

SEG2105 - Fall 2019
Walk-In Clinic - Group 2

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Final Project Report

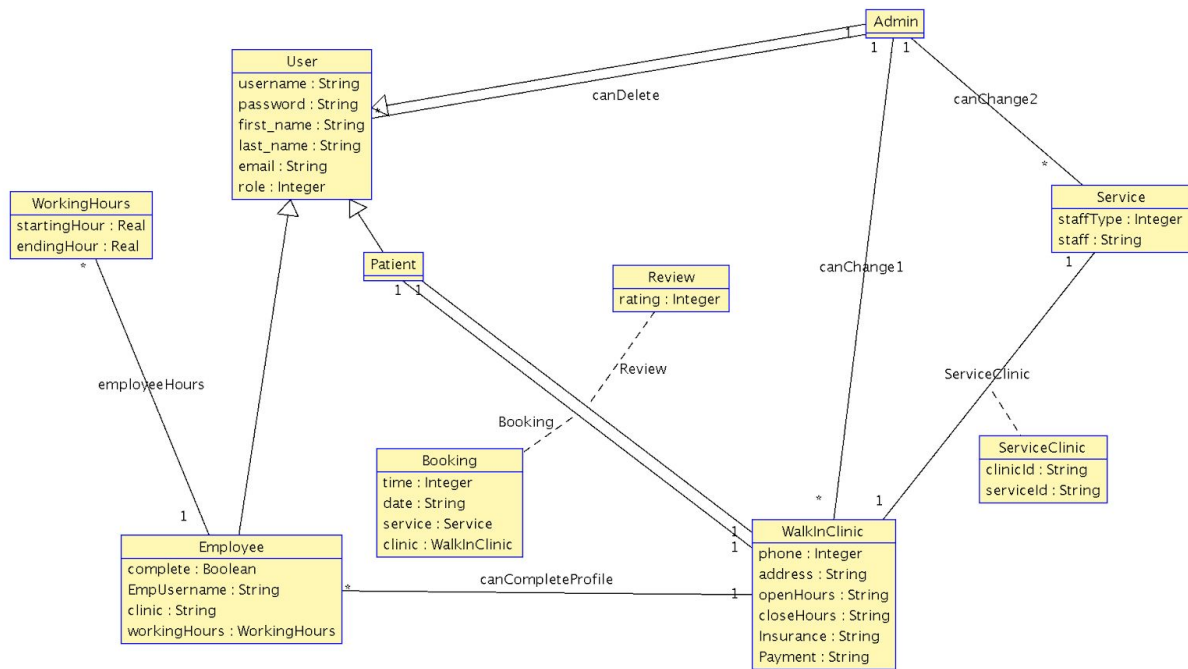
Introduction

The following is the report for “Walk-In Clinics” application project done throughout the semester. The application gives the opportunity to users to see the wait time of the clinics, search a clinic by certain criteria, and book an appointment from their own home. Employee users may create profiles from a clinic, and the administrator is responsible for managing clinics, services, and users.

The application was built in Android Studio, using Java and XML. For collaboration, Github and git were used. UML was used for modeling. The project taught every member a variety of skills that will be useful for future classes and career paths.

The report contains a title page, this introduction, and the UML diagram of the final application. Also found is a table containing the contributions from each member of the team and each one’s lessons learned. There are also screenshots of every page of the application.

UML Class Diagram



Roles and Contribution

<i>Deliverable</i>	<i>Who</i>	<i>What</i>	<i>Description</i>
1	Alexandra	UI	Design of UI, and Activity navigation
	Salomé		
	Matt	Firestore	Create firestore, and connect to application
	Matt	UML	Create UML diagram (UMPLE)
	Matt	Backend	Login/Register functionality ; Domain model classes
	Arman		
	Arman	Submission	Submit APK, and source code
	Arman	GIT	Create git repo
	Arman	Bug Fix	login-hotfix branch
	Alexandra		login-hotfix2 branch
	Alexandra		register-fix branch
2	Salomé	UI	Admin functionality : all
	Salomé	Backend	
	Alexandra		Admin functionality bug fix help
	Matt	UML	Update UML diagram (UMPLE)
	Arman	Test	Espresso tests (5)
	Arman	CircleCI	CircleCI configuration
	Arman	Submission	Submit APK, and source code
3	Salomé	UI	Employee UI : profile, clinic, services, welcome
	Matt	UI	Employee UI : employee hours
	Alexandra	Backend	Employee functionality : employee profile
	Salomé		Employee functionality : clinic profile & employee hours

	Matt		Employee functionality : employee hours
	Salomé	UML	Update UML diagram (USE)
	Arman	Test	Espresso tests (2)
	Arman	Submission	Submit APK, and source code
4	Alexandra	Backend/UI	Patient functionality : login, profile, search for clinic, clinic rating, book an appointment
	Salomé	Backend	Patient functionality : search for clinic by service
	Salomé	Bug Fix	Bug catching and fixing
	Matt	UML	Update UML diagram (USE)
	Salomé		
	Alexandra		
	Matt	Testing	Espresso tests (10)
	Everyone	Report	Personal feedback
	Alexandra		this.getSpreadsheet();
	Salomé		Final Report
	Arman	Submission	Submit APK, and source code

Screenshots

General

Main

WalkInClinic

Walk-in Clinic

REGISTER

LOG IN

Alexandra Sklokin, Arman Kompany Zare,
Matthew Tran and Salomé Dionne-Laforest

Registration

WalkInClinic

Registration

Enter your first name

Enter your last name

Enter your email address

Enter your username

Enter your password

Re-enter your password

Select your status

☐ Patient

☐ Employee

SUBMIT

BACK

Login

WalkInClinic

Log In

Enter your username

Enter your password

SUBMIT

BACK

Administrator

Welcome Page

WalkInClinic

Welcome Administrator!
You're logged in as an admin.

VIEW SERVICES

VIEW USERS

VIEW CLINICS

LOG OFF

View Users

WalkInClinic

Users

aa

Name: aa aa, Email: aa@aa.com, Role: patient

aelsawah

Name: ayman sawah, Email: ayman@uottawa.ca, Role: patient

akomp033

Name: Arman Kompany Zare, Email: akomp033@uottawa.ca, Role: patient

asklo016

Name: Alexandra Sklokin, Email: asklo016@uottawa.ca, Role: patient

bk

BACK

Delete Users

WalkInClinic

Users

aa

Name: aa aa, Email: aa@aa.com, Role: patient

aelsawah

Name: ayman sawah, Email: ayman@uottawa.ca, Role: patient

akomp033

Name: Arman Kompany Zare, Email: akomp033@uottawa.ca, Role: patient

asklo016

Name: Alexandra Sklokin, Email: asklo016@uottawa.ca, Role: patient

bk

aa

DELETE USER

CANCEL

BACK

View Services

WalkInClinic

Available Services

Surgery

Staff: Doctor

Blah

Staff: Other

tjf

Staff: Doctor

Test Service482

Staff: Nurse

AAA

Staff: Other

Cool

ADD NEW SERVICE

BACK

Add Service

WalkInClinic

Available Services

Surgery

Staff: Doctor

Blah

Staff: Other

tjf

Staff: Doctor

Test Service482

Staff: Nurse

AAA

Staff: Other

Cool

ADD NEW SERVICE

BACK

Update/Delete Service

WalkInClinic

Available Services

Surgery

Staff: Doctor

Blah

Staff: Other

tjf

Staff: Doctor

Test Service482

Staff: Nurse

AAA

Staff: Other

Cool

ADD NEW SERVICE

BACK

View Clinics

WalkInClinic

Walk-In Clinics

Rainbow

Address: jireodk, Monday to Friday: 5 - 18, Saturday/Sunday: 8 - 17, Rating: 0.0

Bleh

Address: 6, Monday to Friday: 6 - 6, Saturday/Sunday: 6 - 6, Rating: 0.0

bb

Address: 21 Jump Street, Monday to Friday: 9 - 13, Saturday/Sunday: 9 - 13, Rating: 0.0

ADD NEW CLINIC

BACK

Add Clinic

WalkInClinic

Walk-In Clinics

Rainbow

Address: jireodk, Monday to Friday: 5 - 18, Saturday/Sunday: 8 - 17, Rating: 0.0

Bleh

Address: 6, Monday to Friday: 6 - 6, Saturday/Sunday: 6 - 6, Rating: 0.0

bb

Address: 21 Jump Street, Monday to Friday: 9 - 13, Saturday/Sunday: 9 - 13, Rating: 0.0

ADD NEW CLINIC

BACK

Update/Delete Clinic

WalkInClinic

Walk-In Clinics

Rainbow

Address: jireodk, Monday to Friday: 5 - 18, Saturday/Sunday: 8 - 17, Rating: 0.0

Bleh

Address: 6, Monday to Friday: 6 - 6, Saturday/Sunday: 6 - 6, Rating: 0.0

bb

Address: 21 Jump Street, Monday to Friday: 9 - 13, Saturday/Sunday: 9 - 13, Rating: 0.0

ADD NEW CLINIC

BACK

Employee

Welcome Page

WalkInClinic

Welcome Salome!
You're logged in as an employee.

PROFILE

CLINIC

MY HOURS

LOG OFF

Employee Profile (before clinic)

WalkInClinic

Profile

Name: Salome DL
Email: sdion020@uottawa.ca
Username: sdion020
Password: *****

SELECT A CLINIC

BACK

Select Clinic (for profile)

WalkInClinic

Select a Walk-In Clinic:

Rainbow
Address: jireodk, Monday to Friday: 5 - 18, Saturday/Sunday: 8 - 17, Rating: 0.0

Bleh
Address: 6, Monday to Friday: 6 - 6, Saturday/Sunday: 6 - 6, Rating: 0.0

bb
Address: 21 Jump Street, Monday to Friday: 9 - 13, Saturday/Sunday: 9 - 13, Rating: 0.0

BACK

Employee Profile (after clinic)

WalkInClinic

Profile

Name: Salome DL
Email: sdion020@uottawa.ca
Username: sdion020
Password: *****
Clinic: Rainbow

BACK

View Clinic Profile

WalkInClinic

Clinic

Name : Rainbow
Clinic Hours : Monday to Friday: 5-18, Saturday/Sunday: 8-17
Address : jireodk
Phone Number : 837452333
Payment methods accepted : Credit, eTransfer
Insurances accepted : Public

VIEW SERVICES

EDIT PROFILE

BACK

Edit Clinic Profile

WalkInClinic

Rainbow

Enter Name

Opening Hour (Monday to Friday) (from 0 to 24)

Closing Hour (Monday to Friday) (from 0 to 24)

Opening Hour (Saturday/Sunday) (from 0 to 24)

Closing Hour (Saturday/Sunday) (from 0 to 24)

Enter Address

Enter Phone Number

Please select the insurances accepted
☐ Public ☐ Private

Please select the payment methods accepted
☐ Debit ☐ Credit ☐ PayPal
☐ Cash ☐ eTransfer ☐ Checks

SUBMIT

CANCEL

View Services

WalkInClinic

Available Services at the Clinic

Surgery

Staff: Doctor, Rate: 2

wowza

Staff: Doctor, Rate: 4

FixMyGrades

Staff: Doctor, Rate: 0

tjf

Staff: Doctor, Rate: 5

ADD NEW SERVICE

BACK

Add Services

WalkInClinic

Available Services at the Clinic

Surgery

Staff: Doctor, Rate: 2

wowza

Staff: Doctor, Rate: 4

FixMyGrades

Staff: Doctor, Rate: 0

tjf

Staff: Doctor, Rate: 5

ADD NEW SERVICE

BACK

Select a Service:

Surgery

Staff: Doctor

Blah

Staff: Other

tjf

Staff: Doctor

Test Service482

Staff: Nurse

AAA

Staff: Other

Cool

CANCEL

Add Rating / Delete Service

WalkInClinic

Available Services at the Clinic

Surgery

Staff: Doctor, Rate: 2

wowza

Staff: Doctor, Rate: 4

FixMyGrades

Staff: Doctor, Rate: 0

tjf

Staff: Doctor, Rate: 5

ADD NEW SERVICE

BACK

wowza

Enter a rate (from 1 to 5)

SUBMIT

DELETE

CANCEL

Employee Hours

WalkInClinic

My Hours

Monday Hours : 0.0 : 0.0

0.00

--

24:00

SET

Tuesday Hours : 0.0 : 0.0

0.00

--

24:00

SET

Wednesday Hours : 0.0 : 0.0

0.00

--

24:00

SET

Thursday Hours : 0.0 : 0.0

0.00

--

24:00

SET

Friday Hours : 0.0 : 0.0

0.00

--

24:00

SET

Saturday Hours : 0.0 : 0.0

0.00

--

24:00

SET

Sunday Hours : 0.0 : 0.0

0.00

--

24:00

SET

BACK

Patient

Patient Welcome

WalkInClinic

Welcome Alexandra!
You're logged in as an
patient.

MY PROFILE

MY APPOINTMENTS

SEARCH FOR CLINIC

SEARCH FOR CLINIC BY SERVICE

VIEW ALL CLINICS

LOG OFF

Patient Profile

WalkInClinic

My Profile

Name: Alexandra Sklokin
Email: asklo016@uottawa.ca
Username: asklo016
Password: *****

BACK

Patient Appointments

WalkInClinic

My Appointments:

28/10/2019 - 5:00
Service : Surgery, Clinic : Rainbow

28/10/2019 - 6:00
Service : Test Service482, Clinic : Bleh

BACK

Search Clinic by Values

WalkInClinic

Fill in some/all of the following search criteria:

Clinic Name: Rainbow

Clinic Address:

Time: 8

Day: ☒ Weekday ☐ Weekend

SEARCH

CANCEL

Search Clinic by Service

WalkInClinic

Search by Service

Selected Service : Surgery

SELECT A SERVICE

SEARCH A CLINIC

BACK

Select a Service (for search)

WalkInClinic

Select a Service:

Surgery
Staff: Doctor

Blah
Staff: Other

Test Service482
Staff: Nurse

AAA
Staff: Other

Cool
Staff: Nurse

Search Test

CANCEL

Filtered Clinic List

WalkInClinic

Select a Walk-In Clinic:

Rainbow
Address: jireodk, Monday to Friday: 5 - 18,
Saturday/Sunday: 8 - 17, Rating: 0.0

BACK

All Clinic List

WalkInClinic

Select a Walk-In Clinic:

Rainbow
Address: jireodk, Monday to Friday: 5 - 18,
Saturday/Sunday: 8 - 17, Rating: 0.0

Bleh
Address: 6, Monday to Friday: 6 - 6, Saturday/
Sunday: 6 - 6, Rating: 0.0

bb
Address: 21 Jump Street, Monday to Friday: 9 -
13, Saturday/Sunday: 9 - 13, Rating: 0.0

BACK

Clinic Profile

WalkInClinic

Clinic

Name : Rainbow
Clinic Hours : Monday to Friday: 5-18,
Saturday/Sunday: 8-17
Address : jireodk
Phone Number : 837452333
Payment methods accepted : Credit,
eTransfer
Insurances accepted : Public

VIEW REVIEWS

RATE THIS CLINIC

BOOK AN APPOINTEMENT

BACK

View Reviews

WalkInClinic

Past Reviews:

It was ok.
Rating: 3
Username: asklo016

It was pretty good!
Rating: 4
Username: asklo016

Love the staff!
Rating: 5
Username: asklo016

Aloha
Rating: 2
Username: asklo016

BACK

Rate Clinic

WalkInClinic

Leave a review:

Comment:

Rate: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

SUBMIT

CANCEL

Book Appointment

WalkInClinic

Fill in all of the following information:

Clinic : Rainbow
Username : asklo016
Date: 28/10/2019
Waiting time: 15 minutes
Anticipated Appointment Start Time : 5:15

SELECT A SERVICE

SUBMIT REQUEST

CANCEL

Select Service (for booking)

WalkInClinic

Select a Service:

Search Test
Staff: Other

Surgery
Staff: Doctor

AAA
Staff: Other

CANCEL

Lessons Learned

Salomé	<p>I did not know a thing about how to create an application before the course. I worked on the front end as well as the backend and I now know my way around Android Studio as I created a big part of the project. I gained a lot of experience coding the backend and especially working with Firebase, which can be tricky and exasperating from time to time, but is super useful. I think I could remove any bug caused by Firebase since I spent a lot of time doing it for the project and I also handle a lot of different bugs. It has been really great to create the application and I am now confident that I could do it again for another project like this one.</p>
Alexandra	<p>Having no previous knowledge of application creation, I gained significant experience in backend (java) and UI (xml) development. I have learned how to use a combination of domain and implementation classes, to create a complete and easy-to-use program. I found effective ways to search for and fix bugs, so that the program would work according to expectations. In my opinion, my most significant learning experience came from using git and github, to simultaneously cooperate with others on development.</p>
Matt	<p>I was exposed to unit and application-specific testing through Espresso, which is what I'll be doing next semester as part of a work term, so that was good preparation. It was also great exposure to a (relatively) large scale application, larger than simple java programs. This will be useful when working within larger organizations. The need to respect deadlines and deliverables was also a good learning experience for real-life software projects, where I'll also be learning quite a bit on the job. Finally, I've never taken a database course but after having set up and used Firebase this whole project I'm more confident about my abilities to excel in that course and use them in the real world.</p>
Arman	<p>The most valuable lessons I learned throughout this project were: First and foremost, mastering git and synchronizing my progress on the project with my teammates' progress, taught me the gist of today's software version control methods and proper teamwork in software projects. In addition to version control, I quickly learned to pick up android studio, despite never have had worked with it before, and learned how to utilize the UI design, online cloud database sync, offline database storage and other backend utilities such as button functionalities and so on. Third, working with Java's test unit capability was something new to me because I never had to develop test cases for my other projects and used to do them manually. Eventually I got the hang of Java's JUnit library and managed to write multiple test cases for our project, by incorporating the Espresso utilities as well.</p>