SEG2105 - Fall 2019
Walk-In Clinic - Group 2

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Matthew Tran
Arman Kompany Zare

Final Project Report

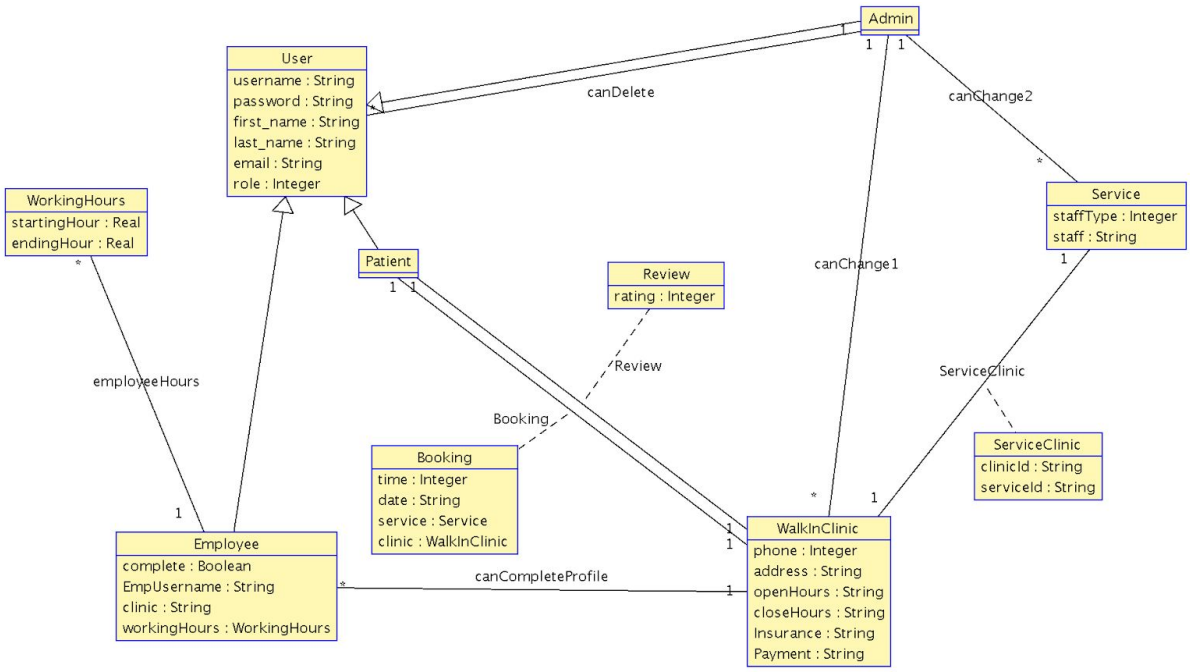
Introduction

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

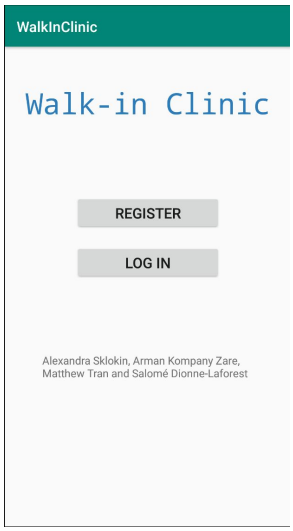
Deliverable	*Who*	*What*	*Description*
1	Alexandra	UI	Design of UI, and Activity navigation
	Salomé		
	Matt	Firebase	Create firebase, and connect to application
	Matt	UML	Create UML diagram (UMPLE)
	Matt	Backend	Login/Register functionality ; Domain model classes
	Arman		
	Arman	Submission	Submit APK, 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

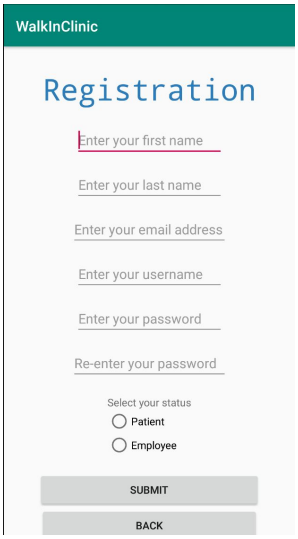
Screenshots

General

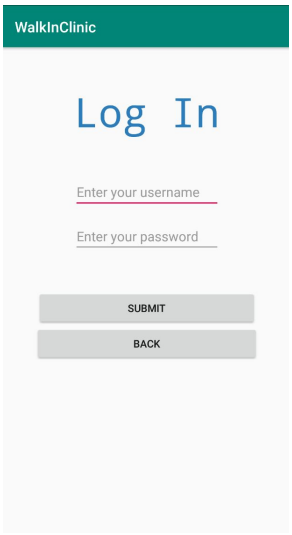
Main



Registration

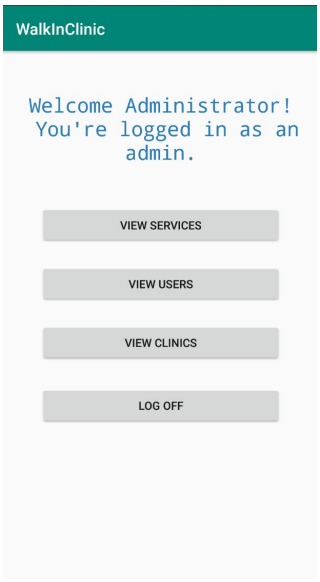


Login

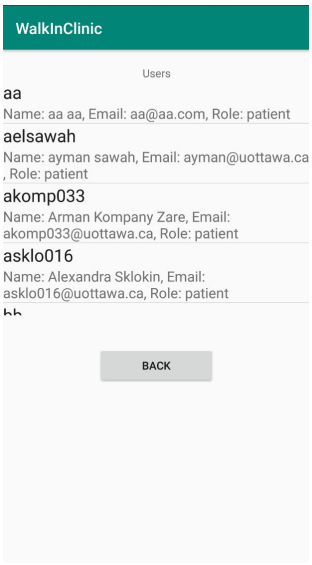


Administrator

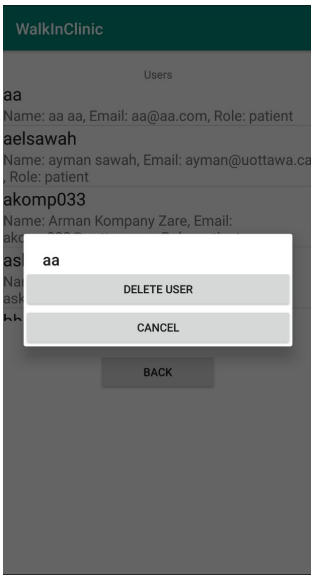
Welcome Page



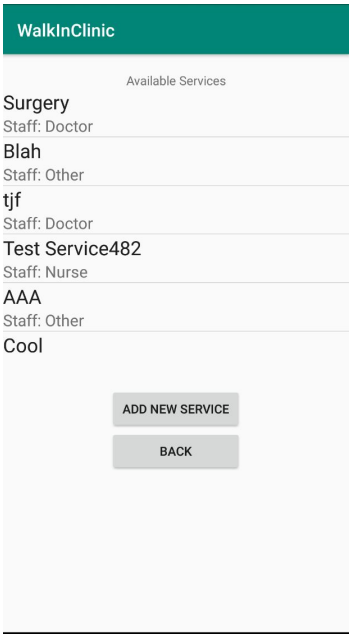
View Users



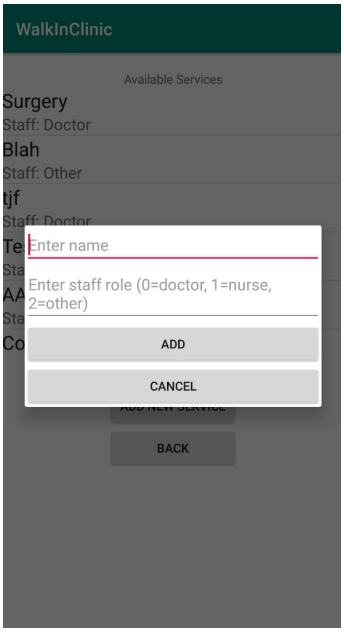
Delete Users



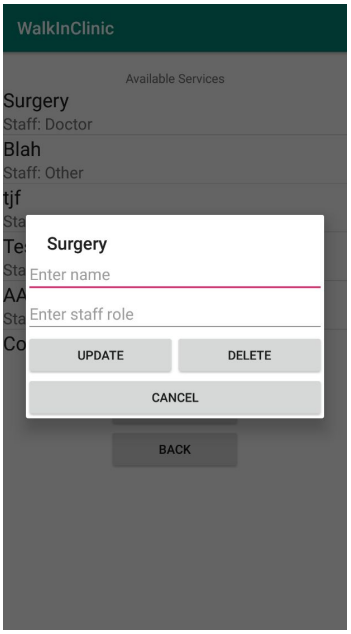
View Services



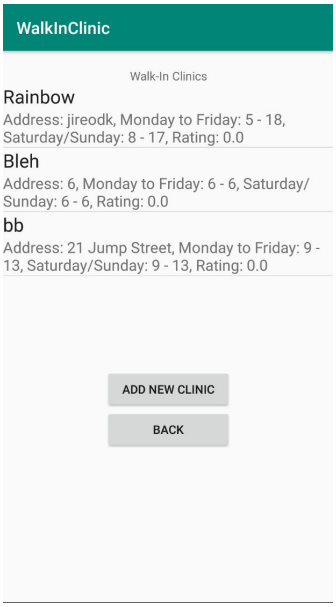
Add Service



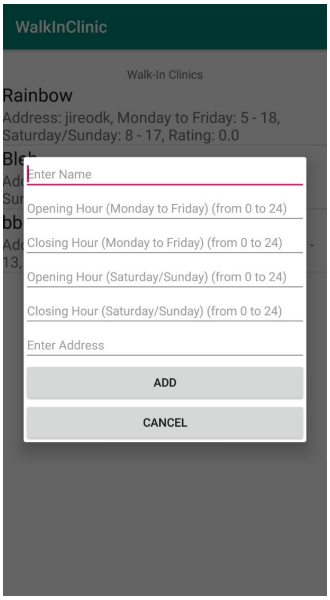
Update/Delete Service



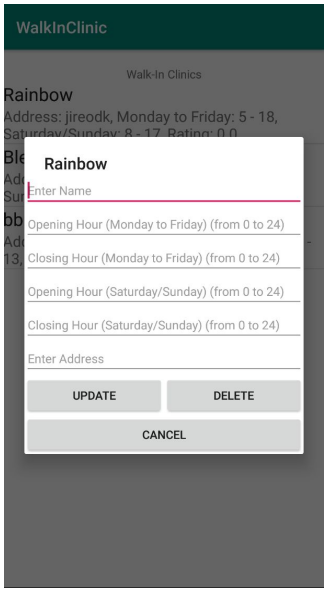
View Clinics



Add Clinic

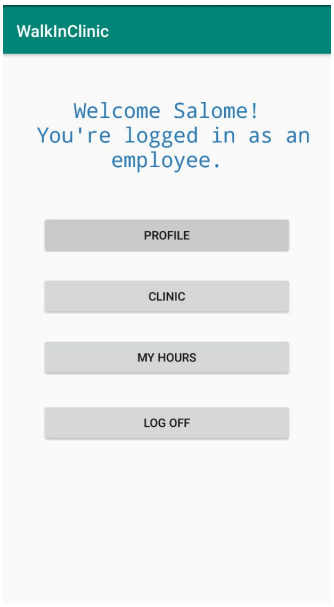


Update/Delete Clinic

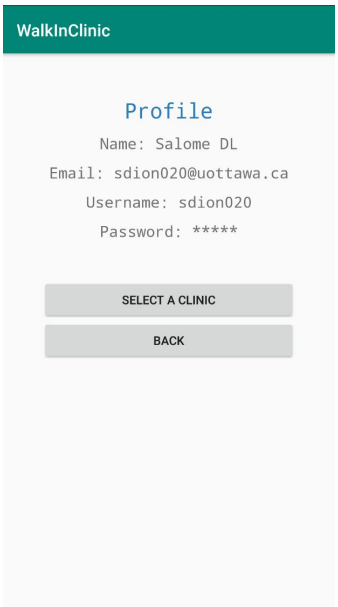


Employee

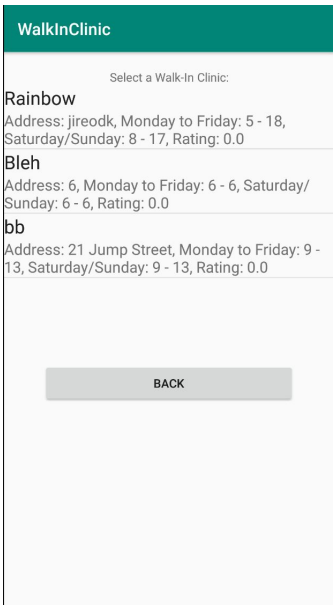
Welcome Page



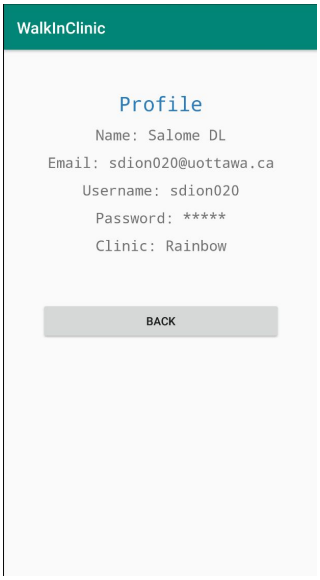
Employee Profile (before clinic)



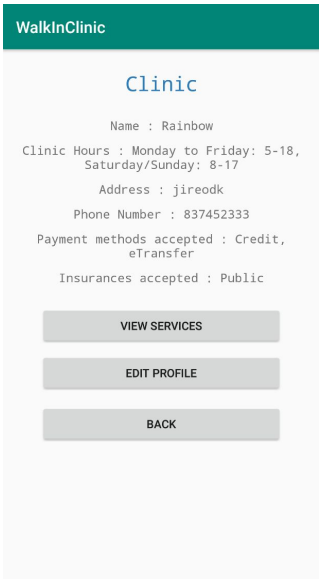
Select Clinic (for profile)



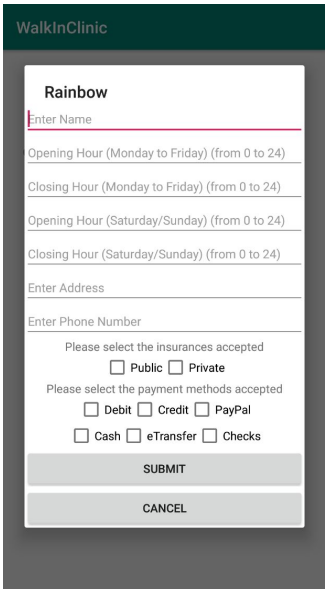
Employee Profile (after clinic)



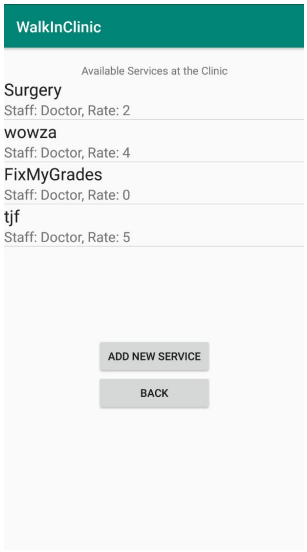
View Clinic Profile



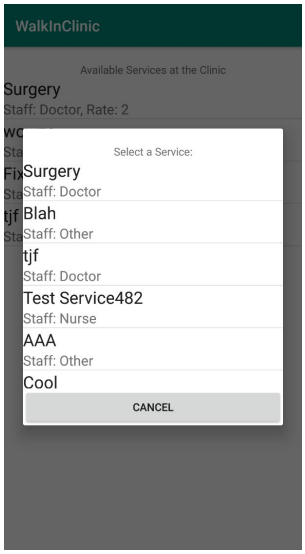
Edit Clinic Profile



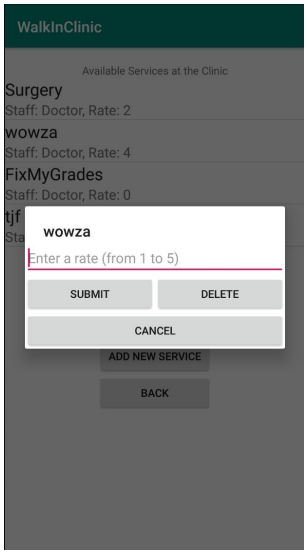
View Services



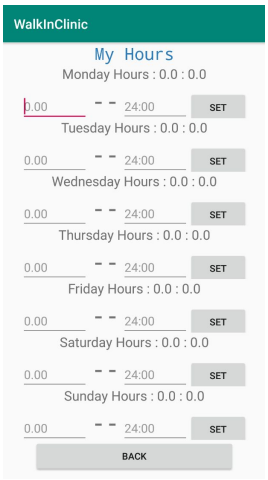
Add Services



Add Rating / Delete Service

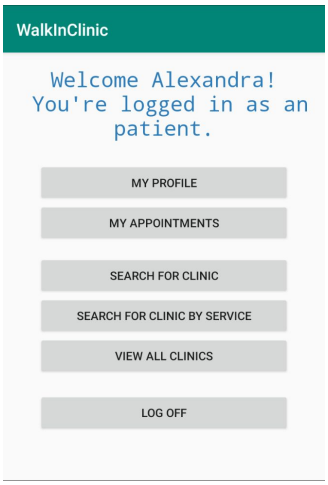


Employee Hours

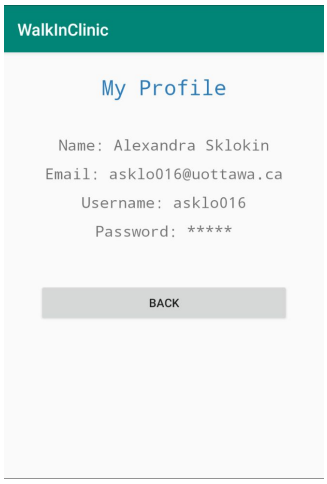


Patient

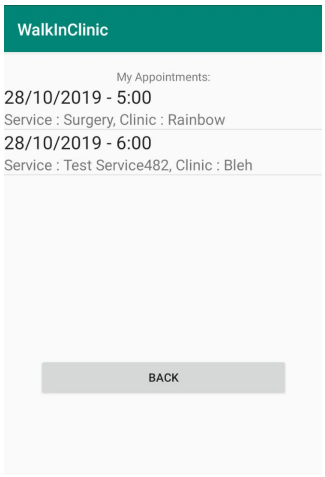
Patient Welcome



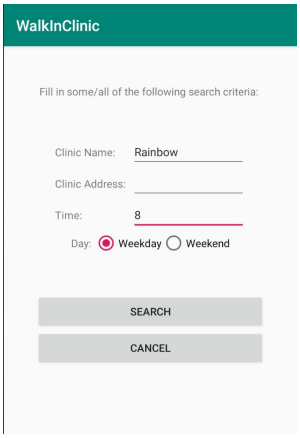
Patient Profile



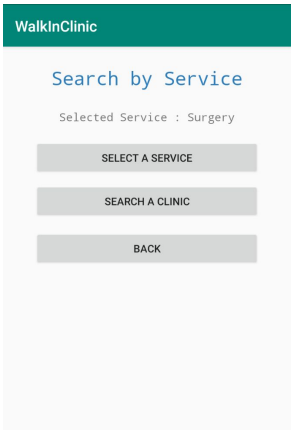
Patient Appointments



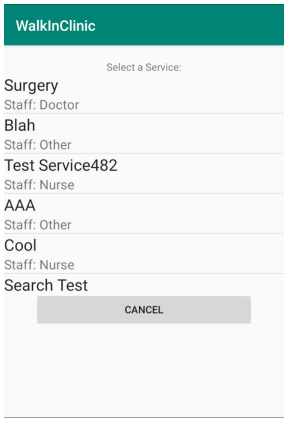
Search Clinic by Values



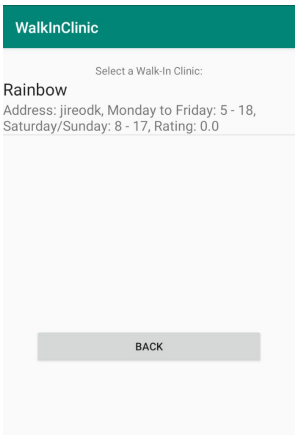
Search Clinic by Service



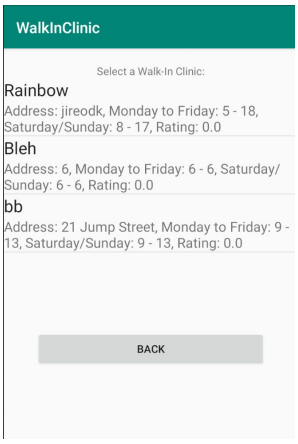
Select a Service (for search)



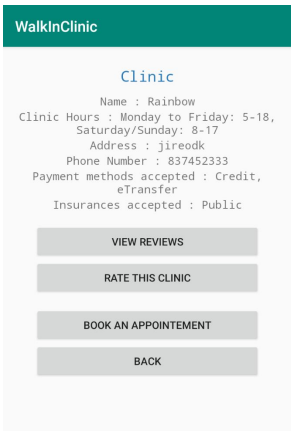
Filtered Clinic List



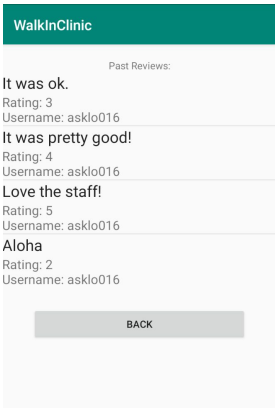
All Clinic List



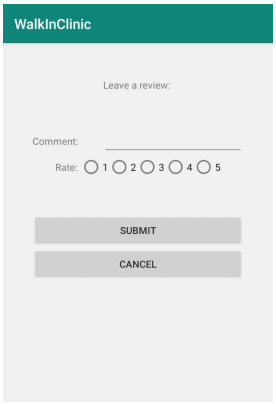
Clinic Profile



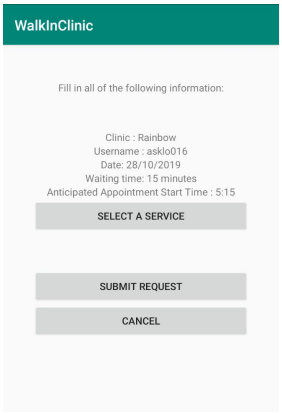
View Reviews



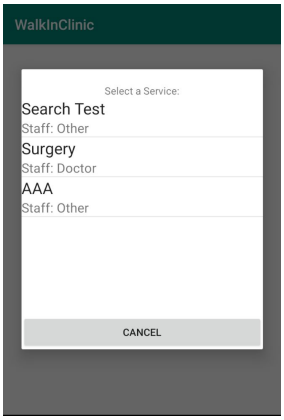
Rate Clinic



Book Appointment



Select Service (for booking)



Lessons Learned

Salomé	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.
Alexandra	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.
Matt	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.
Arman	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.