DocAppoint

SEG 2105 - Introduction To Software Engineering

Fall 2023

University of Ottawa

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Teaching Assistants: Hassan

Group 21

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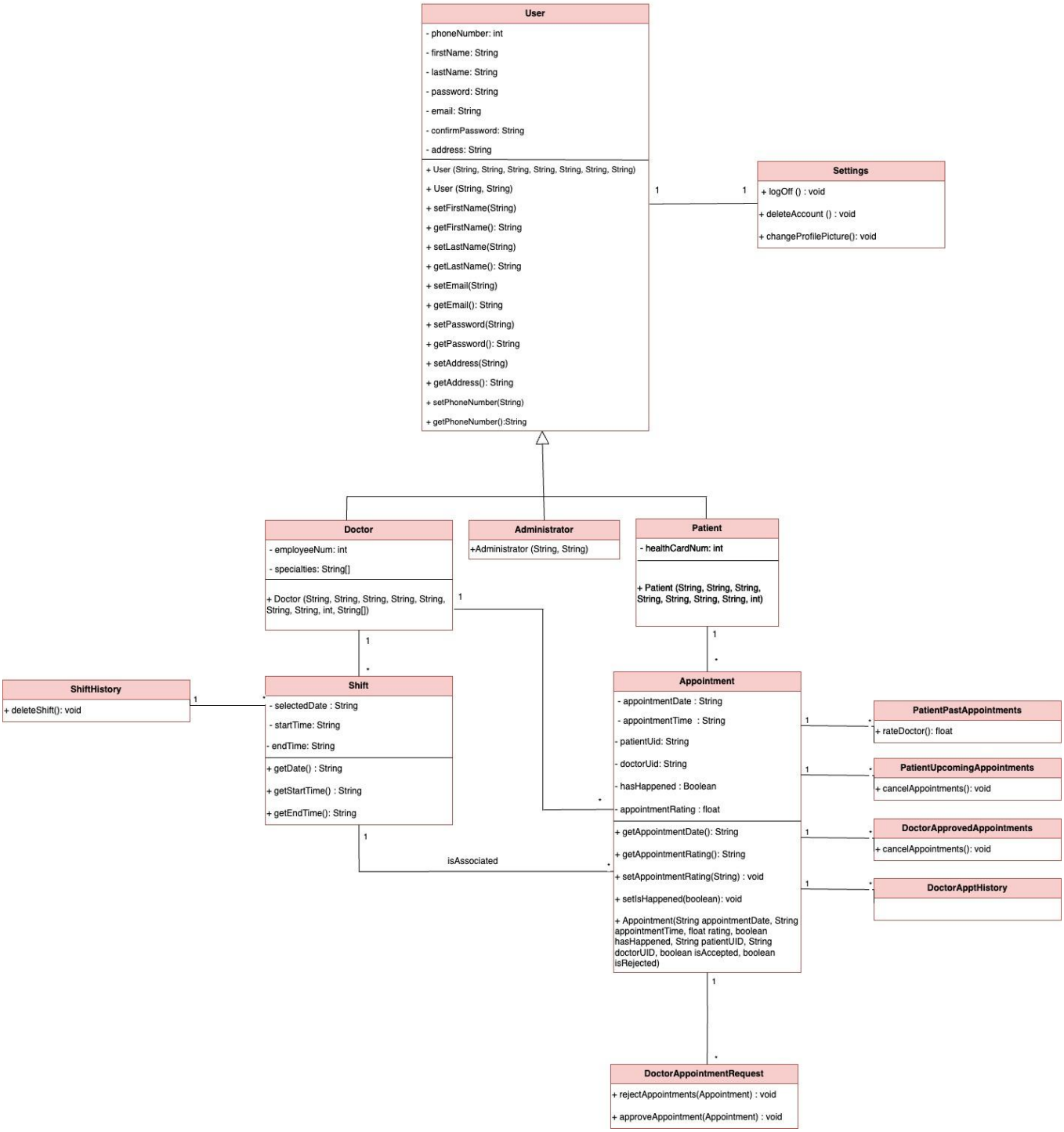
Submission Date: Saturday December 4th, 2023

Introduction

This project showcases a Healthcare Appointment Management System for a telehealth clinic. The name of our application is DocAppoint, for which we also designed a logo seen on all of the pages of our app. There are three types of users for DocAppoint: administrators, doctors and patients. The administrator has the responsibility of approving account creation requests of doctors and patients. To make this decision, they can view the potential patient or doctor's information. When signing up, the doctor has the ability to choose specialties. Some of their main abilities include, viewing, approving and rejecting pending appointment requests from patients, view upcoming appointments, and cancel appointments. The doctor can also set and remove shifts. The shifts can only be selected in increments of 30 minutes. The patients are able to book appointments (only in 30-minute increments) with their doctors by searching for their specialty. Patients can view past and upcoming appointments, and can rate doctors with whom they've had an appointment with on a scale up to 4 stars. The stars go up in increments of 0.5. Some extra features we added on top of the required features include a large focus on a user-friendly UI, a settings page, a delete account button and the ability to add a profile picture.

UML class diagram

Deliverable 4: UML Diagram

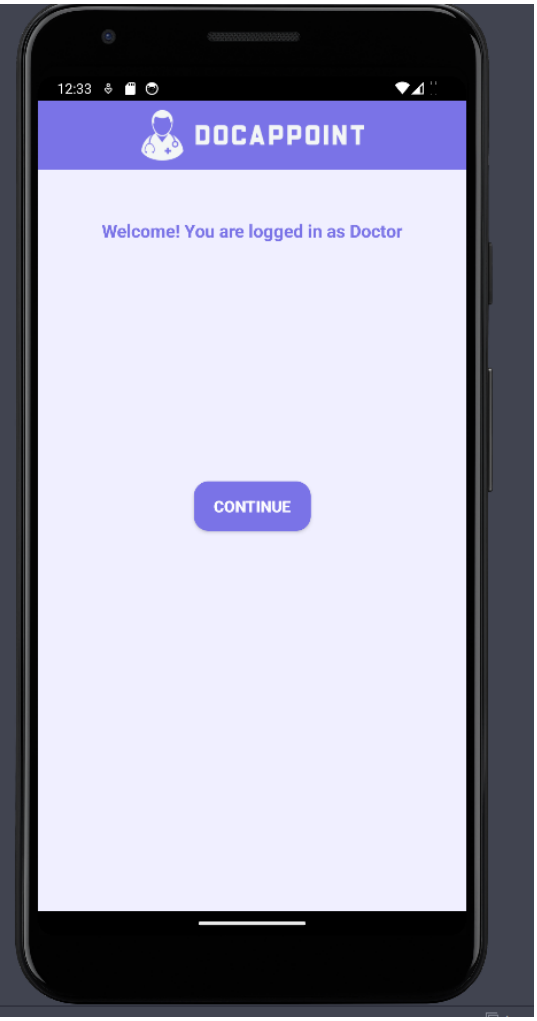


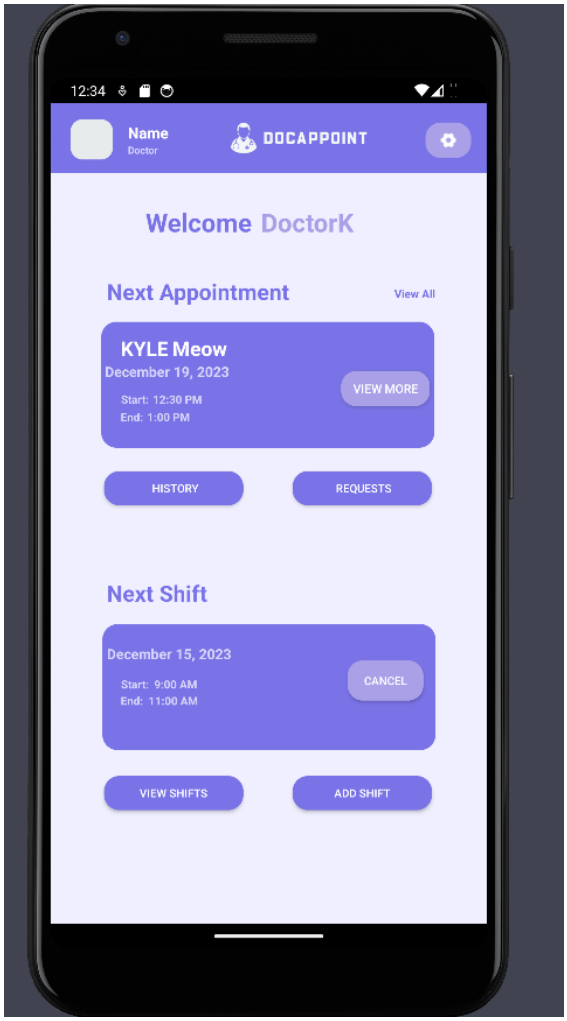
Contributions of team members for each deliverable

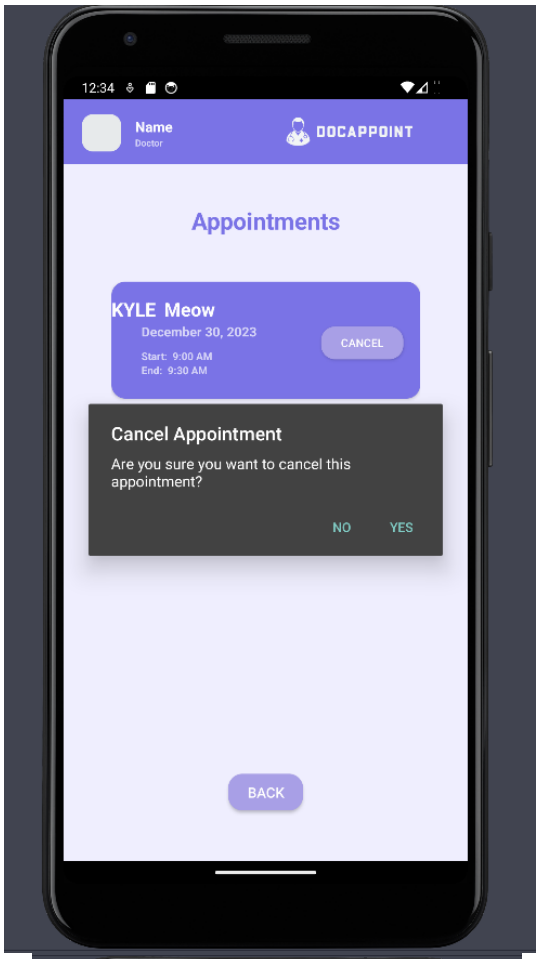
Name	Deliverable 1	Deliverable 2	Deliverable 3	Deliverable 4
Kyle	- UML - Patient, Doctor and Administrators - Welcome Screen with roles - Log off - All fields are validated (login page) - Bonus	- Registration stored in firebase - Admin can view requests - Approve and reject user accounts - Approved users are visible - Admin can re-approve rejected users - Redirect to proper page during account processing	- Can view past appointments - Cancel previously approved - View information of each appointment - Add new shifts	- UML - View upcoming appointments - View Past Appointments - Cancel upcoming appointments (before 60 min) - 4 Unit Tests
Nahiyan	- UI for all screens	- UML - UI for all screens	- UI for all screens - Add new shifts	- UML - UI for all screens - Profile picture feature
Max	- Create logo	- Delete account	- UML	- 4 Unit Tests
Bob	- Settings UI	- Approve and reject user accounts - Rejected users are visible in a list - See the previously rejected users	- UML - Add new shifts - Shift conflicts - Doctor can delete shifts	- UML - Shift can not be deleted if associated with appointments

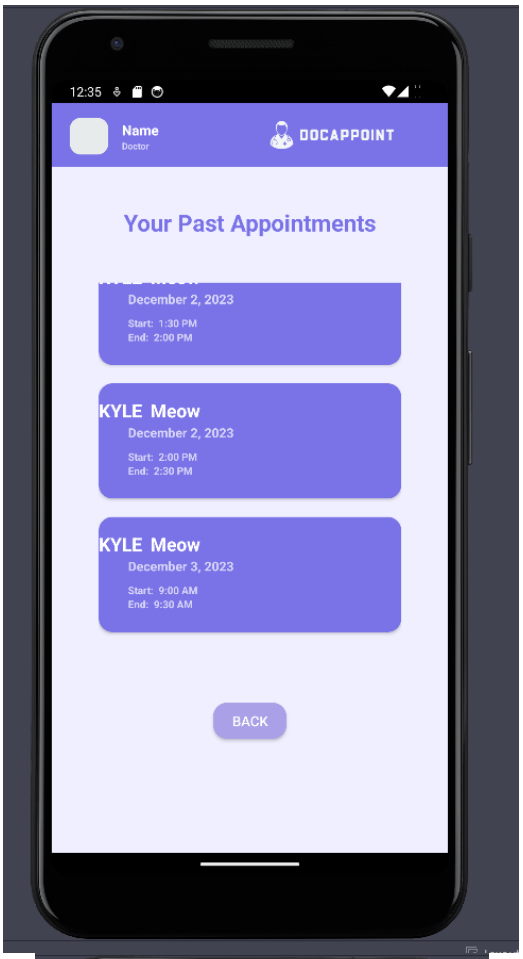
Arun	- All fields are validated (account registration)	- Admin can view requests	- Auto Accept - Can view past appointments - Can approve and reject appointments - Can view upcoming appointments	- UML - Search for doctors (speciality) - Booked time slots not listed - Search for doctors (name)

Screenshots of application

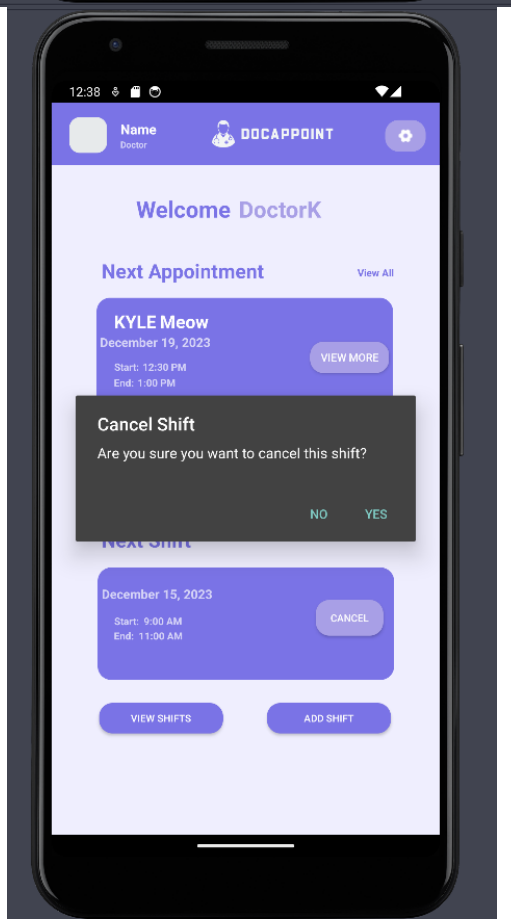


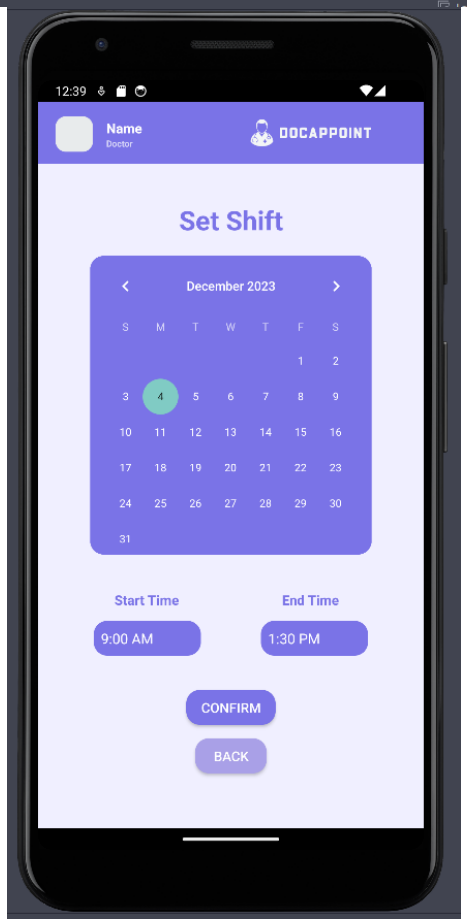


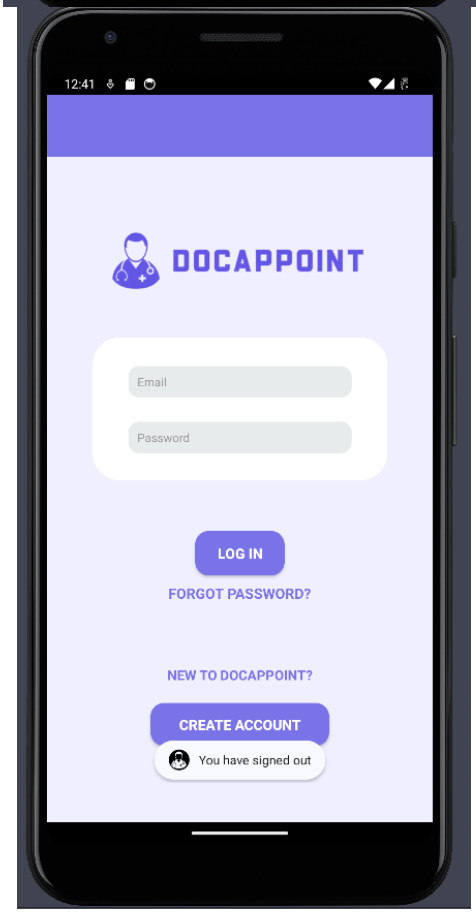

12:34
Name
Doctor
DOCAPPOINT
Appointments
KYLE Meow
December 30, 2023
Start: 9:00 AM
End: 9:30 AM
CANCEL
Cancel Appointment
Are you sure you want to cancel this appointment?
NO
YES
BACK

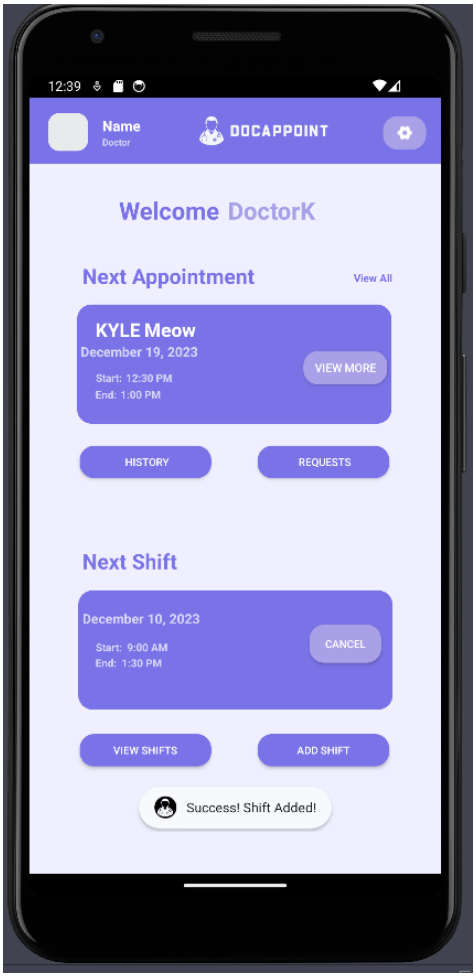

12:35
Name
Doctor
DOCAPPOINT
Your Past Appointments
December 2, 2023
Start: 1:30 PM
End: 2:00 PM
KYLE Meow
December 2, 2023
Start: 2:00 PM
End: 2:30 PM
KYLE Meow
December 3, 2023
Start: 9:00 AM
End: 9:30 AM
BACK

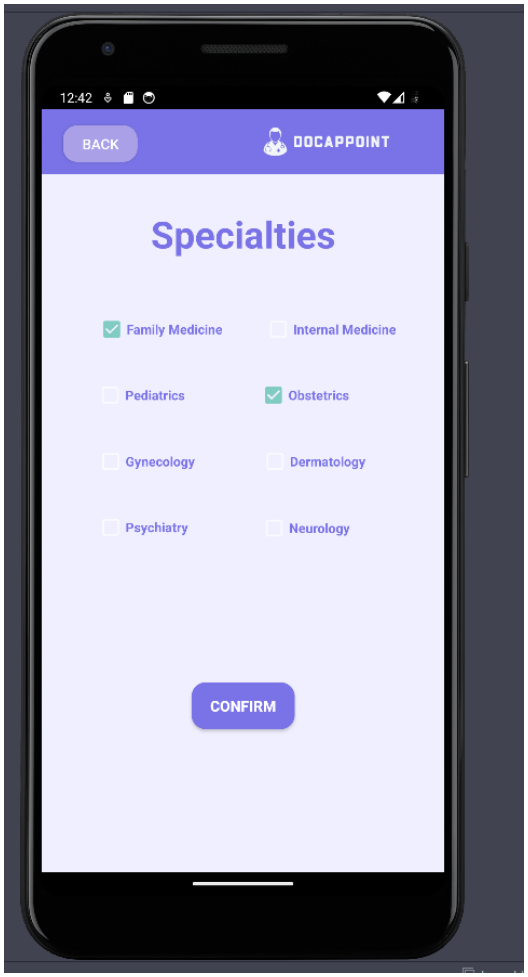

12:38
Name
Doctor
DOCAPPOINT
Your Shifts
December 20, 2023
Start: 9:00 AM
End: 2:30 PM
CANCEL
December 15, 2023
Start: 9:00 AM
End: 11:00 AM
CANCEL
ADD SHIFT
BACK

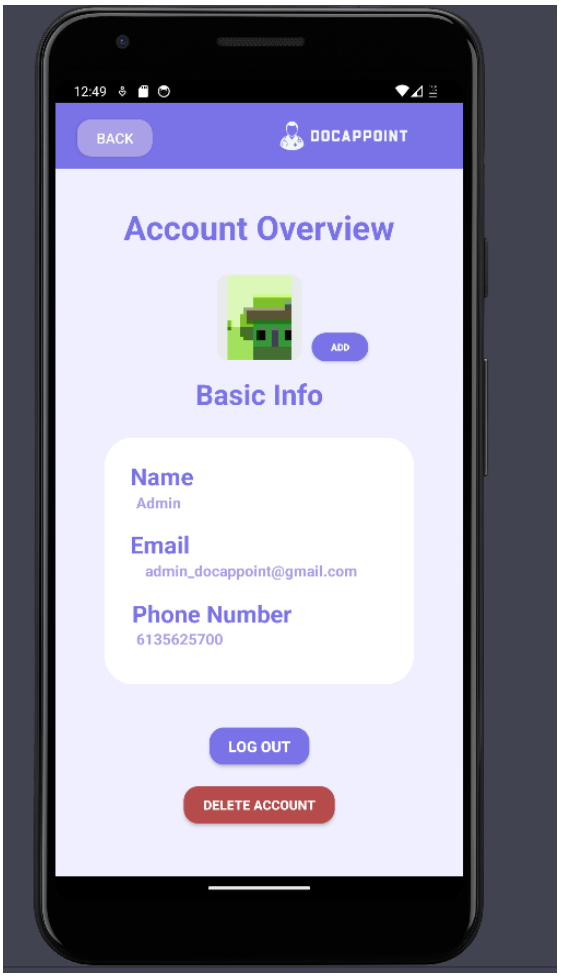

12:38
Name
Doctor
DOCAPPOINT
Welcome DoctorK
Next Appointment
View All
KYLE Meow
December 19, 2023
Start: 12:30 PM
End: 1:00 PM
VIEW MORE
Cancel Shift
Are you sure you want to cancel this shift?
NO
YES
December 15, 2023
Start: 9:00 AM
End: 11:00 AM
CANCEL
VIEW SHIFTS
ADD SHIFT

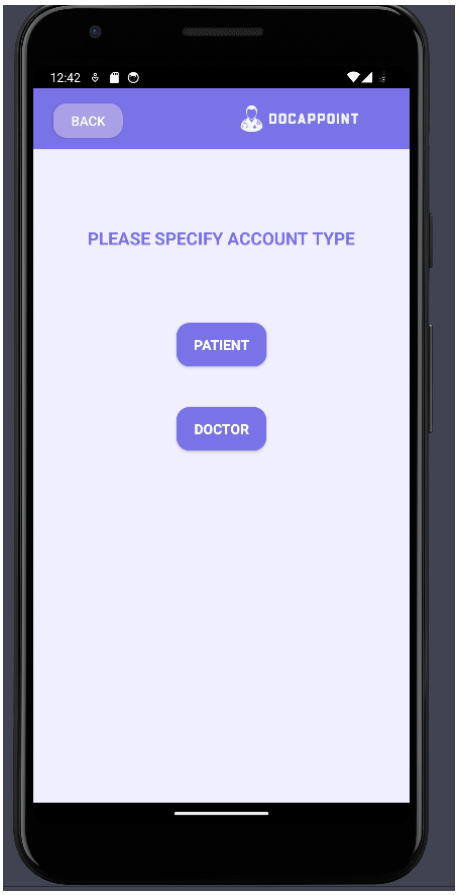

12:39
Name
Doctor
DOCAPPOINT
Set Shift
December 2023
S M T W T F S
1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
31
Start Time
End Time
9:00 AM
1:30 PM
CONFIRM
BACK

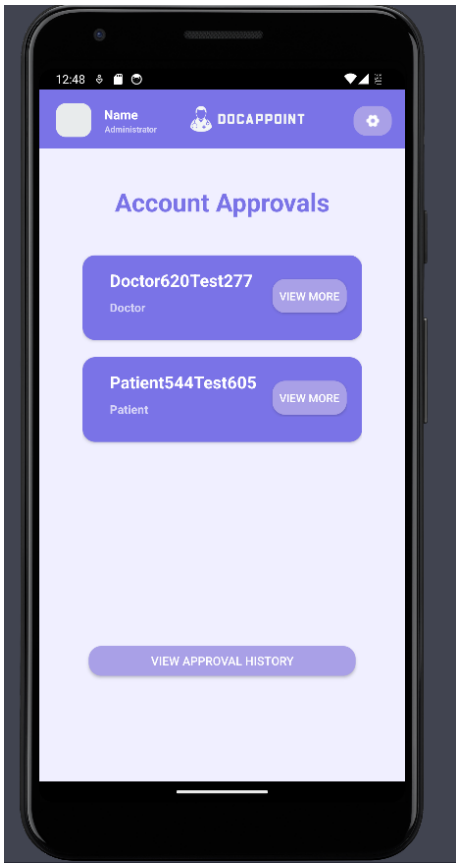

12:41
DOCAPPOINT
Email
Password
LOG IN
FORGOT PASSWORD?
NEW TO DOCAPPOINT?
CREATE ACCOUNT
You have signed out

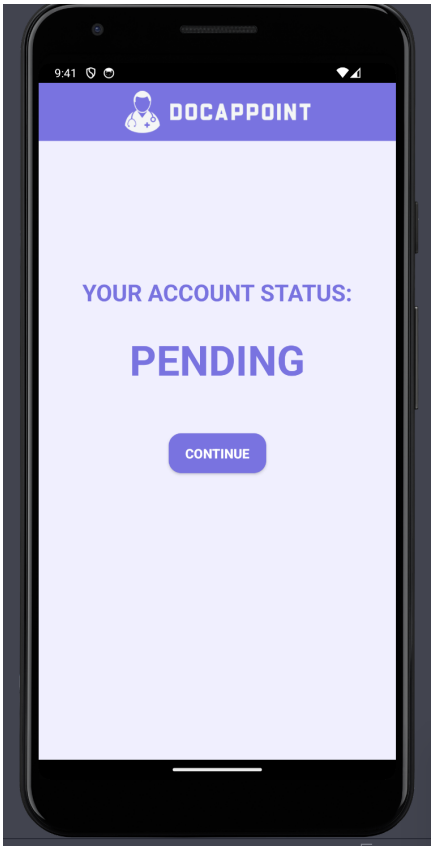

12:39
Name
Doctor
DOCAPPOINT
Welcome DoctorK
Next Appointment
View All
KYLE Meow
December 19, 2023
Start: 12:30 PM
End: 1:00 PM
VIEW MORE
HISTORY
REQUESTS
Next Shift
December 10, 2023
Start: 9:00 AM
End: 1:30 PM
CANCEL
VIEW SHIFTS
ADD SHIFT
Success! Shift Added!

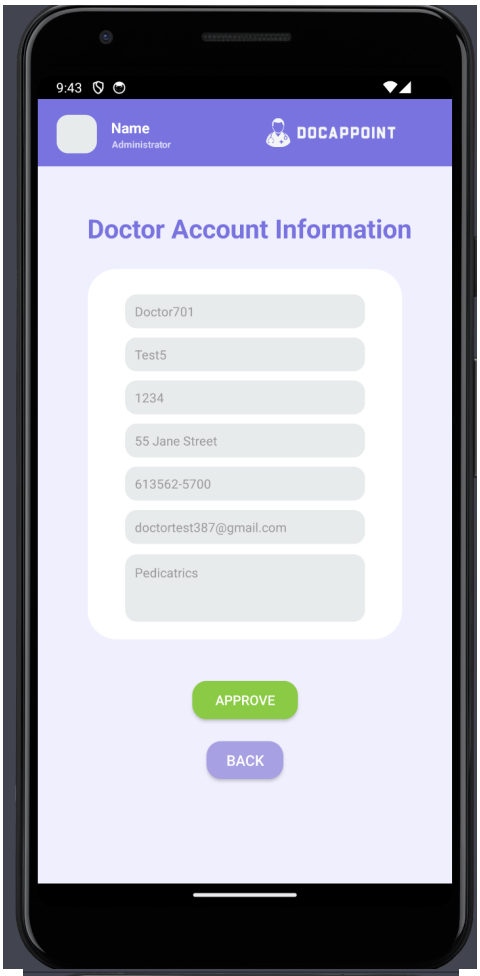

12:42
BACK
DOCAPPOINT
Specialties
Family Medicine
Internal Medicine
Pediatrics
Obstetrics
Gynecology
Dermatology
Psychiatry
Neurology
CONFIRM

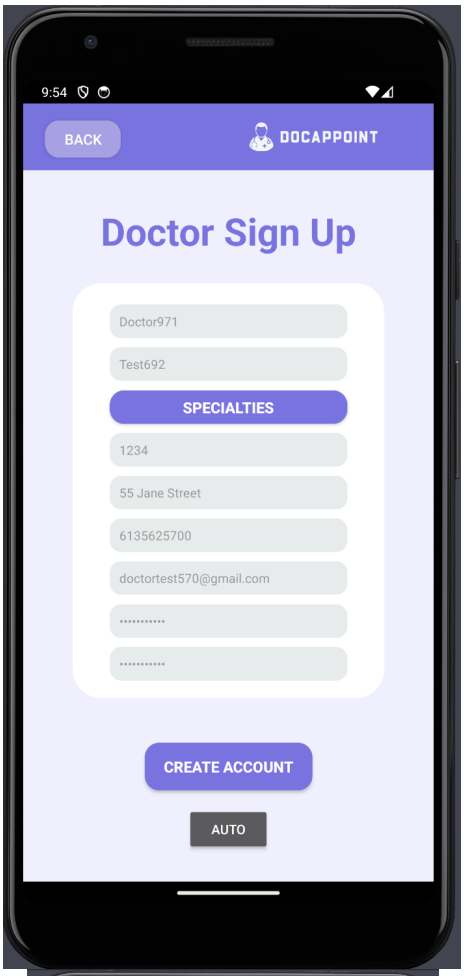

12:49
BACK
DOCAPPOINT
Account Overview
ADD
Basic Info
Name
Admin
Email
admin_docappoint@gmail.com
Phone Number
6135625700
LOG OUT
DELETE ACCOUNT

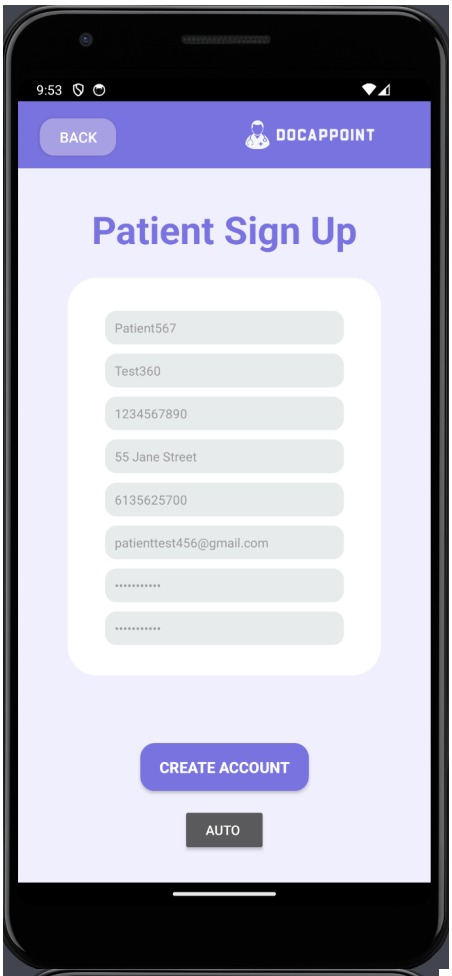

12:42
BACK
DOCAPPOINT
PLEASE SPECIFY ACCOUNT TYPE
PATIENT
DOCTOR

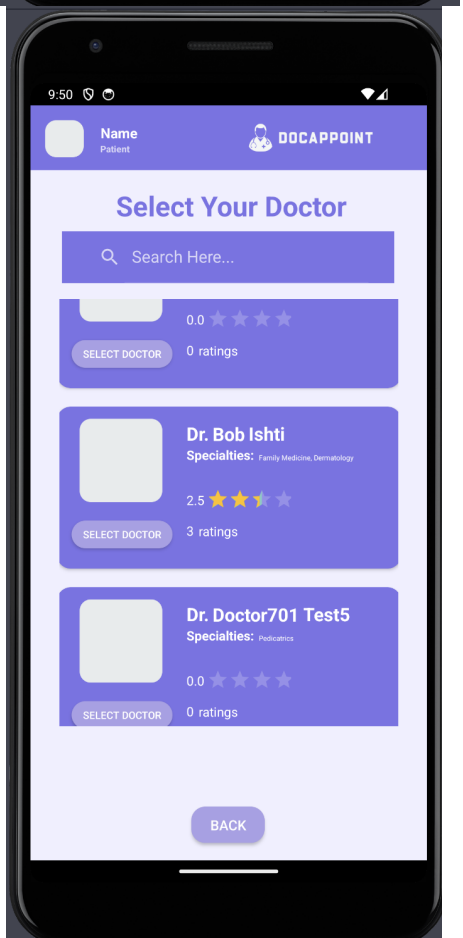

12:48
Name
Administrator
DOCAPPOINT
Account Approvals
Doctor620Test277
Doctor
VIEW MORE
Patient544Test605
Patient
VIEW MORE
VIEW APPROVAL HISTORY

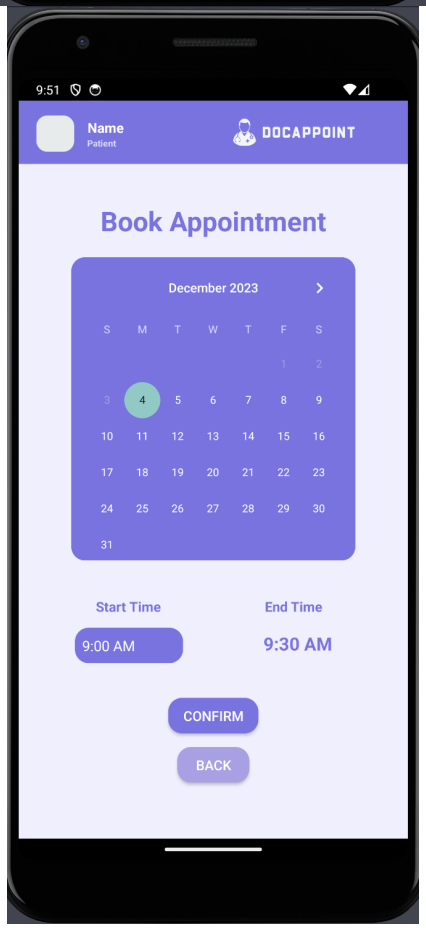

9:41
DOCAPPOINT
YOUR ACCOUNT STATUS:
PENDING
CONTINUE

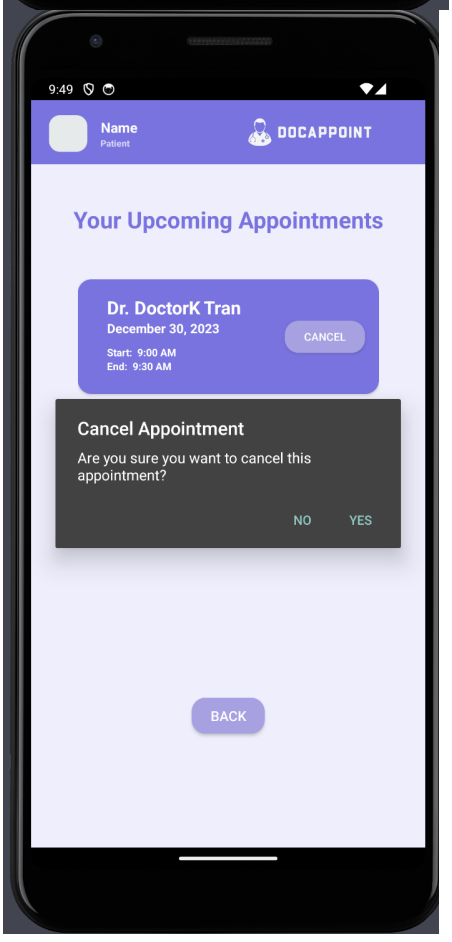

9:43
Name
Administrator
DOCAPPOINT
Doctor Account Information
Doctor701
Test5
1234
55 Jane Street
613562-5700
doctortest387@gmail.com
Pedicatrics
APPROVE
BACK

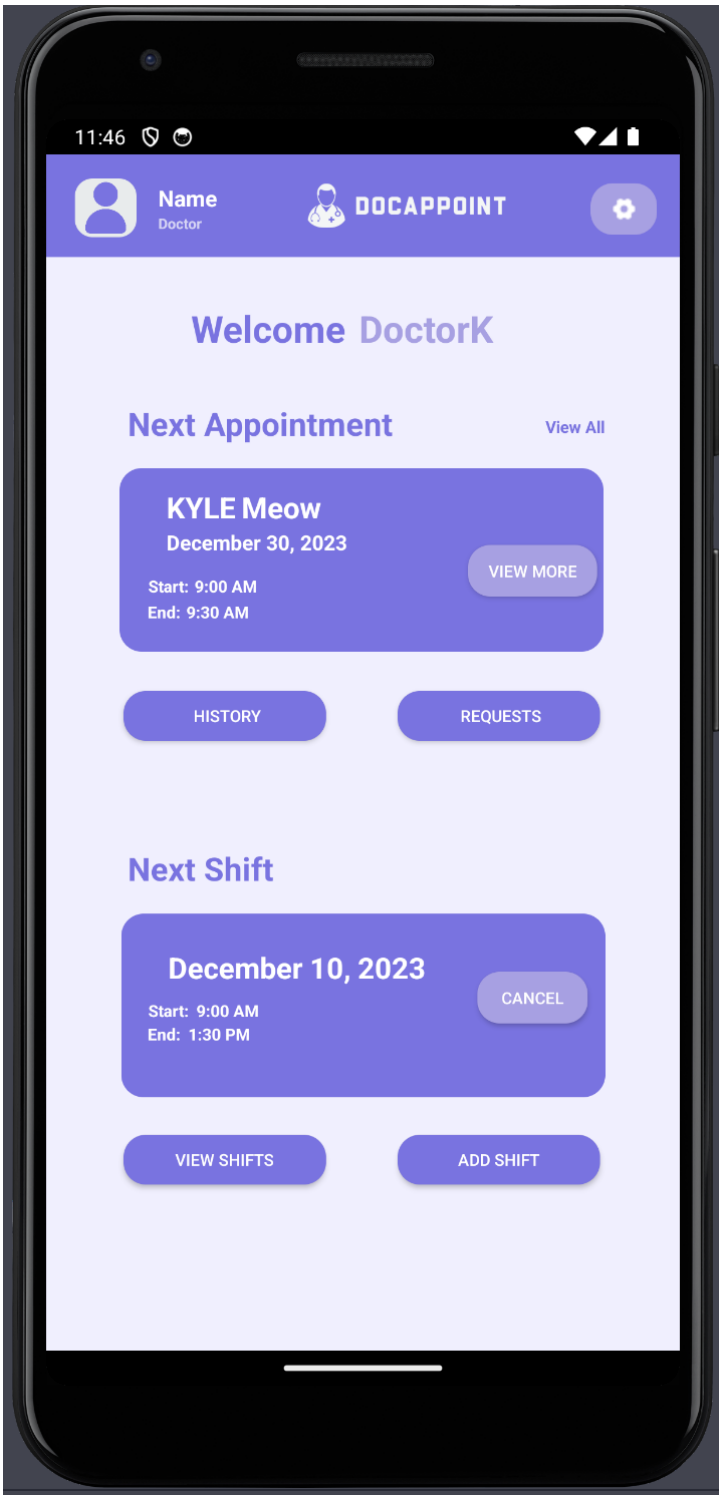

9:54
BACK
DOCAPPOINT
Doctor Sign Up
Doctor971
Test692
SPECIALTIES
1234
55 Jane Street
6135625700
doctortest570@gmail.com
CREATE ACCOUNT
AUTO

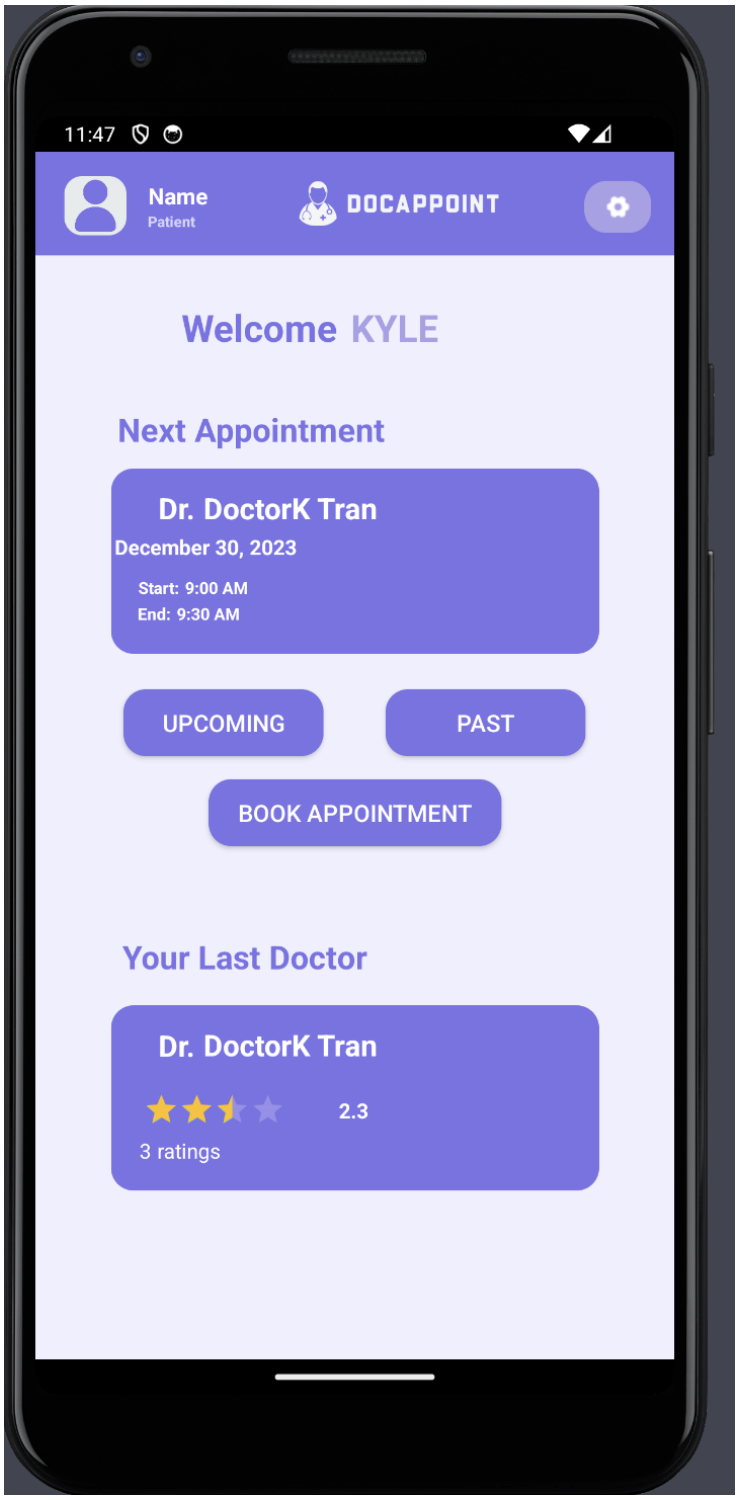

9:53
BACK
DOCAPPOINT
Patient Sign Up
Patient567
Test360
1234567890
55 Jane Street
6135625700
patienttest456@gmail.com
CREATE ACCOUNT
AUTO


9:50
Name
Patient
DOCAPPOINT
Select Your Doctor
Search Here...
0.0
SELECT DOCTOR
0 ratings
Dr. Bob Ishti
Specialties:
2.5
SELECT DOCTOR
3 ratings
Dr. Doctor701 Test5
Specialties:
0.0
SELECT DOCTOR
0 ratings
BACK


9:51
Name
Patient
DOCAPPOINT
Book Appointment
December 2023
S M T W T F S
Start Time
End Time
9:00 AM
9:30 AM
CONFIRM
BACK


9:49
Name
Patient
DOCAPPOINT
Your Upcoming Appointments
Dr. DoctorK Tran
December 30, 2023
Start: 9:00 AM
End: 9:30 AM
CANCEL
Cancel Appointment
Are you sure you want to cancel this appointment?
NO
YES
BACK


11:46
Name
Doctor
DOCAPPOINT
Welcome DoctorK
Next Appointment
View All
KYLE Meow
December 30, 2023
Start: 9:00 AM
End: 9:30 AM
VIEW MORE
HISTORY
REQUESTS
Next Shift
December 10, 2023
Start: 9:00 AM
End: 1:30 PM
CANCEL
VIEW SHIFTS
ADD SHIFT


11:47
Name
Patient
DOCAPPOINT
Welcome KYLE
Next Appointment
Dr. DoctorK Tran
December 30, 2023
Start: 9:00 AM
End: 9:30 AM
UPCOMING
PAST
BOOK APPOINTMENT
Your Last Doctor
Dr. DoctorK Tran
2.3
3 ratings

Lessons learned

One lesson learned while programming this assignment is that not a lot of coding is taught in class and it takes a whole lot of self-teaching to learn how to program things. For the purpose of this assignment, since we were not familiar with many of the functions of Android Studio, we initially had to search how to do a certain function (such as programming buttons to go to the next page). However, as we continued to learn new things about Android Studio, we started to use these online resources less frequently, leading to growth in the knowledge of group members. This was one of our strengths as a group and we will continue to use this method of learning and growth moving forward.

Another lesson we learned throughout the project is that it takes quite a bit of time to plan out what we want to see in the app and the implementation of the application. In some cases, we worked up to the last minute to implement features on our app for previous deliverables because we started later than we'd like to admit. We assumed that we would be able to attempt to implement a feature in an application in a certain amount of time, but it ended up taking a lot longer. One example was the implementation of the profile picture feature. It was estimated to take around half a day to get it to work, but in the end, it actually took almost a day and a half. These inaccurate estimations decreased the productivity of some group members, depending on how challenging their responsibilities were. For future projects, we will plan better to take into account potential hurdles we could face when coding.

Finally, we learned more in depth about team management and working in unison. When working on several parts of the app, we had to rely on other team members to complete their separate app functionality to integrate it to the next member's part. This led to having to finish a task within a specific time constraint and to distribute work to each group member based on their skill set/knowledge. This included taking self-initiative and communicating with each group member to coordinate each deliverable task.