

SEG2105 Final Report

Group40

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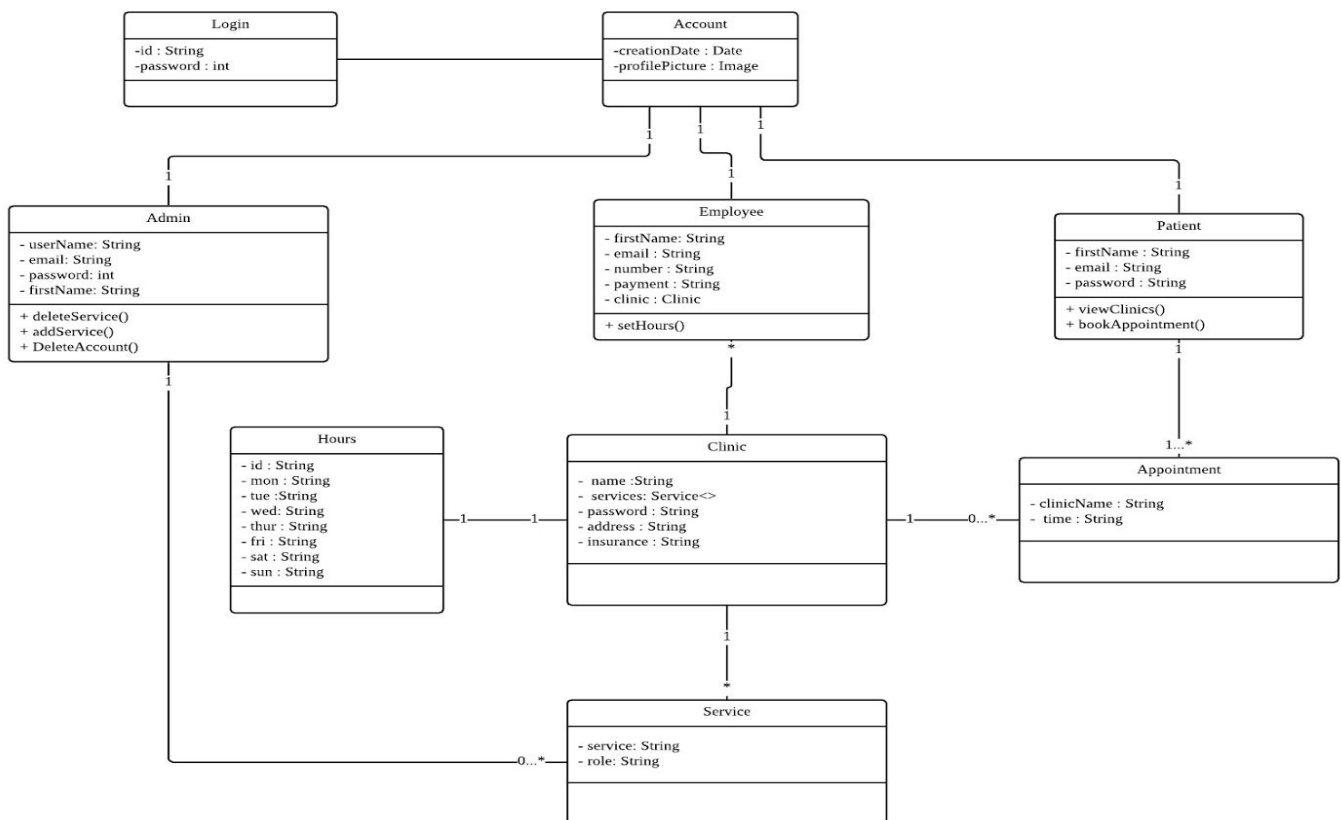
Introduction

The goal of this project is to implement a fully functional walk-in clinic application to assist both patients and clinics in managing their appointments and services using Android Studio. The purpose of this project is to expand on the theoretical work, apply coding techniques and gain experience of cooperating with teammates.

The app is designed for three types of users; administrator, employee and patient. Each type of user has its own set of functionalities and is able to register an account associated with his/her role. By signing in different roles in the login page, the user can be redirected to the new interface where its functionalities apply. For example, signing in as an employee, the user can create and delete service for patients.

Following the instructions, we managed to build up this application step by step through each deliverable and the UML diagram of this project was updated whenever a change was being made.

UML



Roles

Through each deliverable, all members kept similar roles in order to have a smooth workflow. Tolu was in charge of the layout and user interface implementation in each deliverable, Ade was in charge of the back end implementation of required functionalities and Yilin was in charge of testing and fixing errors at runtime as well as the UML diagrams.

Del 1	<p>Tolu Egbetokun - Designed user interface for login and welcome screen on patient and employee account.</p> <p>Ade Sobodu - Implemented the login authentication and database for storing patient and employee info and field validations.</p> <p>Yilin Yang - Tested functionality required for this deliverable, and assisted in fixing errors.</p>
Del 2	<p>Tolu Egbetokun - Designed user interface for the admin account and all related activity classes.</p> <p>Ade Sobodu - Implemented add, remove, and edit services functionality as well as field validations and some unit tests.</p> <p>Yilin Yang - Tested functionality required for this deliverable, some unit tests and assisted in fixing errors.</p>
Del 3	<p>Tolu Egbetokun - Designed user interface for the for employee account and all related activity classes</p> <p>Ade Sobodu - Implemented employee profile functionality which included, adding services, deleting and view working hours as well as field validations.</p> <p>Yilin Yang - Tested functionality required for this deliverable, some unit tests and assisted in fixing errors.</p>
Del 4	<p>Tolu Egbetokun - Designed user interface for the patient account, all related activity classes and made some unit tests.</p> <p>Ade Sobodu - Implemented search for and book appointment functionality and made some unit tests.</p> <p>Yilin Yang - Tested functionality required for this deliverable and made some unit tests</p>

App Screenshots

All app screenshots are shown below respectively.

1. Login interface
2. Sign up as an employee
3. Log in as an employee
4. Edit my profile
5. Edit working hours for the clinic
6. View services that provided
7. Add services (services list given can be modified by admin)
8. Service added
9. Long pressed to delete a service
10. Log in as an administrator
11. Administrator interface
12. Modify a new service
13. Service added
14. Accounts can be viewed by an administrator
15. Log in as a patient
16. Appointment booking page
17. View appointments
18. Services provided
19. Hours to book
20. Date to book
21. Calendar view appointment and Approximate wait time

7:19



WalkInClinicServices

Welcome! Please login.

Username (email)

Password

Admin

LOGIN

New user? Sign up!

SIGN UP

7:21



WalkInClinicServices

Please fill in the info below

yang

idk@uottawa.ca

.....

Employee

REGISTER

7:21



WalkInClinicServices

PROFILE

Name yang

Email idk@uottawa.ca

Address Edit your profile!

Phone Number Edit your profile!

Clinic Edit your profile!

Insurance Edit your profile!

Payment Methods Edit your profile!

EDIT

EDIT HOURS

VIEW SERVICES

7:22



WalkInClinicServices

PROFILE EDIT

Address*

Street#

Unit#

Street Name

City

Province

Country

Phone Number*

Phone Number

Clinic*

Clinic Name

Insurance*

Insurances accepted

Payment*

Payment Methods Accepted

SAVE

LOGOUT

7:24



WalkInClinicServices

WORKING HOURS

Monday	0:00 to 0:00
Tuesday	0:00 to 0:00
Wednesday	0:00 to 0:00
Thursday	0:00 to 0:00
Friday	0:00 to 0:00
Saturday	0:00 to 0:00
Sunday	0:00 to 0:00

EDIT

7:24



WalkInClinicServices

SERVICES OFFERED

Long press on a service to delete

ADD SERVICE

7:24



WalkInClinicServices

SERVICES AVAILABLE

Fluids test

Doctor

Blood Test

Doctor

Ultrasound

Doctor

Counselling

Psychologist



7:24



WalkInClinicServices

SERVICES OFFERED

Long press on a service to delete

Blood Test

Doctor

ADD SERVICE

7:25



WalkInClinicServices

SERVICES OFFERED

Long press on a service to delete

Blood Test

Doctor

Service has been removed

ADD SERVICE

7:27



WalkInClinicServices

Welcome! Please login.

idk@uottawa.ca

.....

Admin

LOGIN

New user? Sign up!

SIGN UP

7:27



WalkInClinicServices

SERVICES

Long press on a service to edit or delete it

Fluids test

Doctor

Blood Test

Doctor

Ultrasound

Doctor

ADD A NEW SERVICE

VIEW ACCOUNTS

LOGOUT

7:28

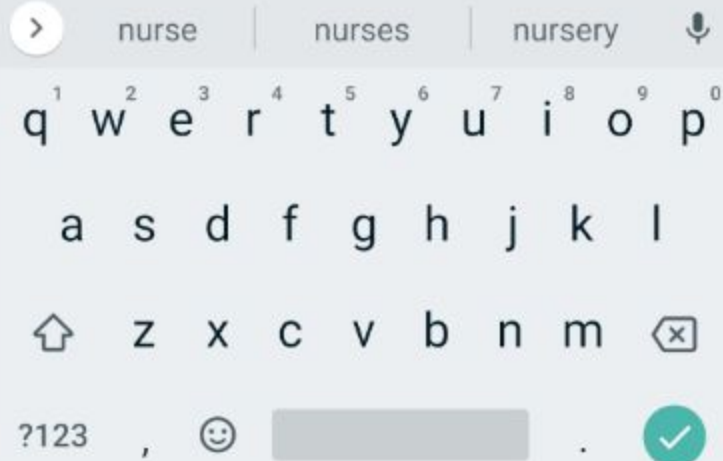


WalkInClinicServices

message

nurse

SAVE



7:28



WalkInClinicServices

SERVICES

Long press on a service to edit or delete it

aaa

doctor

massage

nurse

ADD A NEW SERVICE

VIEW ACCOUNTS

LOGOUT

7:29



WalkInClinicServices

Accounts

Using phones we provide our Accountant

yang

idk@uottawa.ca

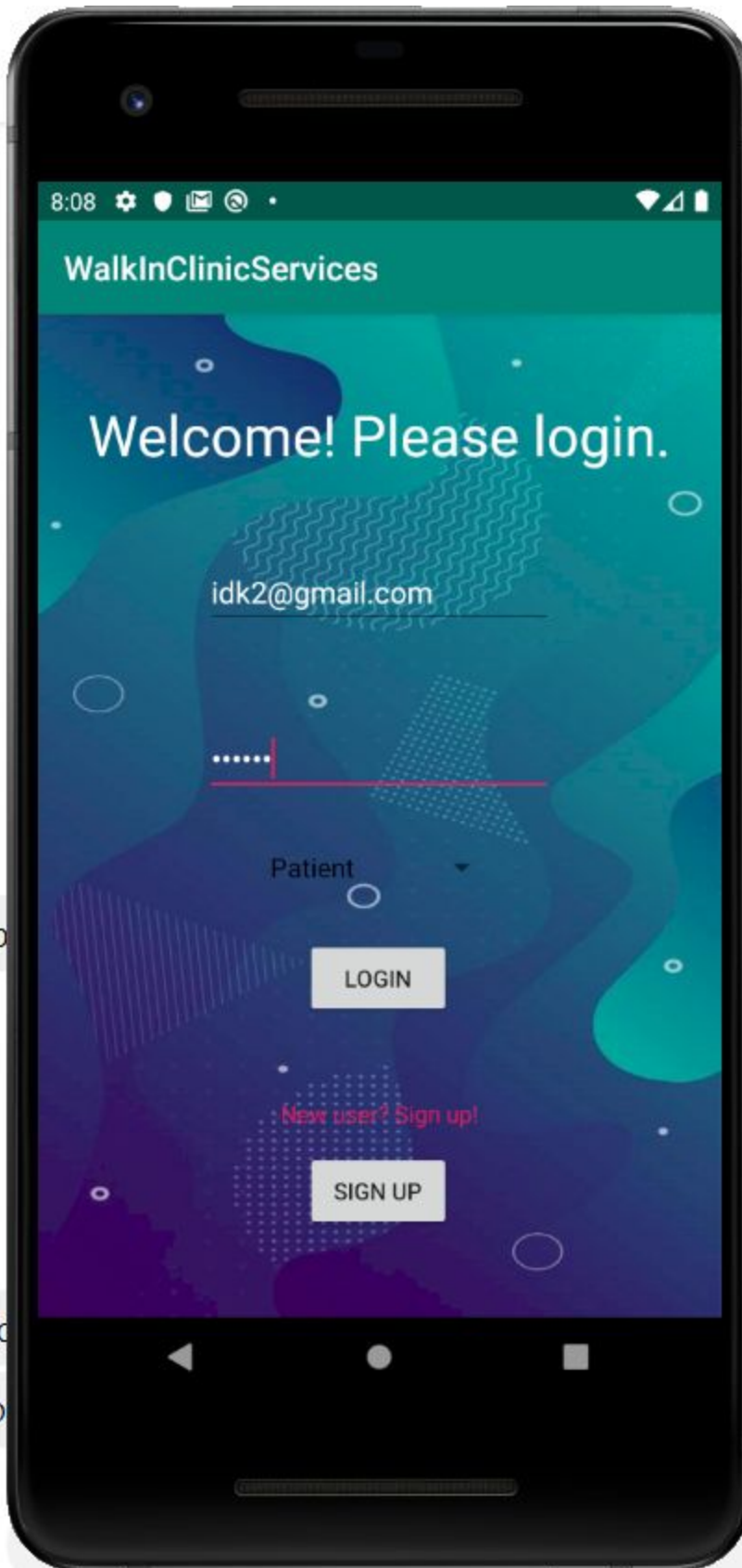
ode

ode@gmail.com

Michael

mgason@gmail.com

5



5

The image shows a mobile application interface for "WalkInClinicServices". At the top, there is a green header bar with the app name. Below it, the title "Book Appointment" is centered. The form includes an "Address" input field, a "Service:" dropdown menu currently showing "Fluids test", and a "Working Hours" section with "From:", "To:", and "Day:" dropdowns. A "SEARCH" button is positioned below the working hours section. Underneath the search button, the text "Available clinics" is displayed. At the bottom of the screen, there are two buttons: "VIEW BOOKINGS" and "LOGOUT". The status bar at the very top shows the time as 8:08 and various system icons.

8:08

WalkInClinicServices

Book Appointment

Address

Service:
Fluids test

Working Hours

From: 0:.. To: 0:.. Day: M..

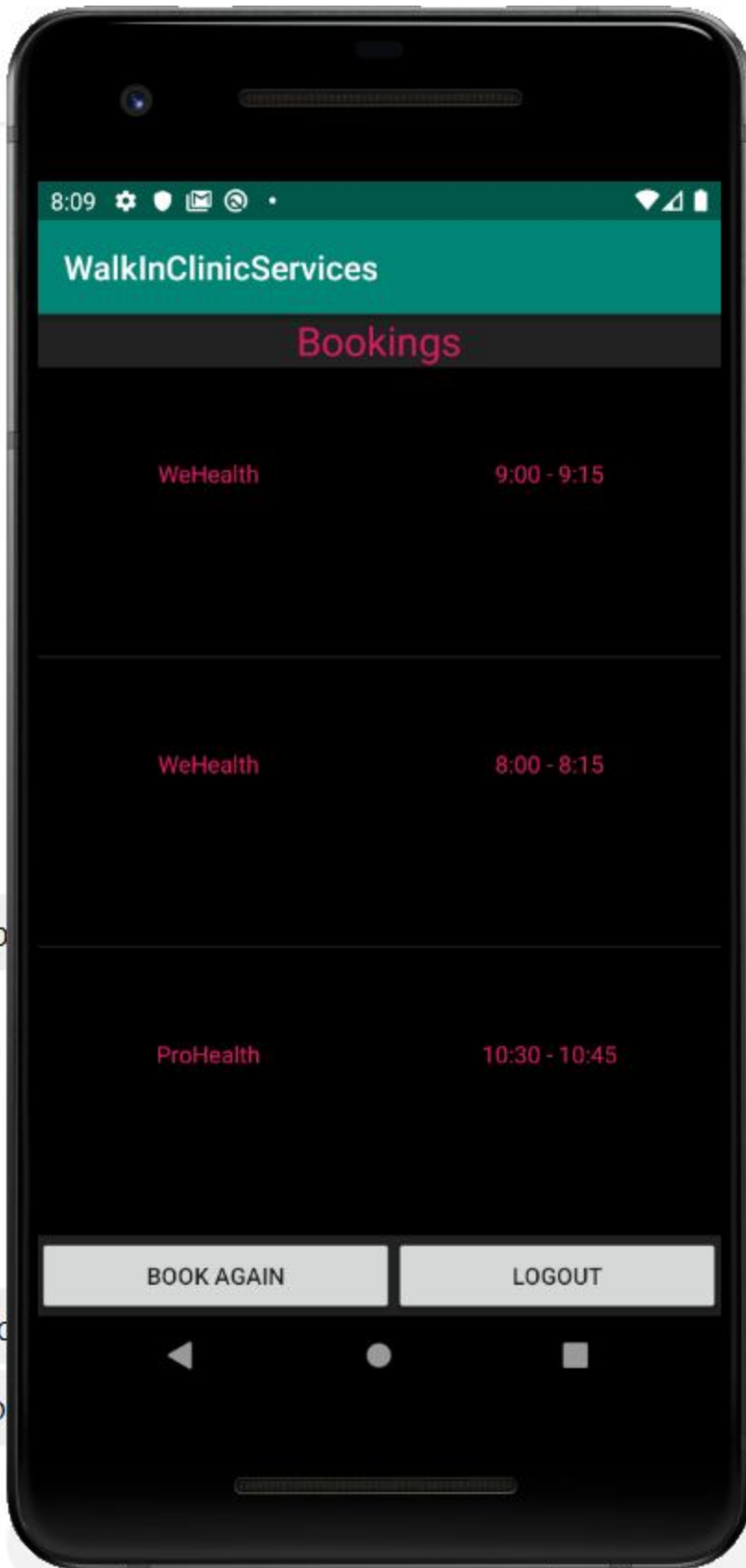
SEARCH

Available clinics

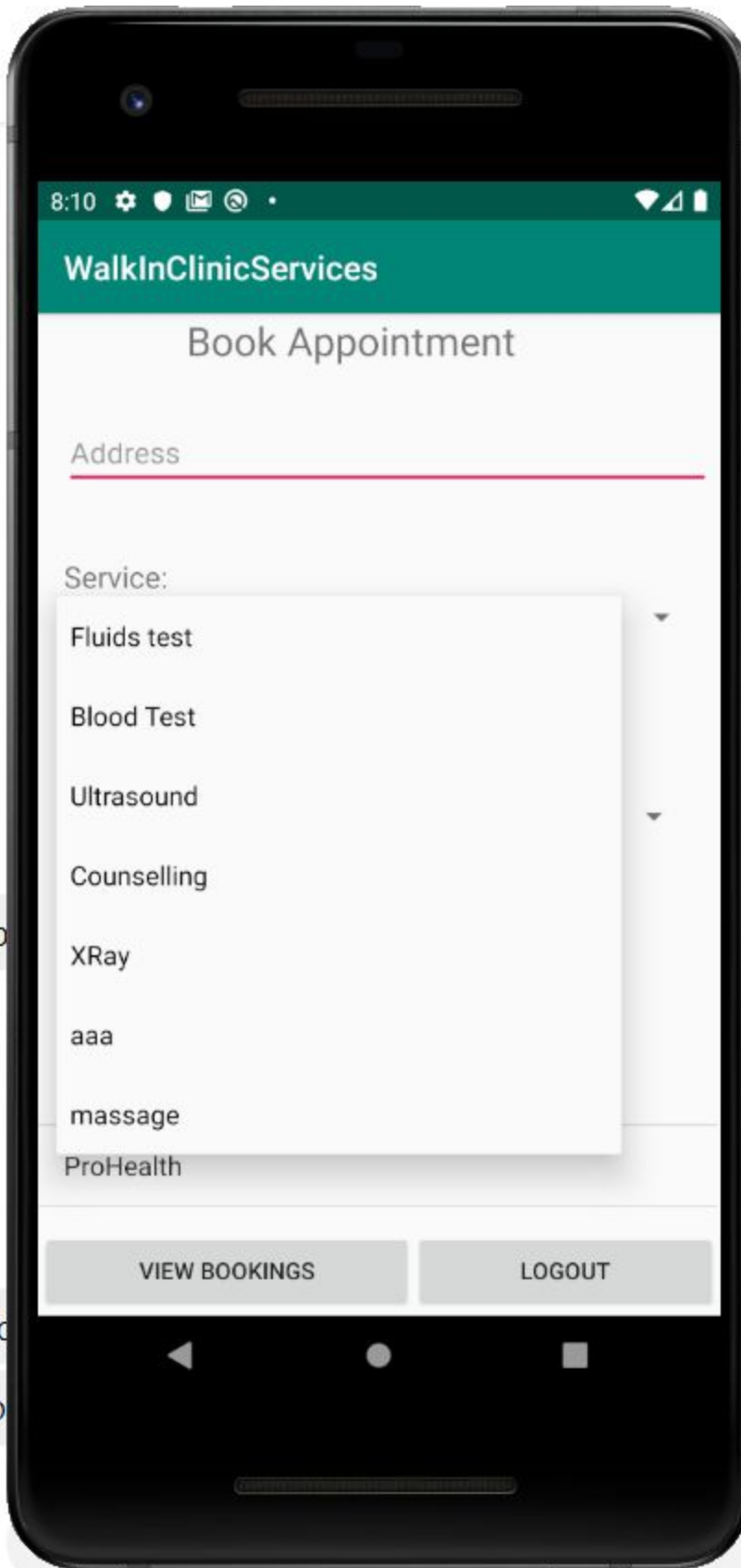
VIEW BOOKINGS

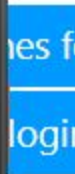
LOGOUT

5



5







8:10

WalkInClinicServices

Book Appointment

Address

Service:
Fluids test

Working Hours

From: 1:.. To: 1:.. Day: Mon

Tue

Wed

Thur

Fri

Sat

Sun

SEARCH

Available clinics

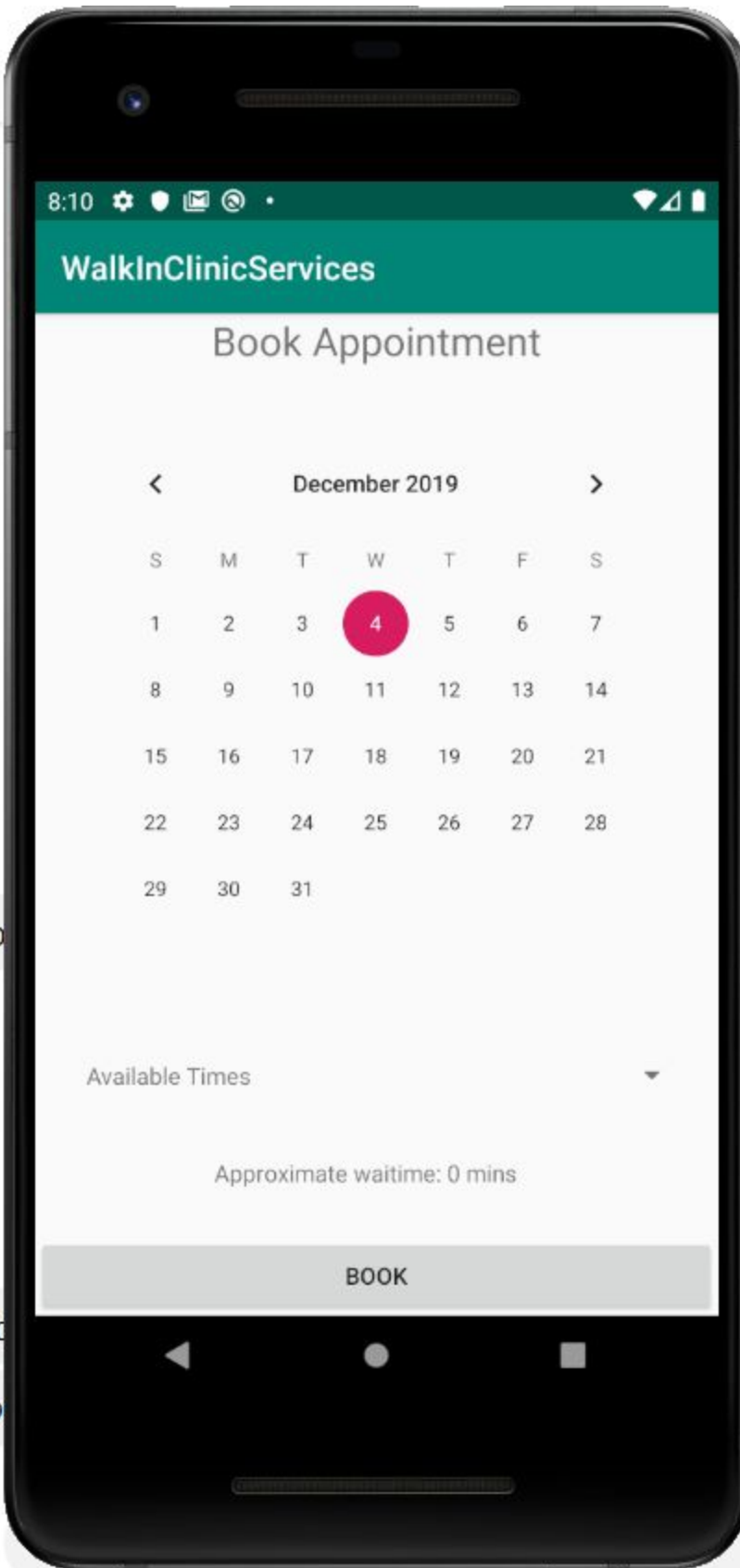
WeHealth

ProHealth

VIEW BOOKINGS

LO

5



Lessons learned

Through this project, we as a team learned not only technical skills but soft skills as well which will be useful in the future. We learned a vast amount of app functionalities and how to implement them all in the android studio environment. We also learned to apply design techniques and patterns learned in class in order to optimize our system and domain model. In terms of team skills, we learned to communicate any concerns with had about the project or one another and also motivate each other when needed. The purpose of this project was to expand on the theoretical work, apply coding techniques and gain experience of cooperating with teammates and one can conclude it did meet those objectives.