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Deliverable 4 Final Report
Team Big Mood Central
SEG-2105 | Introduction to Software Engineering
Fall 2018

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Introduction

The objective of this project was to create a functional app that allows homeowners to connect with service providers with ease. The app would allow homeowners to search for, book, and rate services. Additionally, would allow service providers to add and delete services as well as select their availabilities. Finally, there would also be a role of an admin who is able to create and delete services.

The main purpose of this project is to allow us to take the theoretical knowledge we learn in class and apply it in a real-life situation. This app will be developed with Android Studio, a development environment used by professionals in the industry. This project will also allow us to practice working in a group. The group will be able to collaborate using Git and GitHub in order to work together on the same code.

Team Roles and Contributions

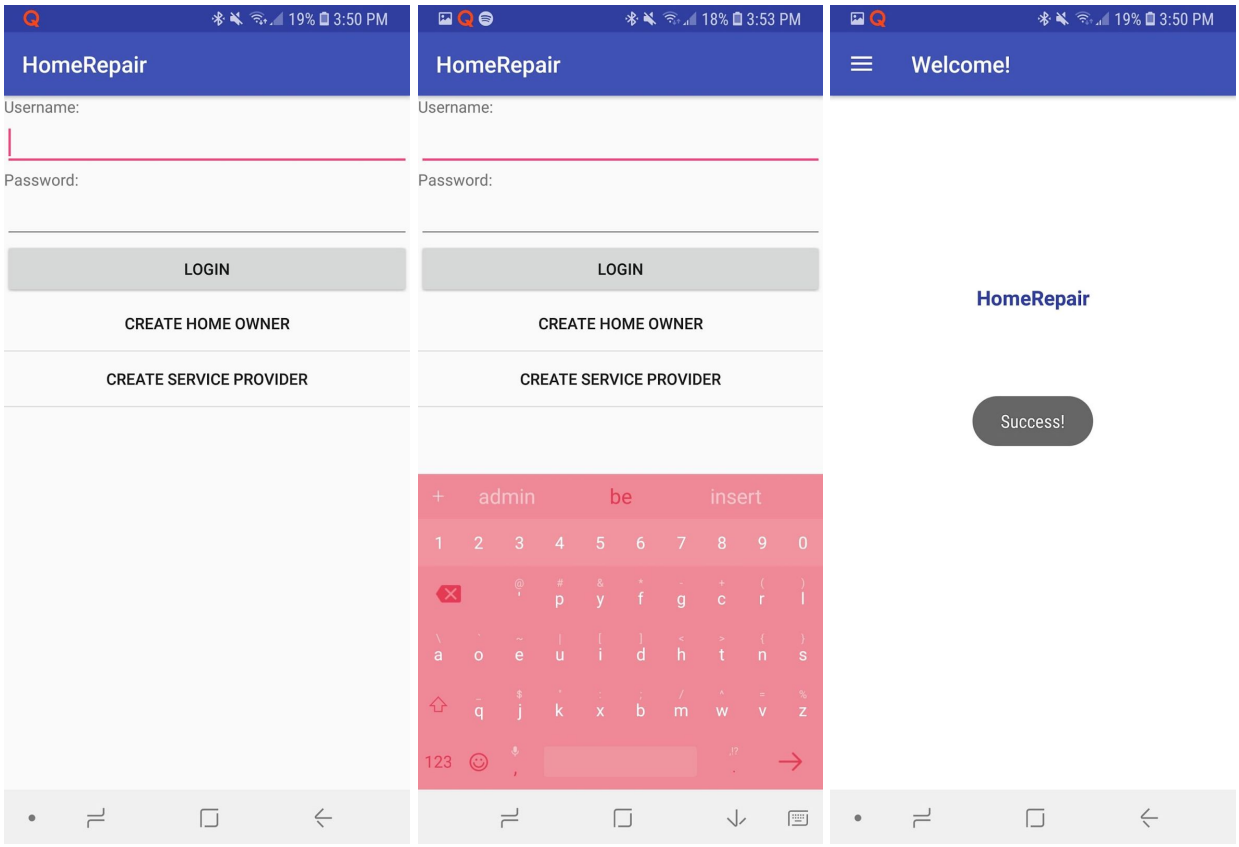
		Deliverable percentages %				
Team Member	Contributions	1	2	3	4	Total
Aden Li	● Service Provider navigation menu ● Firebase and all functionality of the availability page ● Timepicker ● Validation of Availability screen ● Login functionality ● Conversion of activities	30	30	30	30	30

	to fragments ● Creation of Github ● Validation of the login activity ● All spinners ● Main Activity ● Search functionality ● Booking functionality					
Rizvi Rab	● Modified many elements of the UI ● Created availability activity ● Tested app on multiple devices	13.3	13.3	13.3	13.3	13
Simon Walker **(Team Leader)**	● UML Diagram ● Service Provider Profile ● Welcome Activity ● Login Functionality ● Test Cases ● Final Report ● Main Activity ● My Account Menu ● Encrypting passwords in the database	13.3	13.3	13.3	13.3	13.3
Ulysses Vaughan	● Login screen and account creation ● Admin add and remove service functionality ● Service provider add and remove service functionality ● Firebase integration for all of the above and Service Provider profile ● Edited and revised code	30	30	30	30	30
Sana Zahid	● UML Diagrams ● Final report ● Test Cases ● Circle CI	13.3	13.3	13.3	13.3	13

App Screenshots

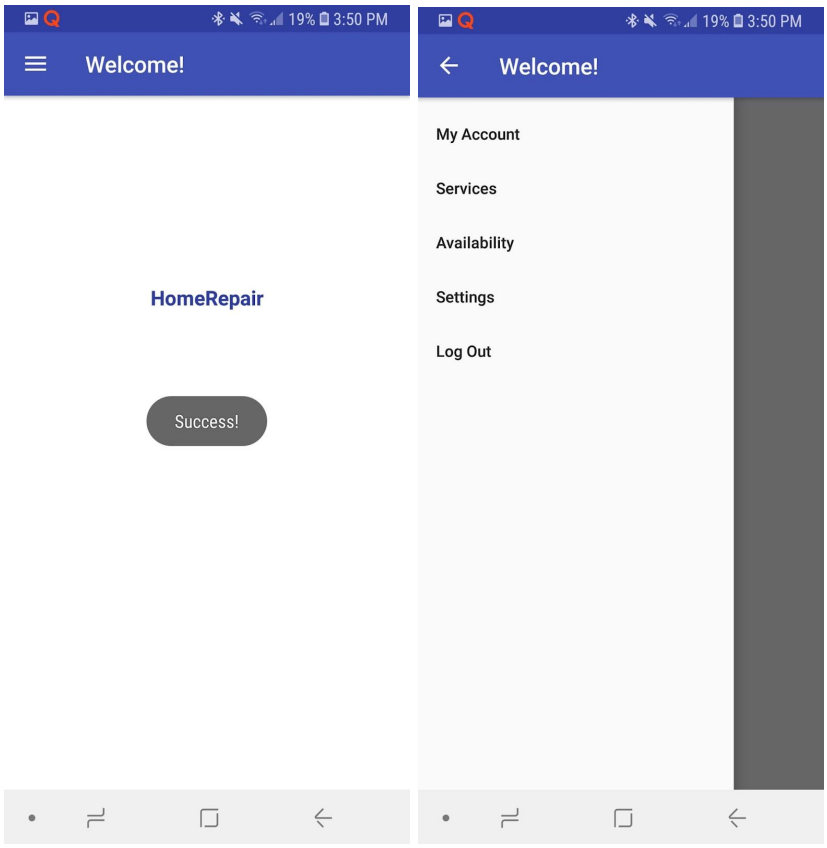
Login Screen:

- From this screen users are able to login as service providers, homeowners and admin
- Users can also create home owner and service accounts from this screen
- Once a user has inputted the correct login credentials, a toast will pop up saying "Success!" and they will be greeted by the welcome screen



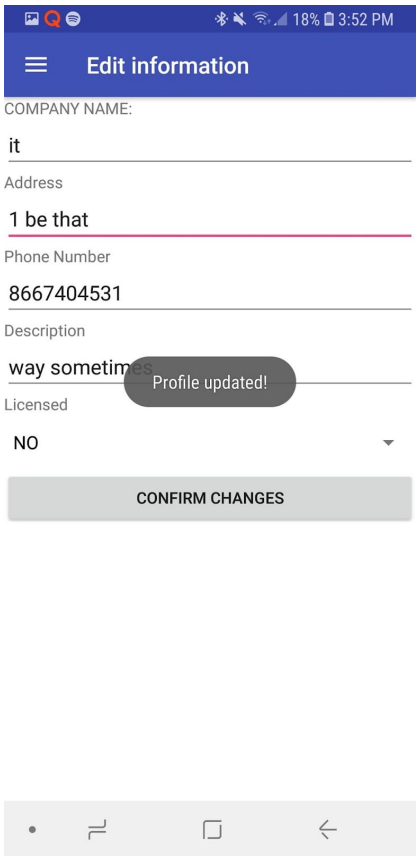
Navigation Bar:

- After logging in the user is greeted with the Welcome screen
- From the Welcome screen, the user can access different functionalities through the navigation bar depending on their role



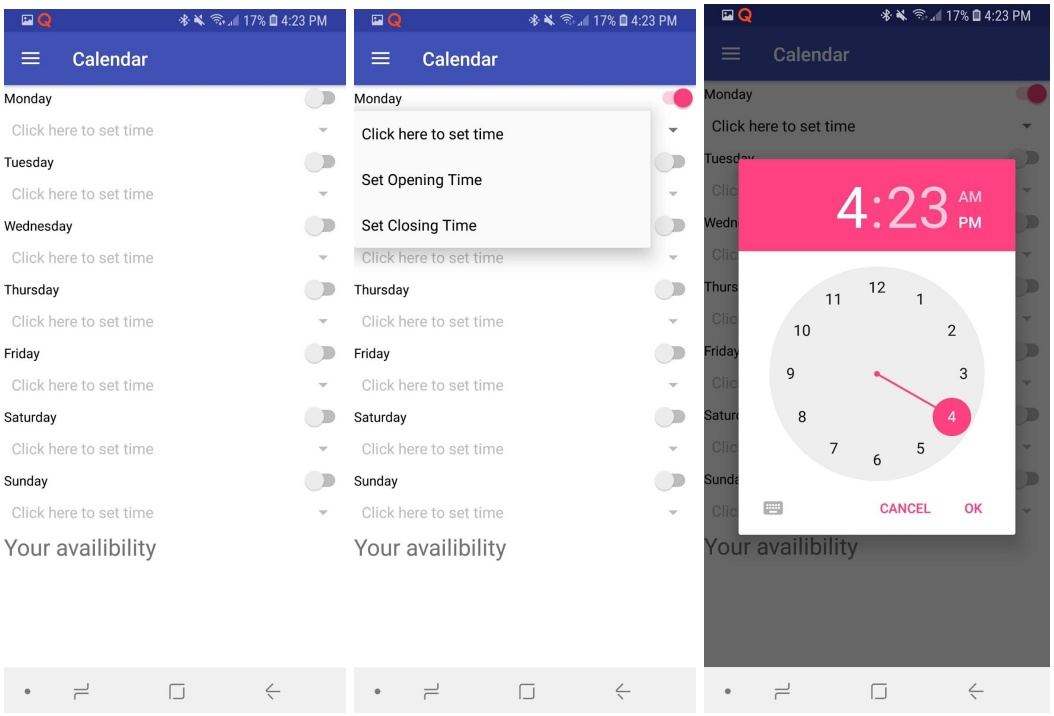
My Account screen

- If the user is logged in as a service provider, they will have access to the My account fragment through selecting “My Account” in the navigation bar
- From this screen the service provider user can edit their company name, phone number, description and license status
- The phone number must be 7 digits, and the address must start with a number
- The user will see a toast saying “Profile updated” if all credentials are valid



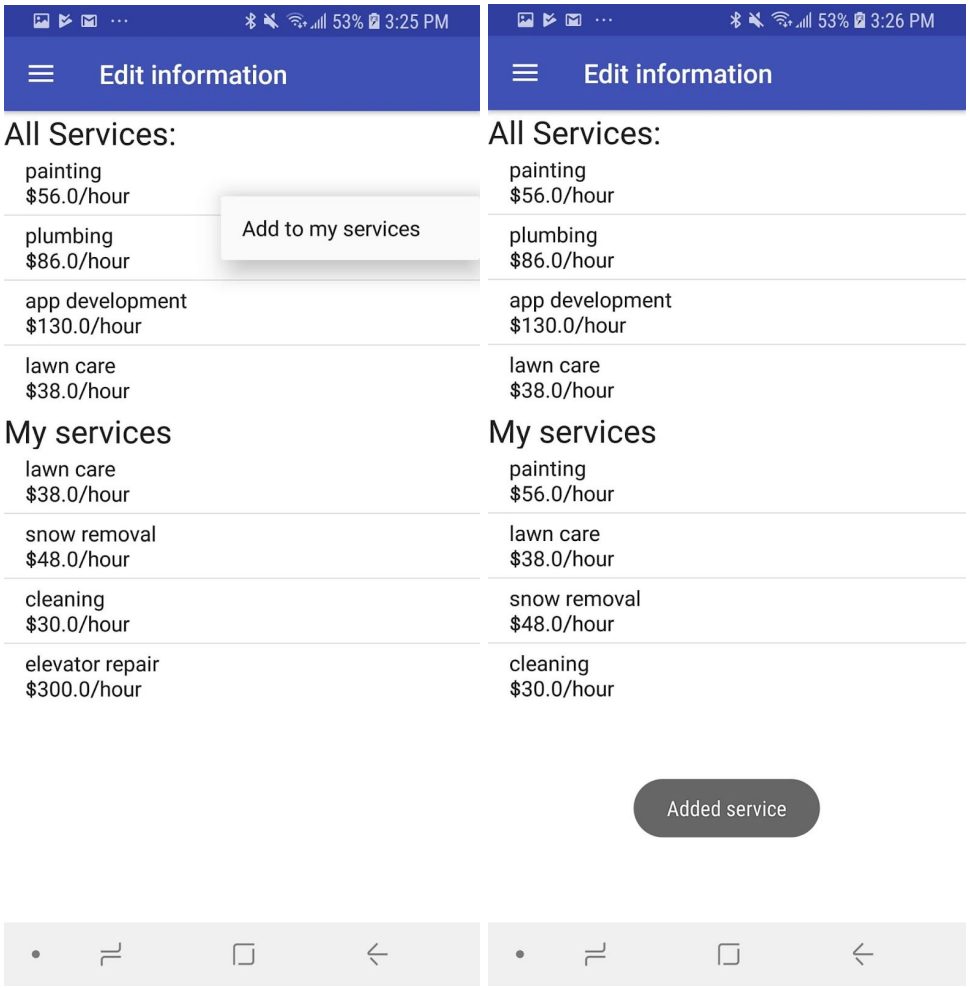
Availability Screen

- If the user is logged in as a service provider, they will have access to the availability screen through the navigation bar
- They will be able to select their availability by selecting the switch of the corresponding day, selecting whether they are inputting the closing or opening time, and using the time picker to select the hour and minute
- Once the availabilities are selected, they will show up on the bottom in a list view for the service provider to see
- After the availabilities are selected you can confirm and push all changes to firebase.



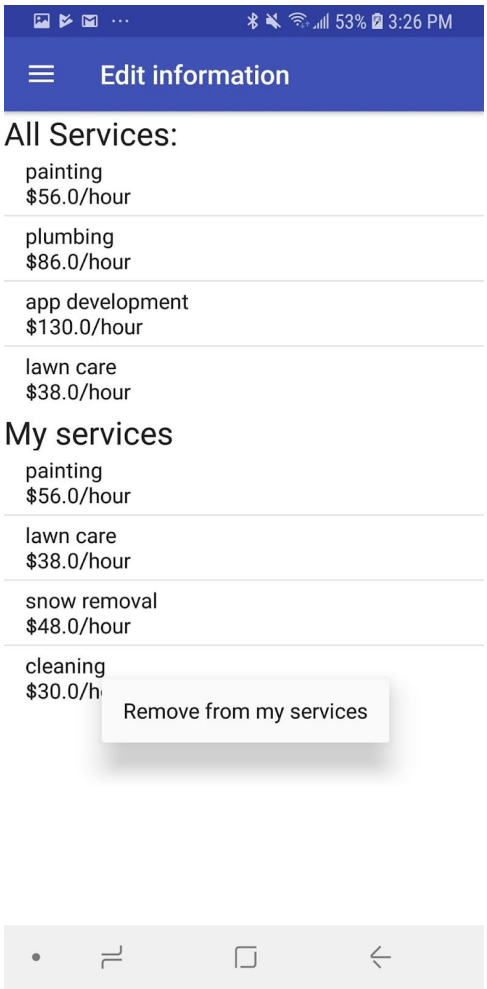
Adding services as a Service Provider

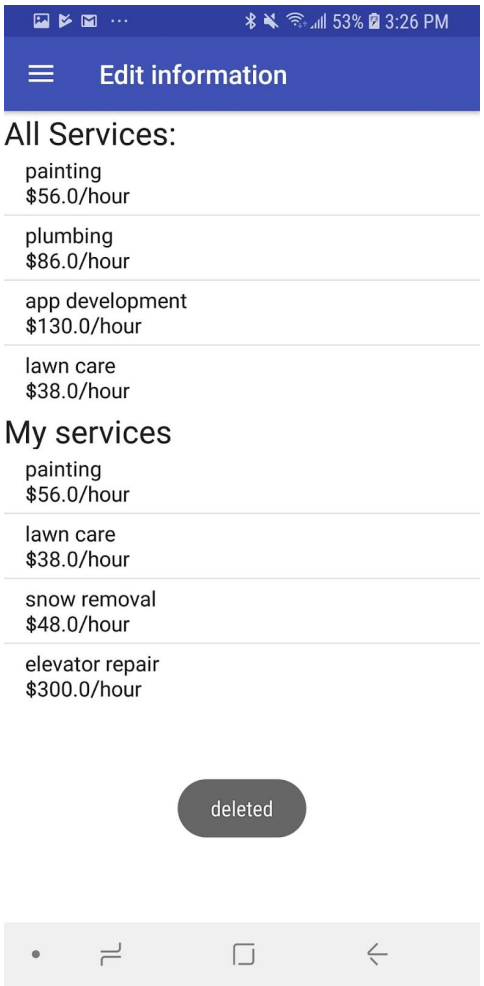
- Once the service provider selects “Services” from the service provider screen they will see all the services that are available to them
- By long clicking a service, they have the option to add it to “My services”
- This will update automatically in firebase



Deleting services as a Service Provider

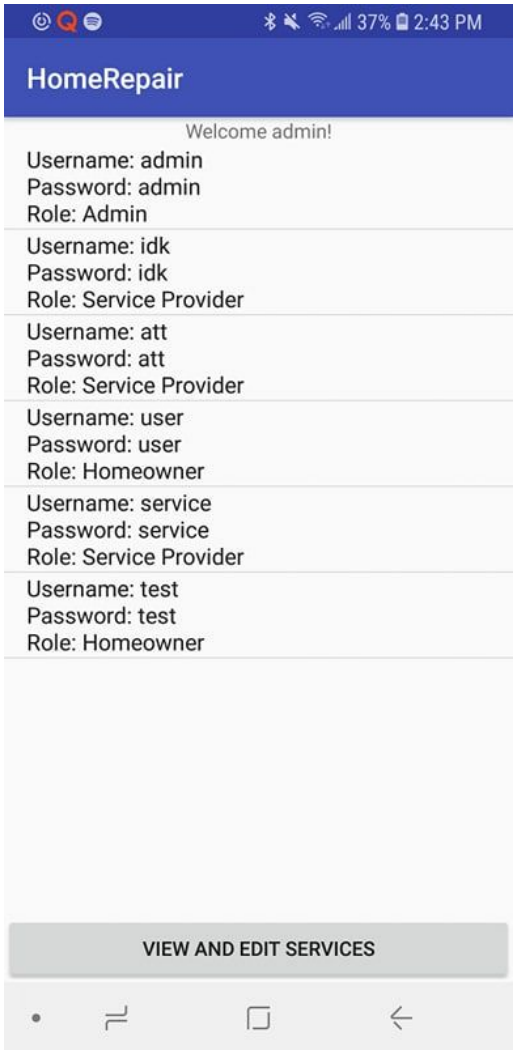
- By long clicking one of the services under “My services” the user has the option to delete it
- Once the service is deleted, the user will see a toast saying “deleted”
- This will update automatically into the firebase





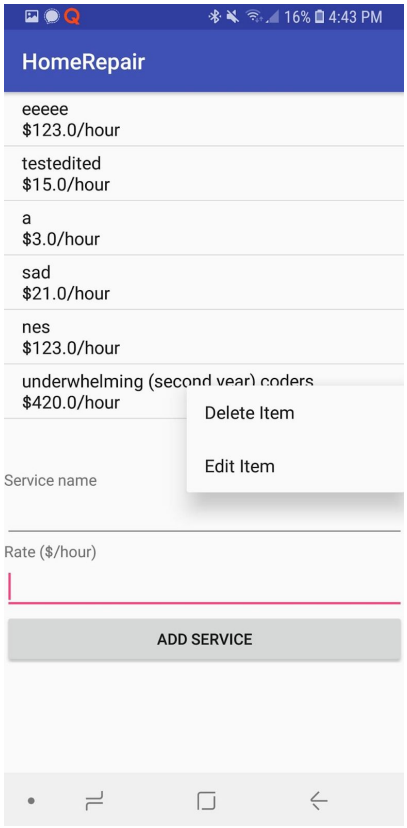
Admin

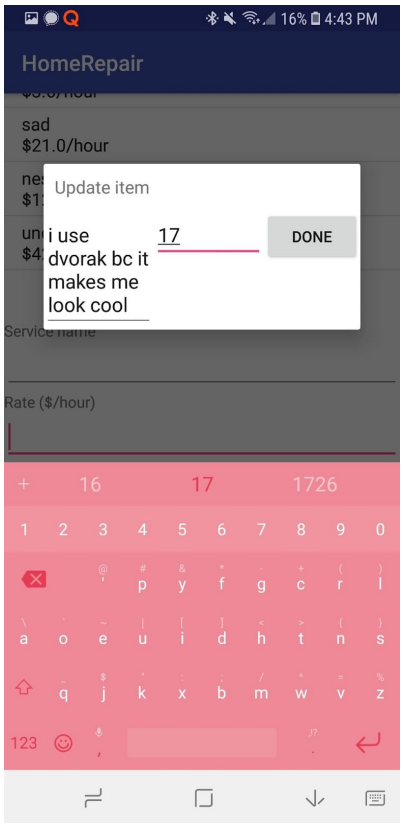
- Once the admin logs in, they will be greeted with a screen listing all users of the app. They will be able to see the user's username, their password and their role
- The admin can click the "VIEW AND EDIT SERVICES" button to view and edit services

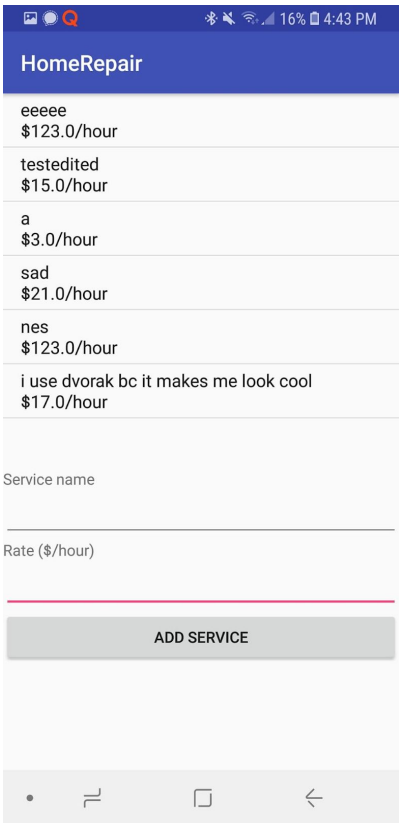


Admin - Adding and Removing Services

- From the admin screen the admin can view and edit all services
- By long clicking a service, a drop down menu appears with the options to delete and edit the service
- The admin can edit both the name and the price of each service, and it will update automatically in the firebase

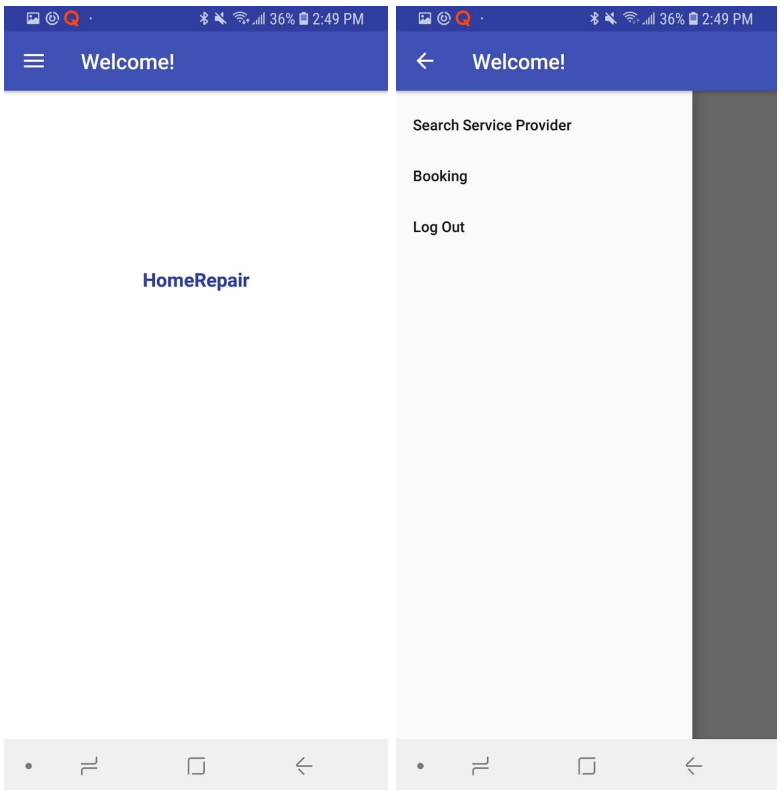






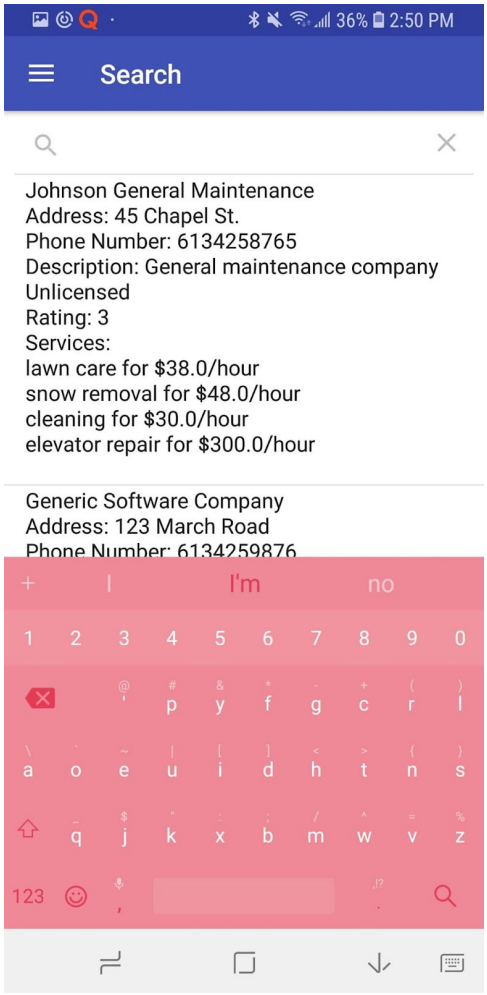
Homeowner Login

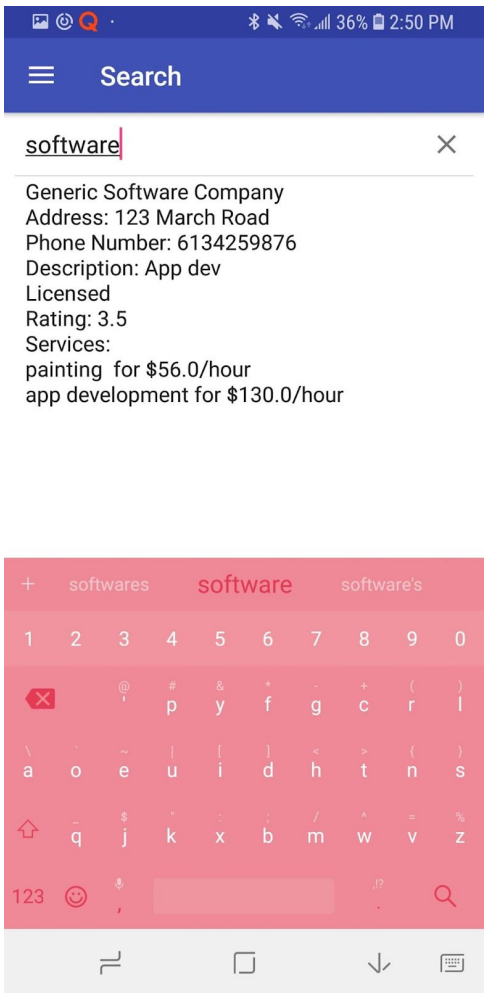
- If the user is a homeowner, once they login they will be greeted with a screen with the name of the app
- There is a navigation bar at the side with all of the functionality that the homeowner has access to



Searching for a Service Provider

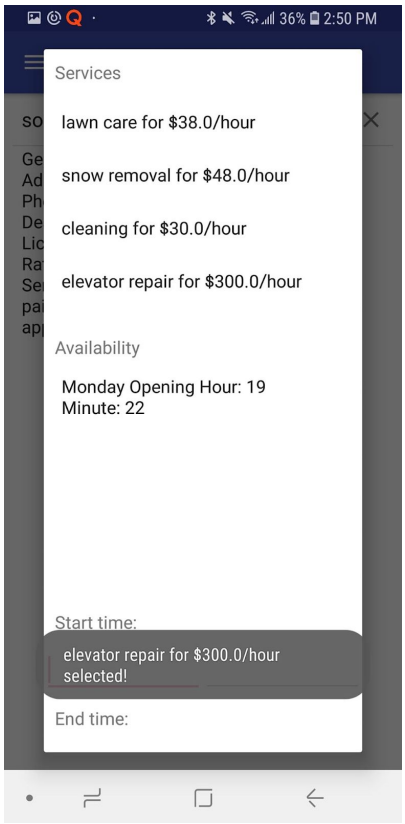
- Once the user selects “Search Service Provider” they will see all service providers that have filled out all of their information
- From the search bar at the top of the screen they are able to search by the name of the service provider, or the name of the service
- They will also see the current rating for the service provider
- The user can search by rating preceding their search with “rating:” as well

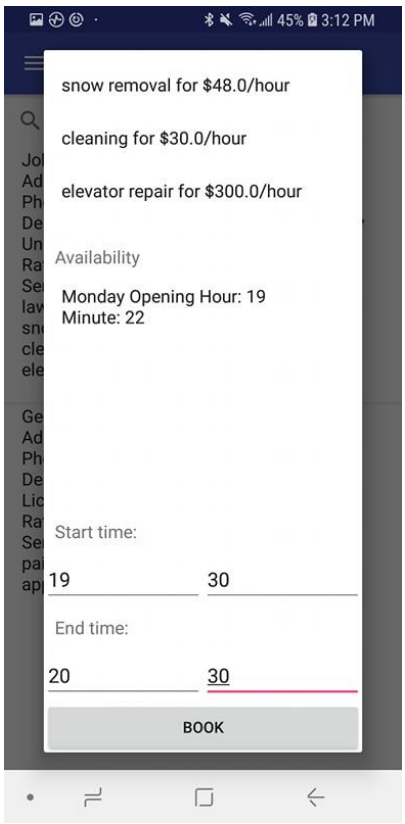


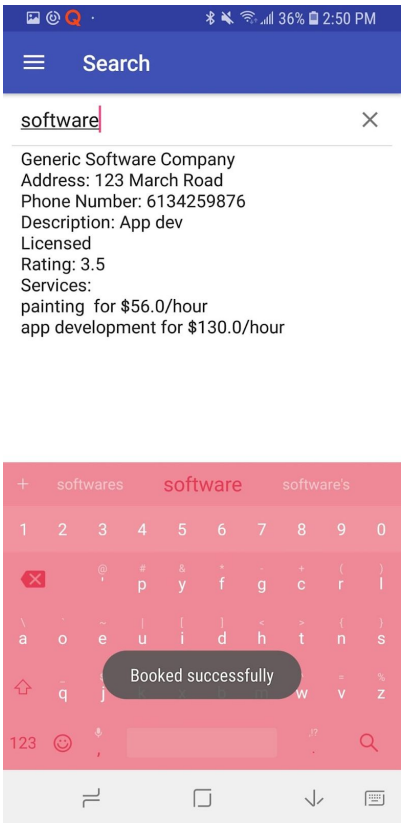


Booking a service provider

- From the previous screen, a user can select a service provider. They will see a list of all services they provide and the price
- Once a service is chosen, the user can choose a start time and an end time
- If everything entered is valid, the user will see a toast saying that their booking was successful

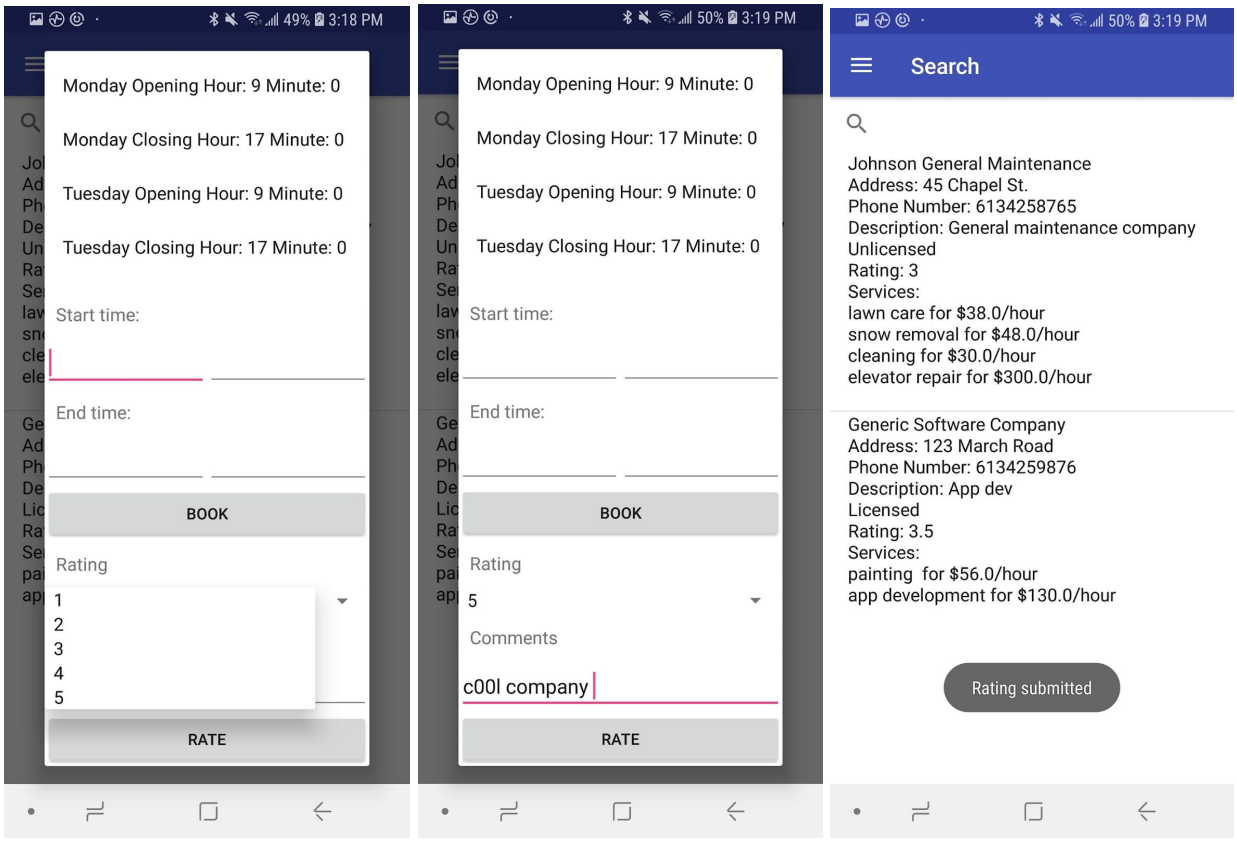




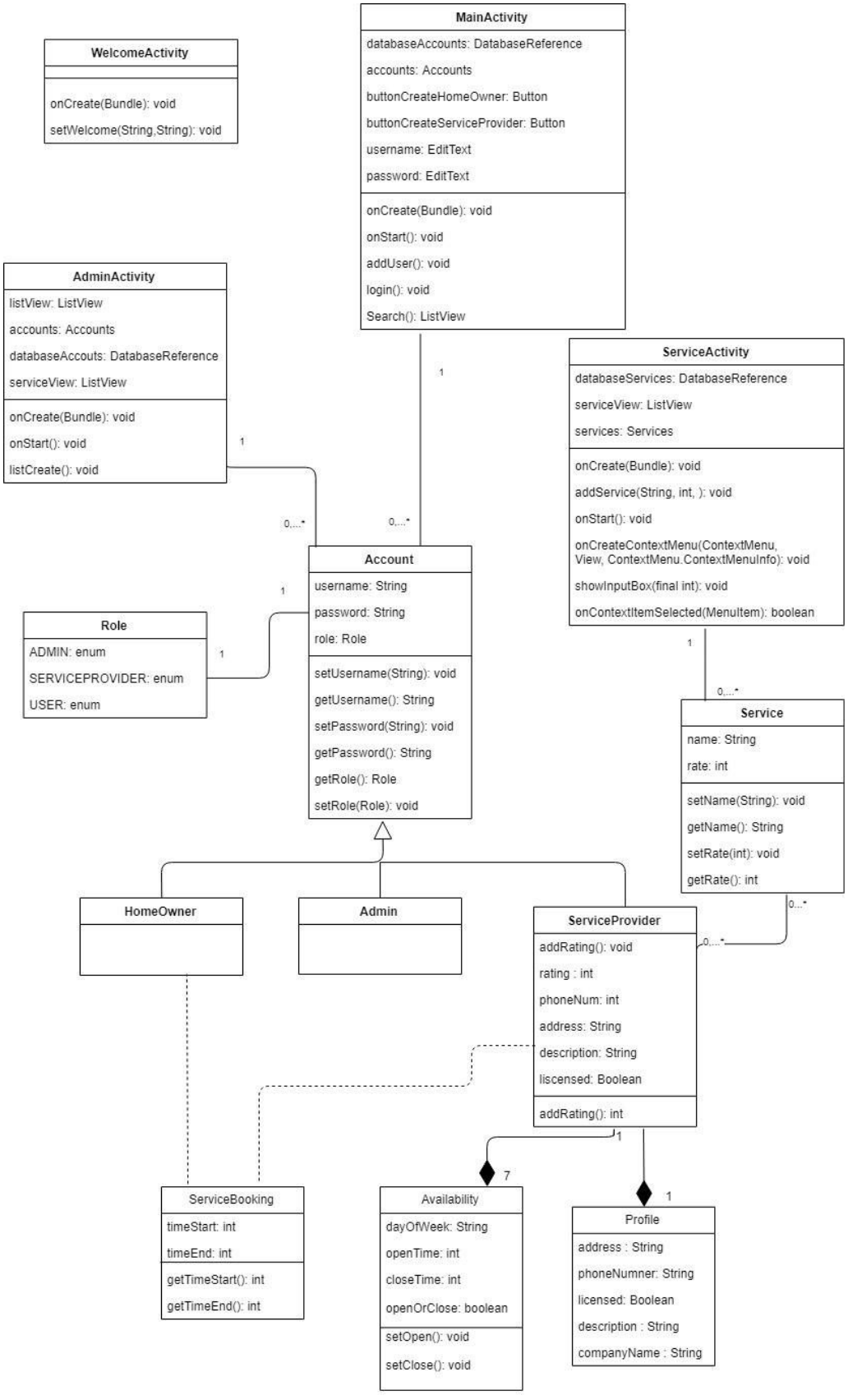


Rating a service provider

- From the same search screen, the user also has the option to give the service provider a rating out of 10 once a service provider is selected
- The user also has the option to leave a comment to the service provider
- The user will see a toast saying that their rating has been submitted



Final UML Diagram



Lessons Learned and Conclusion

All of the group members started off the project with little to no knowledge on how to use Android Studio, Git and GitHub. Through working on the app we were all able to gain an understanding of the fundamentals of app development and version control.

The main objective of this project was to apply the theoretical knowledge we learned in class and apply to a scenario that we could be facing in the workforce. We were able to use multiple skills learned during the course such as the creation of UML diagrams, design process, version control, databases, unit testing, Circle CI, account systems, and more.

In the words of Julius Caesar, “Experience is the teacher of all things”, and through this project, we were able to learn many skills that we could not learn through studying lecture slides such as how to collaborate with a group on a coding project. Big Mood Central has learned a lot through the project and we are proud of our final application.