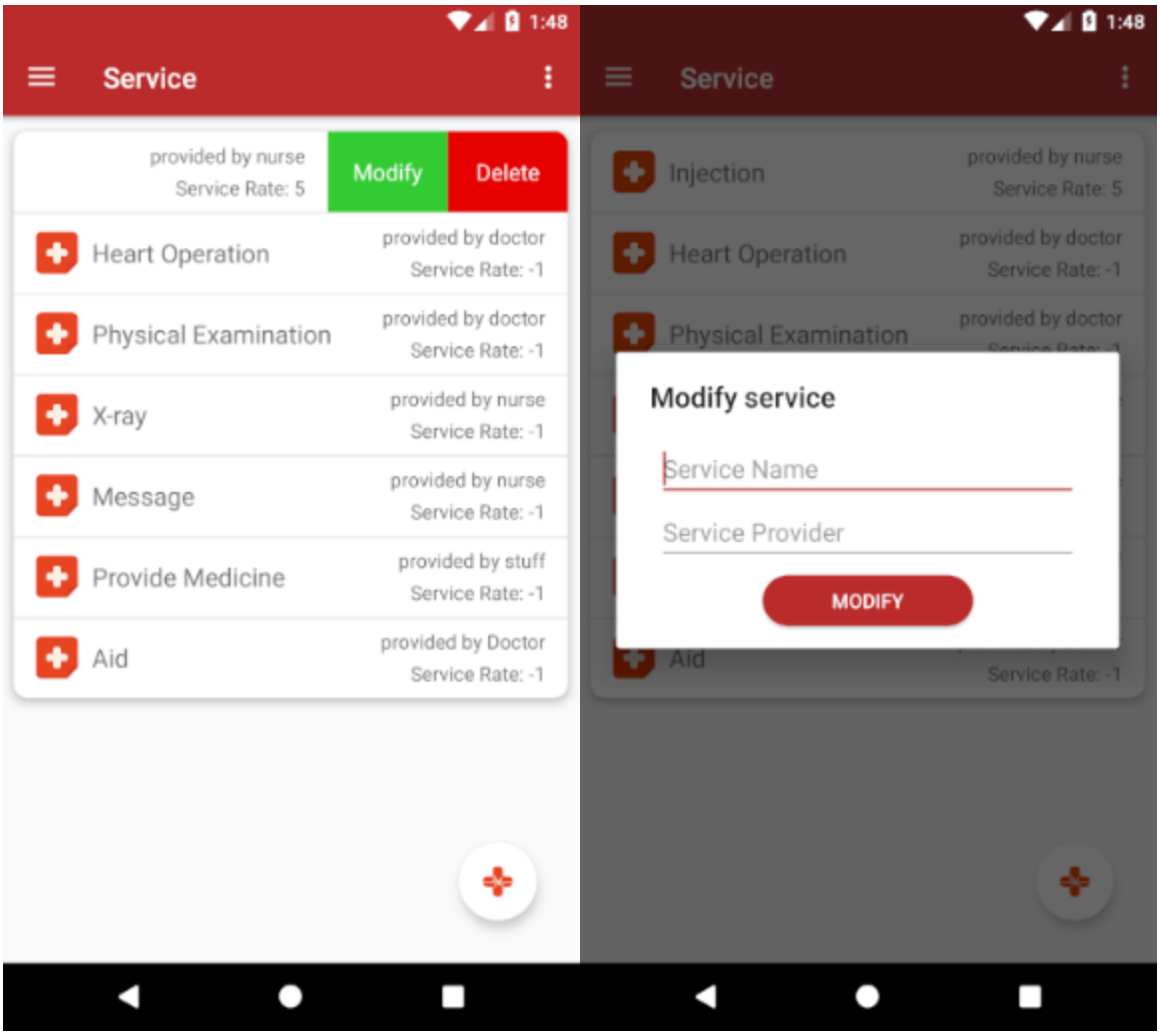
register

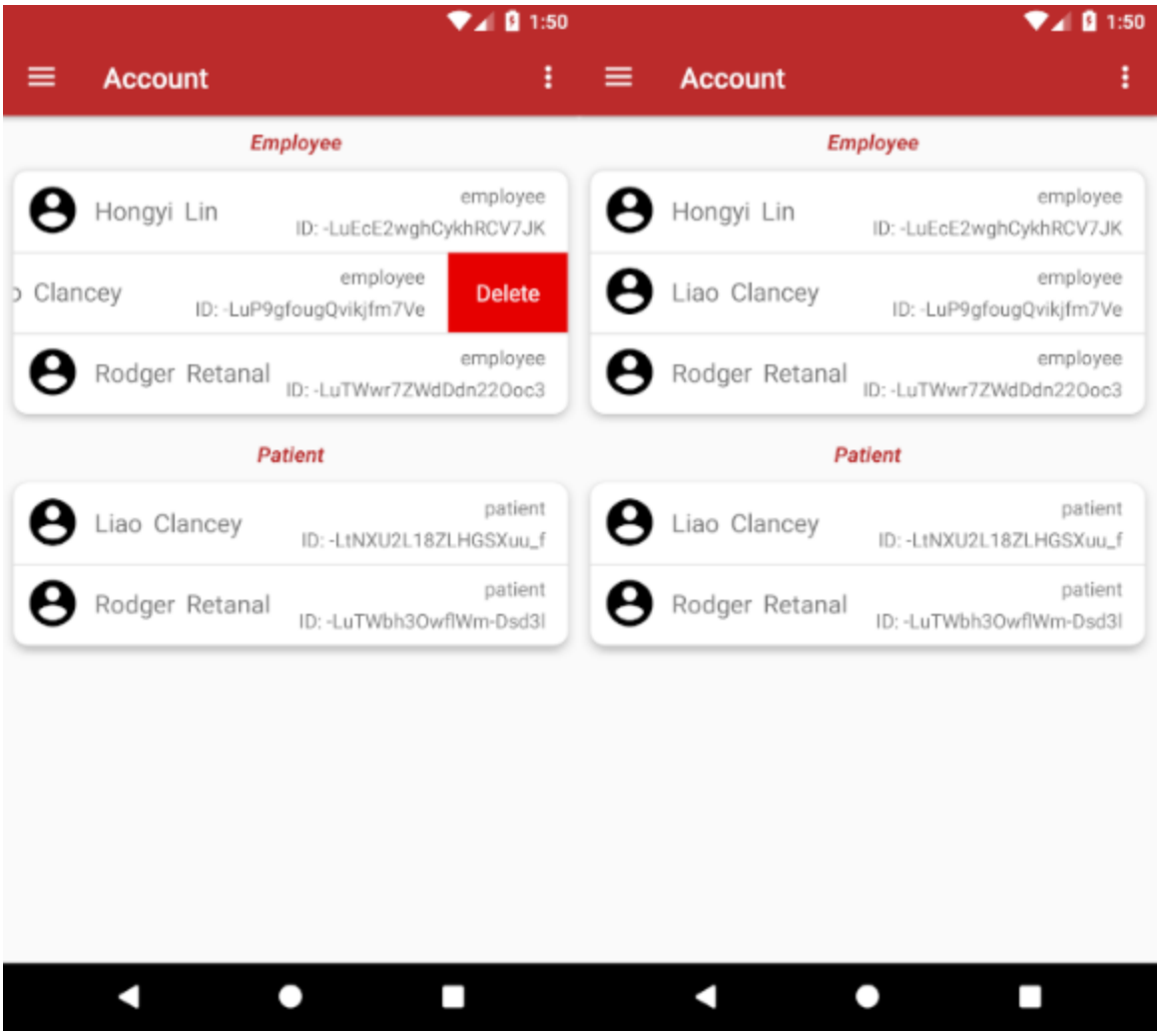


administrator interface

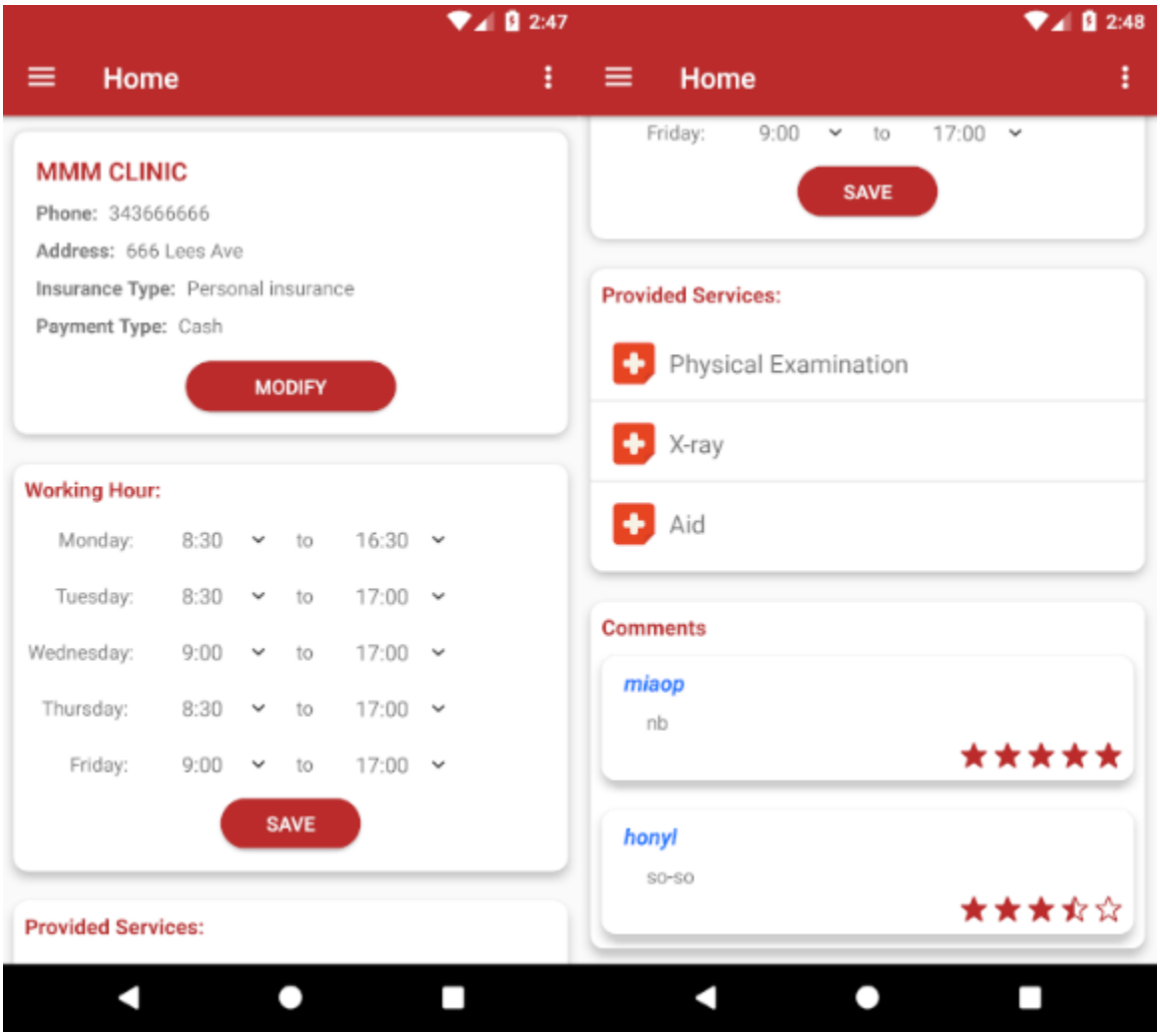


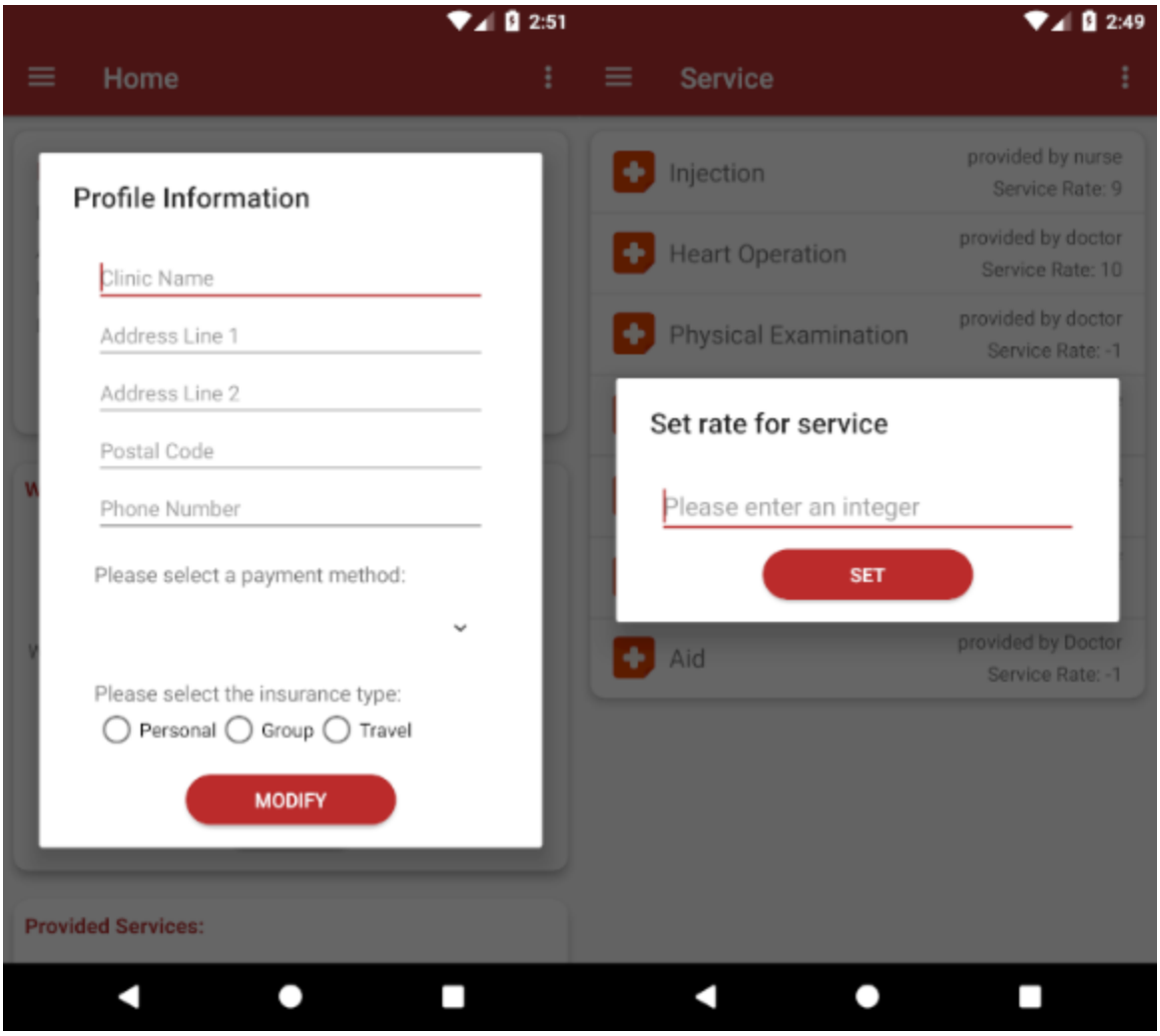

2:56
Service
Injection
provided by nurse
Service Price: 9
Heart Operation
provided by doctor
Service Price: 10
Physical Examination
provided by doctor
Service Price: -1
X-ray
provided by nurse
Service Price: -1
Message
provided by nurse
Service Price: -1
Provide Medicine
provided by stuff
Service Price: -1
Aid
provided by Doctor
Service Price: -1
1:47
Service
Injection
provided by nurse
Service Rate: 5
Heart Operation
provided by doctor
Service Rate: -1
Physical Examination
provided by doctor
Add a service
Service Name
Service Provider
ADD
Aid
Service Rate: -1

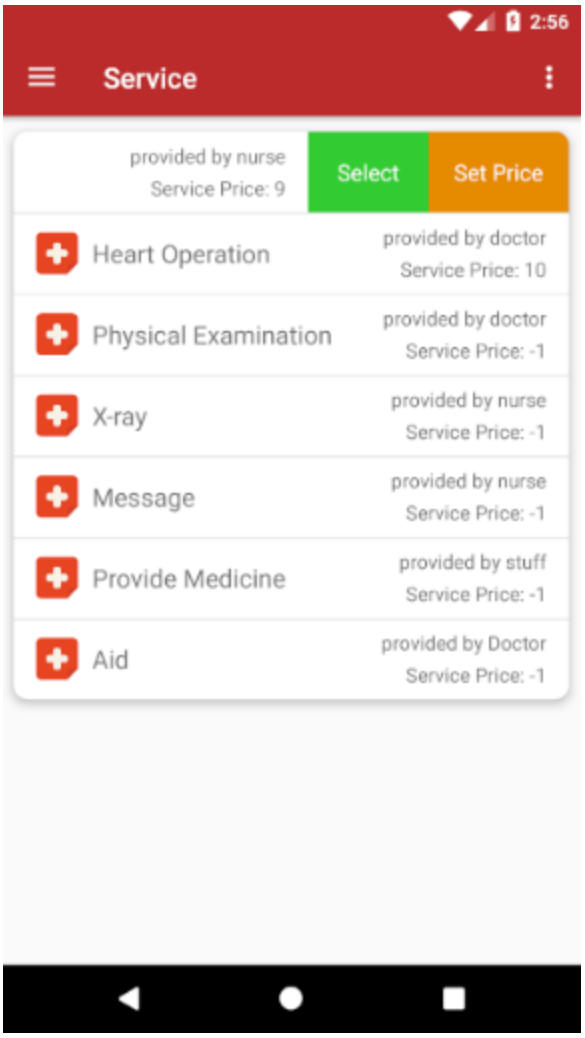

1:48
Service
provided by nurse
Service Rate: 5
Modify
Delete
Heart Operation
provided by doctor
Service Rate: -1
Physical Examination
provided by doctor
Service Rate: -1
X-ray
provided by nurse
Service Rate: -1
Message
provided by nurse
Service Rate: -1
Provide Medicine
provided by stuff
Service Rate: -1
Aid
provided by Doctor
Service Rate: -1
1:48
Service
Injection
provided by nurse
Service Rate: 5
Heart Operation
provided by doctor
Service Rate: -1
Physical Examination
provided by doctor
Modify service
Service Name
Service Provider
MODIFY
Aid
Service Rate: -1


1:50
Account
Employee
Hongyi Lin
employee
ID: -LuEcE2wghCykhRCV7JK
Clancey
employee
ID: -LuP9gfougQvikjfm7Ve
Delete
Rodger Retanal
employee
ID: -LuTWwr7ZWdDdn22Ooc3
Patient
Liao Clancey
patient
ID: -LtNXU2L18ZLHGSXuu_f
Rodger Retanal
patient
ID: -LuTWbh3OwflWm-Dsd3l
1:50
Account
Employee
Hongyi Lin
employee
ID: -LuEcE2wghCykhRCV7JK
Liao Clancey
employee
ID: -LuP9gfougQvikjfm7Ve
Rodger Retanal
employee
ID: -LuTWwr7ZWdDdn22Ooc3
Patient
Liao Clancey
patient
ID: -LtNXU2L18ZLHGSXuu_f
Rodger Retanal
patient
ID: -LuTWbh3OwflWm-Dsd3l

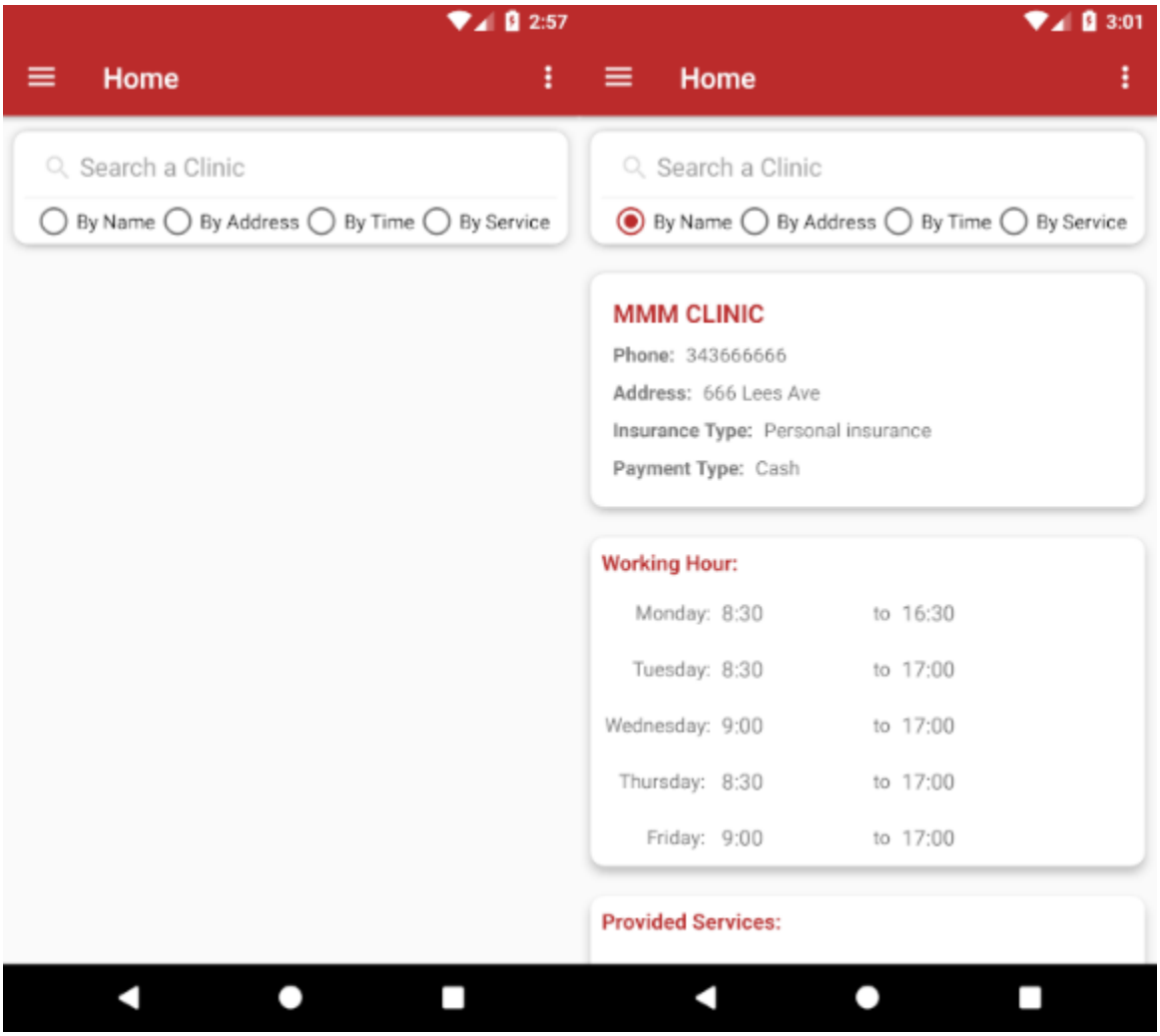
employee interface

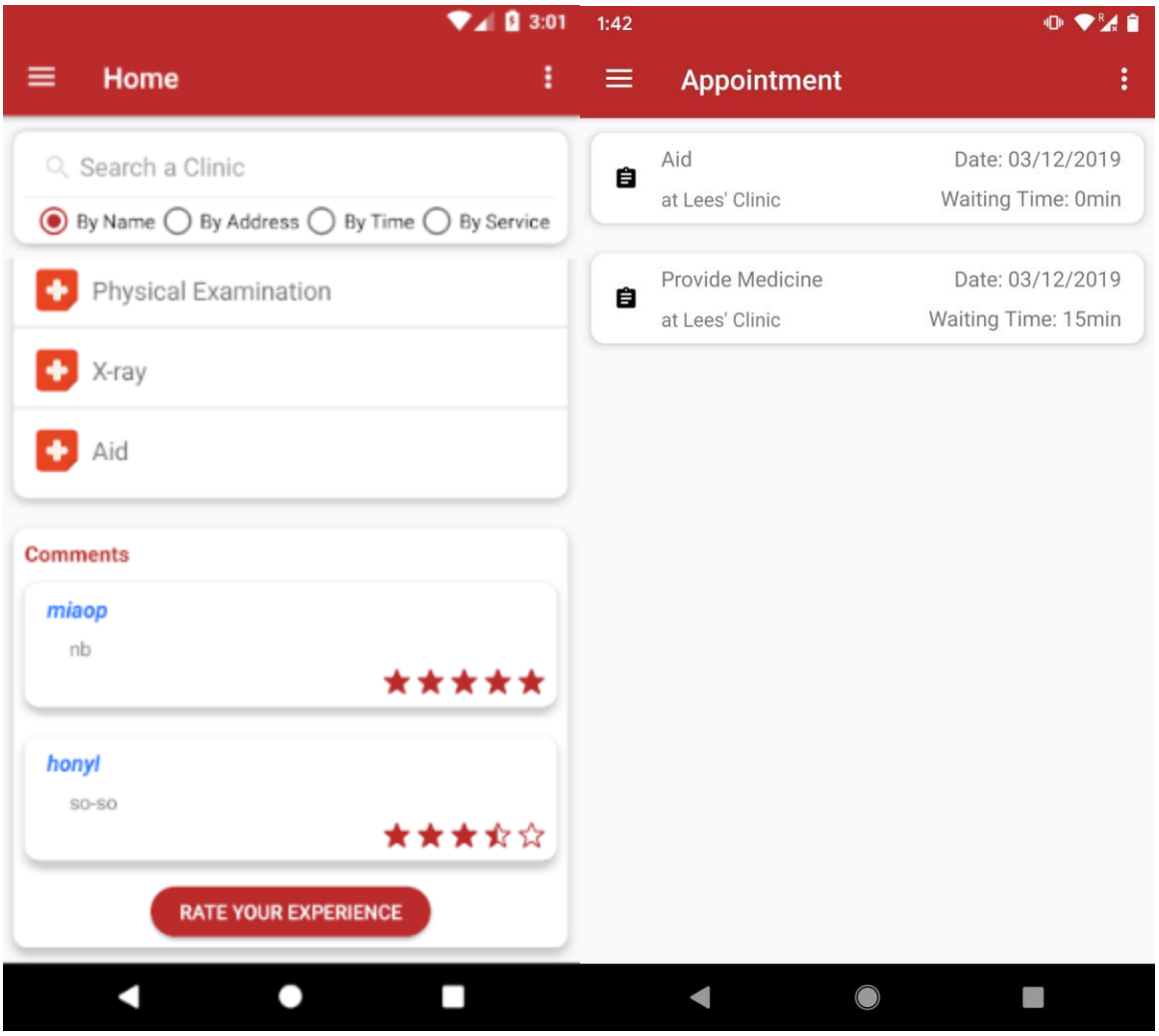


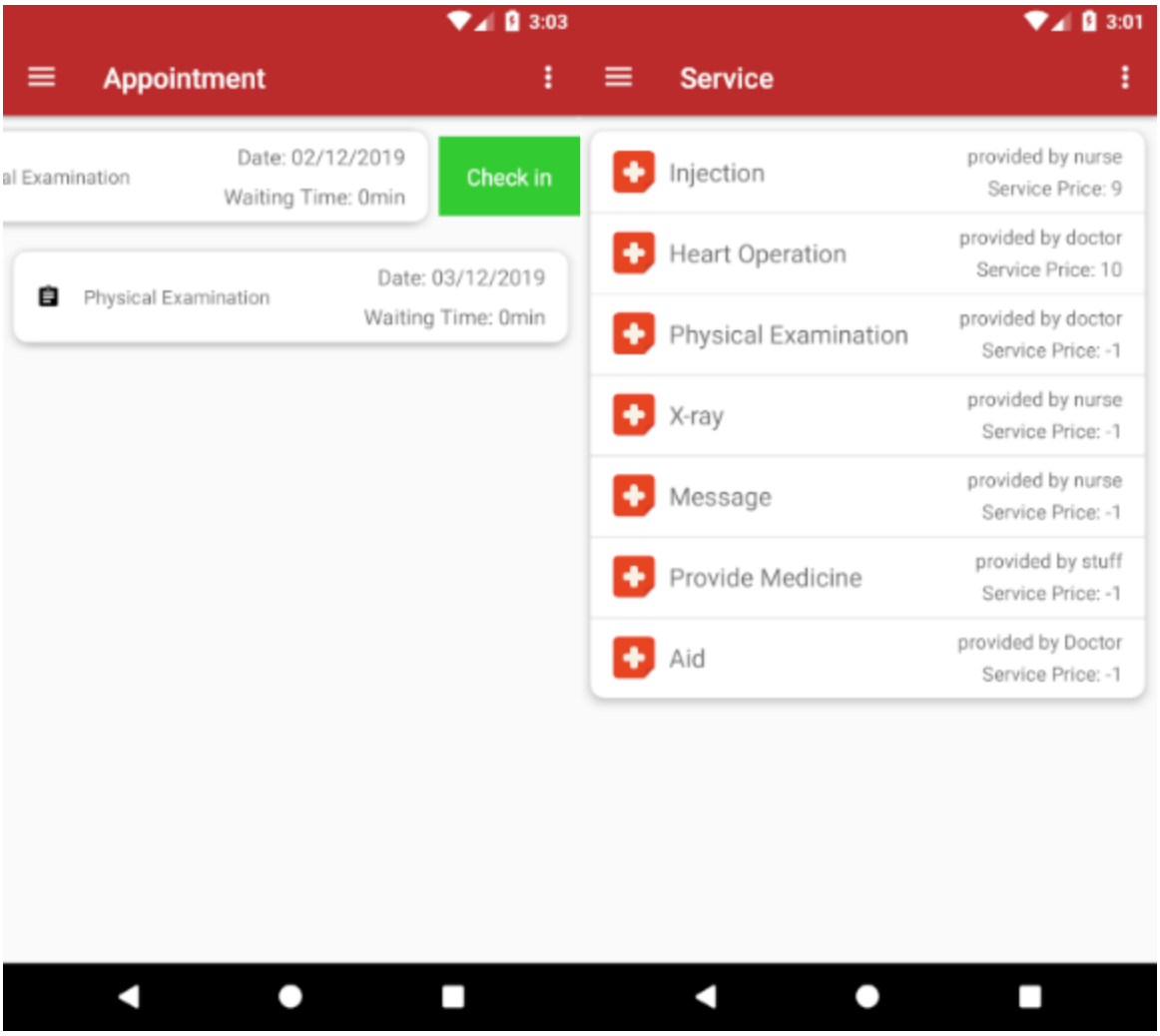

2:51
Home
Profile Information
Clinic Name
Address Line 1
Address Line 2
Postal Code
Phone Number
Please select a payment method:
Please select the insurance type:
Personal
Group
Travel
MODIFY
Provided Services:
2:49
Service
Injection
provided by nurse
Service Rate: 9
Heart Operation
provided by doctor
Service Rate: 10
Physical Examination
provided by doctor
Service Rate: -1
Set rate for service
Please enter an integer
SET
Aid
provided by Doctor
Service Rate: -1


2:56
Service
provided by nurse
Service Price: 9
Select
Set Price
Heart Operation
provided by doctor
Service Price: 10
Physical Examination
provided by doctor
Service Price: -1
X-ray
provided by nurse
Service Price: -1
Message
provided by nurse
Service Price: -1
Provide Medicine
provided by stuff
Service Price: -1
Aid
provided by Doctor
Service Price: -1

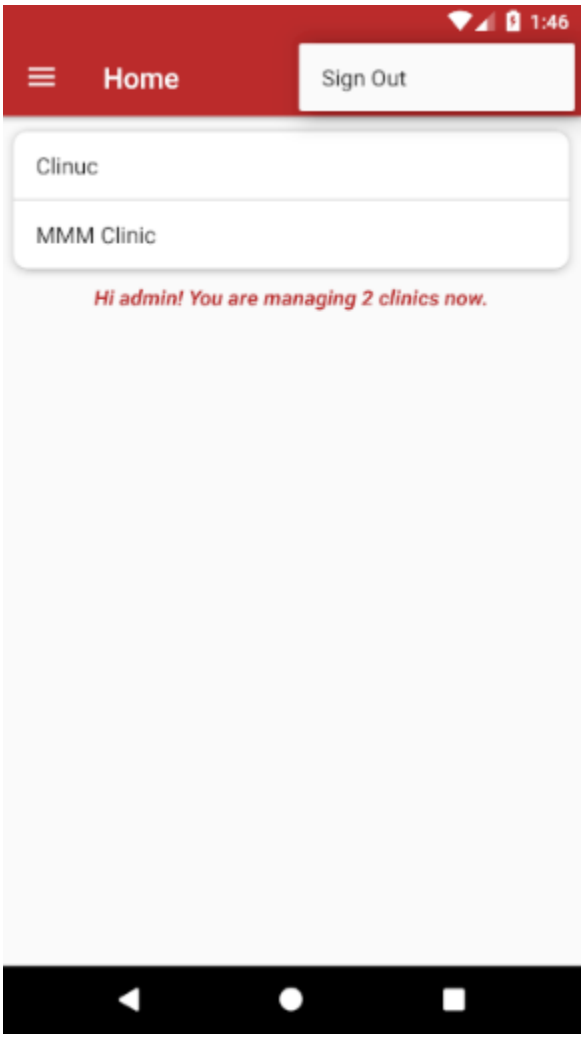
patient interface




3:01
Home
Search a Clinic
By Name
By Address
By Time
By Service
Physical Examination
X-ray
Aid
Comments
miaop
nb
honyl
so-so
RATE YOUR EXPERIENCE
1:42
Appointment
Aid
Date: 03/12/2019
at Lees' Clinic
Waiting Time: 0min
Provide Medicine
Date: 03/12/2019
at Lees' Clinic
Waiting Time: 15min


3:03
Appointment
al Examination
Date: 02/12/2019
Waiting Time: 0min
Check in
Physical Examination
Date: 03/12/2019
Waiting Time: 0min
3:01
Service
Injection
provided by nurse
Service Price: 9
Heart Operation
provided by doctor
Service Price: 10
Physical Examination
provided by doctor
Service Price: -1
X-ray
provided by nurse
Service Price: -1
Message
provided by nurse
Service Price: -1
Provide Medicine
provided by stuff
Service Price: -1
Aid
provided by Doctor
Service Price: -1

Sign-out


1:46
Home
Sign Out
Clinuc
MMM Clinic
Hi admin! You are managing 2 clinics now.