SEG 2105 Project: InstaFix

Group Name: TBA

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Professor: Miguel Garzon

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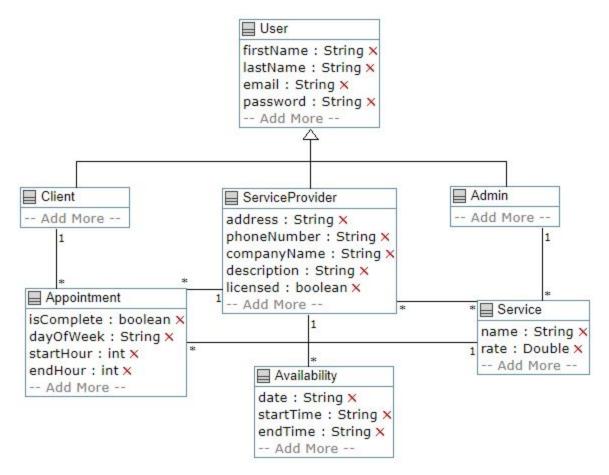
1.0 INTRODUCTION

Need to revamp the look of your home? Is time consumption your main concern in bringing a change? If so, look no further. Instafix is an android application which is easily accessible and usable for everyone.

Are you a **customer** looking for a renovation? From patios to decks, and bedroom renovations our general contractors can do it with great skill and expertise. We have trained and trusted home improvement service providers in Ottawa who excel at various home improvement projects and deliver the best results. All the information of each service provider will be provided in Instafix. The application will list all the services and their price offered from different service providers in Ottawa. As the customer, you can book an appointment with a service provider and get your renovations arranged within seconds. To top it off, each service providers has their own rating and reviews that you can use to select the right service provider for you.

Are you a **service provider** looking to advertise your services? Instafix allows you to create your own account and publish your services for customers to see. You can adjust your availability and see your orders from customers as well.

2.0 UML CLASS DIAGRAM

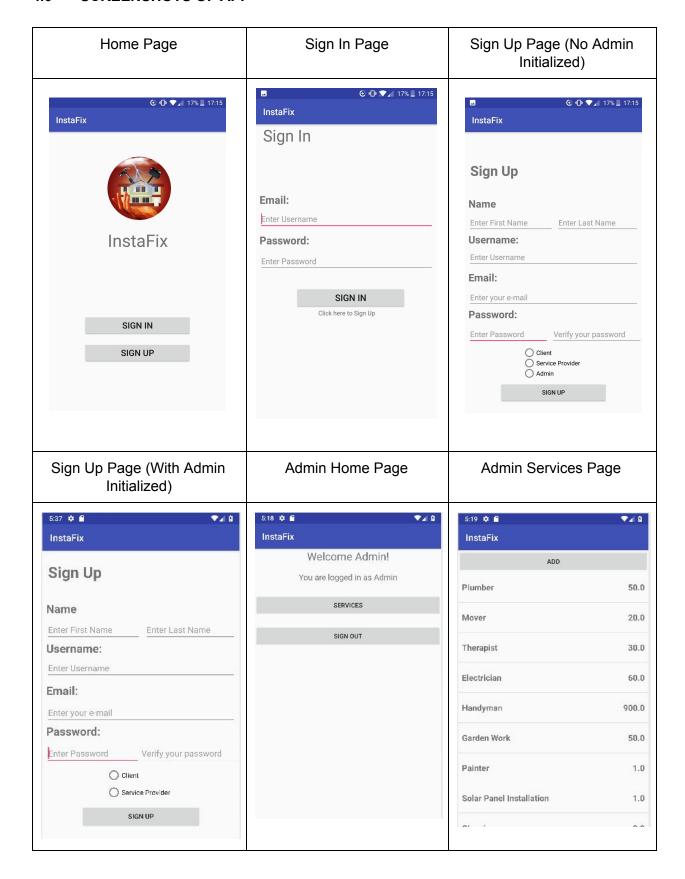


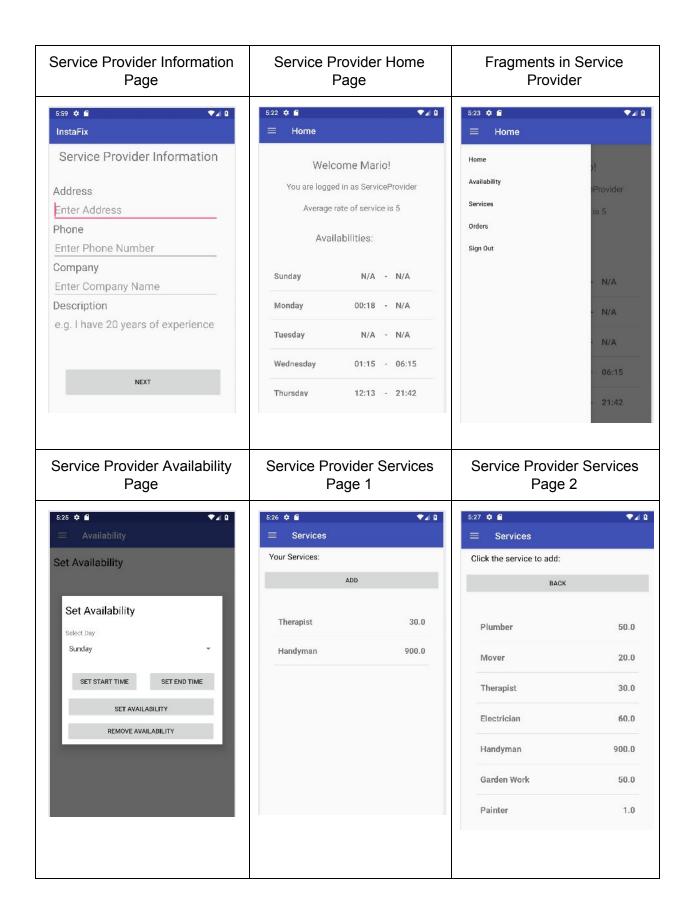
3.0 CONTRIBUTION

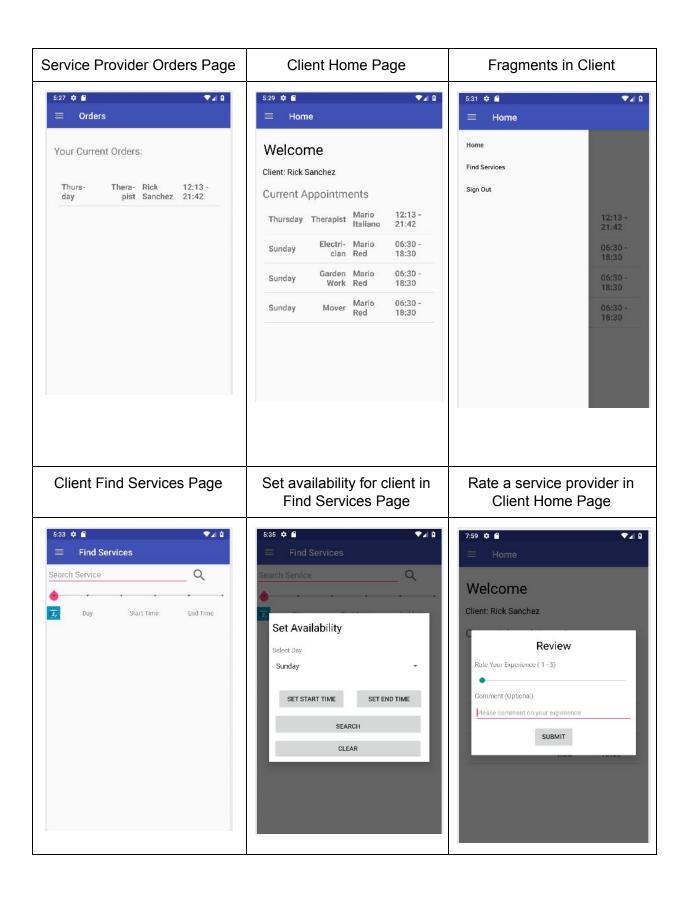
| Deliverable | Name | Percent Contribution | Contribution |
|-------------|-------------------|----------------------|--|
| 1 | Bhalachandra | 25 | - Layout and Implementation for Main Activity and SignIn - Firebase Setup for SignIn |
| | Harsh | 20 | - Created GitHub Repo - Firebase Setup |
| | Haard | 15 | - Testing/Debugging - Layout and Implementation of Welcome Activity |
| | Nischal Sharma | 30 | - Layout and Implementation SignUp - Firebase Setup for SignUp |
| | Nishchal Nepal | 10 | - UML |
| | Bhalachandra | 20 | - Layout and Implementation for Admin Activity |
| 2 | Harsh | 25 | - UML - Unit Test Cases - ListView for Services - CircleCl |
| | Haard | 30 | - Firebase Implementation for Services (Add and Remove Services) |
| | Nischal Sharma | 25 | - Firebase Implementation for Services (Edit Services) |
| | Nishchal Nepal | 0 | |
| 3 | Bhalachandra | 25 | - Layout and Implementation for Availability Activity and Dialog -Firebase Implementation for Add Availability |
| | Harsh | 15 | - UML - Unit Test Cases - Testing/Debugging - Created Firebase Classes |

| | Haard | 20 | - Firebase Implementation for Add, Edit and Remove Service - ListView for Service |
|---|-------------------|----|--|
| | Nischal Sharma | 20 | - Firebase Implementation for Edit and Remove Availability - ListView for Availability |
| | Nishchal Nepal | 20 | - Layout and Implementation for Additional Information at SignUp |
| 4 | Bhalachandra | 15 | - CircleCl Status Button - Add Rating - Fragments for Client Homepage Implemented |
| | Harsh | 10 | - UML - Test cases |
| | Haard | 25 | - Search by service name, rating and availability - Booking Implementation for Add |
| | Nischal Sharma | 25 | - Listview Showing Client Appointments and its adapter - Navigation Drawer and Fragment created for Client and Service Provider Views - Moved Old Service Provider back to new fragment mode |
| | Nishchal Nepal | 25 | - Listview Showing Client Appointments and its adapter - Setup old Service Provider to new fragment layout - Report |

4.0 SCREENSHOTS OF APP







5.0 LESSONS LEARNED

Nishchal Nepal

Some things i learned:

- Start small, then extend
 - We started by implementing one new concept at a time for each deliverable such as firebase, listview, CircleCI, and more, then extended its approach for future deliverables.
- Change one thing at a time
 In the process of updating codes for each deliverable, we had to focus on certain sections while testing changes one at a time.
- Add logging and error handling early
 By applying error checking in our SignIn and SignUp pages right after its creation, we avoided many frustrations that could have came while logging into the application using Firebase.
- Test the parts before the whole
 As we progressed through the project, the amount of code from each person in the
 group was becoming untrackable. To overcome this issue, we had to work on small parts
 by creating our own branch in GitHub. We merged it after each individual section
 performed properly.
- Everything takes longer than you think

Nischal Sharma

- Learned how to implement Asynchronous behavioral methods for Firebase Datasnapshot information
- Learned how to setup Fragment associated navigation drawer
- Learned how Android Studio uses de-appreciated code for Navigation Drawer and its fragment

Haard Trivedi

- Learned how to utilize Firebase to the best extent and its features, especially data snapshots.
- The listview was an integral part of the project and so it was necessary to learn the best practices in order to create and operate list views in the project
- Learned about the engineering cycle and how a DevOps environment would function

Harsh Gupta

- Learned that if a project is not organized properly from the beginning, developing the project further is going to be a terribly annoying and difficult process.
- Learned about CircleCI's practical benefits and how to implement it.
- Learned that Stack Overflow is usually more useful than official documentation.

Bhalachandra Malghan

- Learnt different debugging techniques, including use the debug mode in android studio and better understanding the error messages being thrown.
- The project must be planned well from the start, we decided to move from a one page to having multiple fragments on the last deliverable, it lead to a lot of unnecessary work of moving pages and functionality around.