# **Project Documentation**

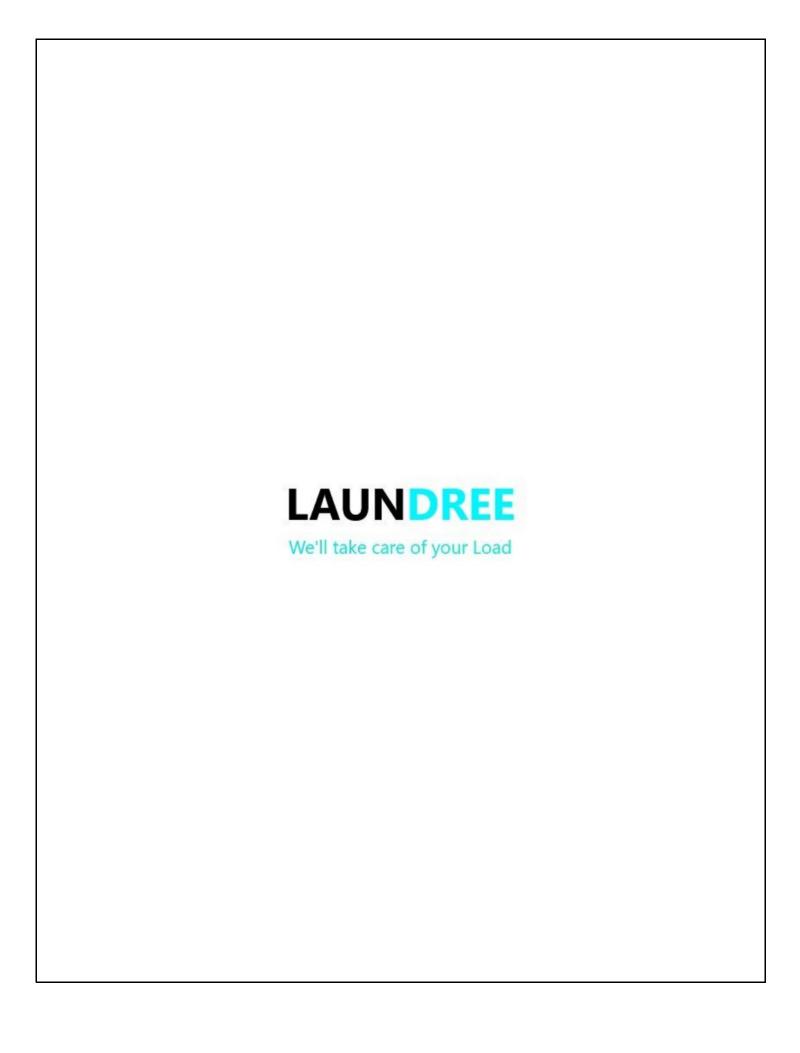
by NP MTSWENI

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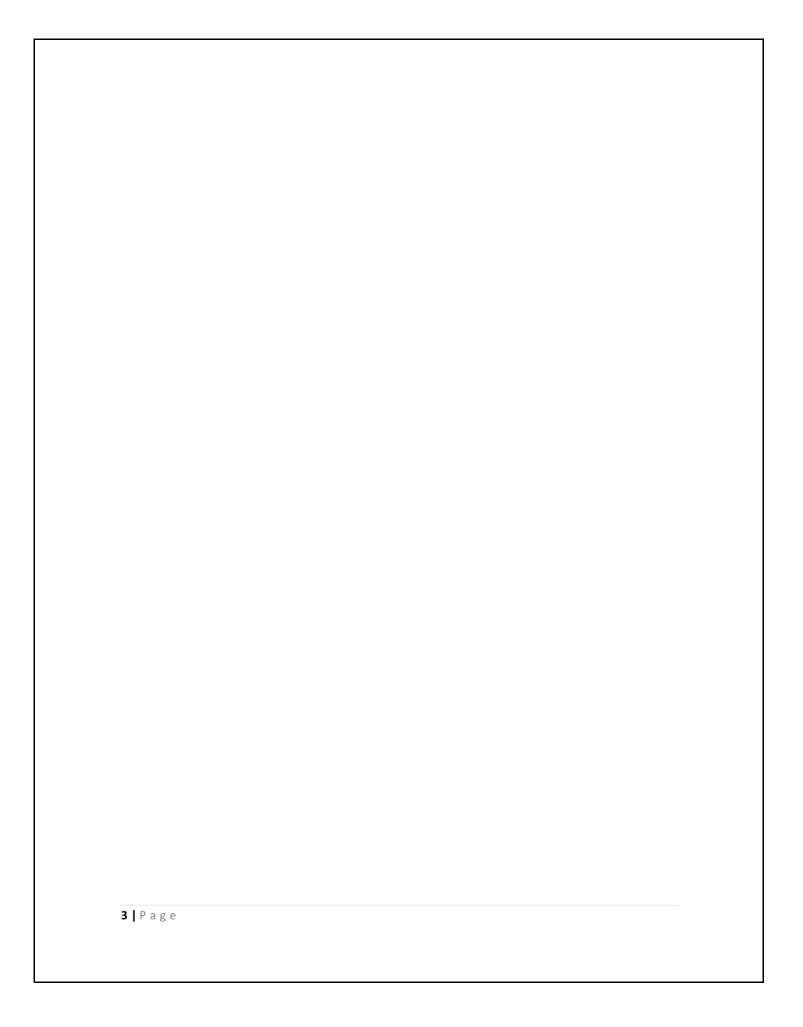
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## Contents

1.	Members	4
1.1	. Project Description:	4
1.2	. Problem:	4
1.8	Solution:	4
	1.3.1. Objectives	4
2.	Design	5
	2.1. Use Case	5
:	2.2. Use Case design	6
		6
	2.3. Database Tables	7
	2.3.1. Main Tables	7
3.	Screen layout mockups	8
:	3.1. User First Screen	8
;	3.2. Registration Page	9
:	3.2. Login Page	9
	3.2.1. Location Page	. 11
	3.2.2. Service Page	. 13
	3.2.3. Checkout Page	. 14
	3.2.4. Profile Page	. 16
4.	Screen Flows	. 17
4	4.1. Admin First Screen	. 18
	1.2. Registration Screen	. 19
	4.3. Login Screen	.21
	4.4. Orders Screen	. 22
	4.5. Categories	. 23
	4.5.1. Accepted Screen	. 23

	4.6. Location Screen	24
	4.7. Prices screen	25
	4.8. Profile Screen	26
5.	Database Analysis	27
	5.1. Debugging	27
	5.2. Laundry Admin APK analysis	28
	5.3. Laundry Admin profile analysis	28
	5.4. Laundry Client APK analysis	29
	5.5. Laundry Client Profile Analysis	29
6.	Activities	30
	6.1. OTP code for new users	30
	6.2. Resend OTP Code to Admin and Resetting password	30
	6.3. Resend OTP Code to user and Resetting password	31
	6.4. Current Location	31
	6.5. Distance between two points	32
	6.6. Notification for an accepted order	32
	6.7. Notification to verify delivery date	33
7.	Database Authentication	33
	7.1 Firebase connection	33
	7.2. OTP and Location Authentication	34



#### 1. Members

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## 1.1. Project Description:

You need choice one platform that you are comfortable with and use it to develop your Mobile Application.

#### 1.2. Problem:

We have noticed that a lot of people struggle with time management, especially students. Having to worry about studying, Assignments and Projects then having a pile of laundry that needs to be attended to. The laundry is the issue here.

#### 1.3. Solution:

This is where the app comes in, we have created an app that helps our users get connected to any laundry companies near them that can do their laundry and they don't have to worry about taking the laundry there because the app offers a service that collects the laundry at the specified location.

#### 1.3.1. Objectives:

- To provide an application that makes our user's lives easier, by saving time.
- To provide the users with an application that is User friendly.
- To provide excellent service to our users.
- To have an application that helps ours users save a lot of money by paying less.

## 2. Design

#### 2.1. Use Case

- Users and the admin register using their phone number
- Firebase is the internet-based platform used.
- Access the Geolocation (Integrate app with google maps)
- Search for the nearest Laundry company
- Select the Laundry of your choice and send request
- Request gets accepted
- · Predefined prices are displayed
- Select the load size
- Select Laundry service (Wash, tumble dry, fold or ironing)
- Select payment method (cash only)
- Schedule a date for laundry to be delivered
- Get a notification on app to confirm the request

## 2.2. Use Case design

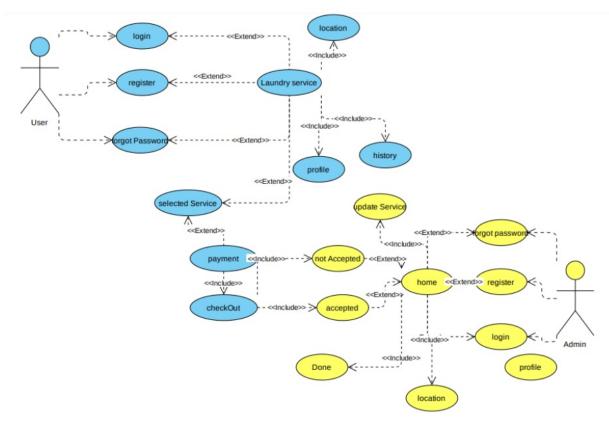


Figure 2.2: Above is the Use case which illustrates the user's interaction with the application.

#### 2.3. Database Tables

#### 2.3.1. Main Tables

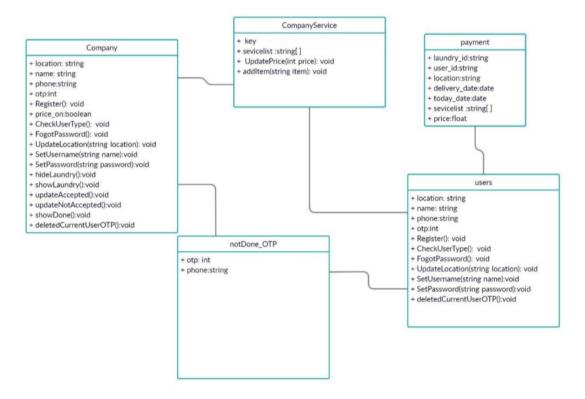


Figure 2.3.1. Above we have the UML diagrams which represent the database diagram of the table.

- 3. Screen layout mockups
- 3.1. User First Screen



Figure 3.1. First Screen

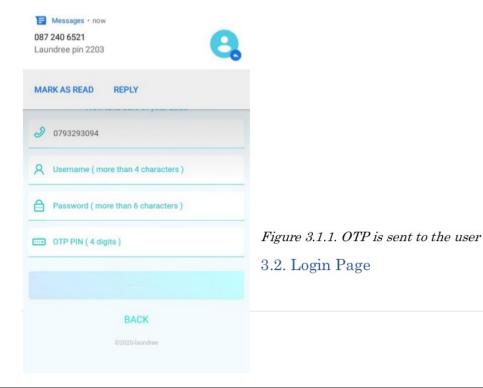
After opening the app, this is the first page that appears on your screen.

## 3.2. Registration Page



Figure 3.1. Registering the user number

Here the user is required to start by registering their phone number in order to get an OTP number.



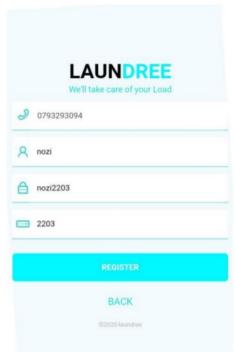


Figure 3.2. Entering the OTP and user detail

Once the user has entered the OTP and their details, the "Register" button will then be enabled and the user will be logged in.

## 3.2.1. Location Page





Figure 3.2.1. Setting the user location

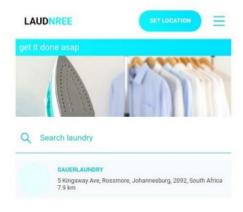


Figure 3.2.1. The user selects the laundry company

The user will then be required to set their location where their laundry will be collected from.

After updating their location, they are then provided with companies near them. The user will then select their laundry company of choice.

#### 3.2.2. Service Page



Figure 3.2.1. Services screen

The services provided by the company will then be displayed with the prices set by the company. The user also needs to pick a delivery date for their laundry.

#### 3.2.3. Checkout Page

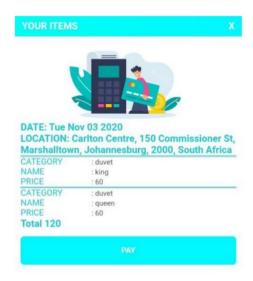


Figure 3.2.3. Checkout screen

Once the user has checked out, all the items selected plus their prices will then be display on the checkout page.

#### 3.2.4. History Screen



Figure 3.2.4. History screen

All the past and current orders appear on the history page and the past orders can be deleted from the page.



Figure 3.2.4. Offline History Page

The user can still access their history even when they are offline.

#### 3.2.4. Profile Page



Figure 3.2.4. Profile Page

The user can logout or update their details on the profile page.

## 4. Screen Flows

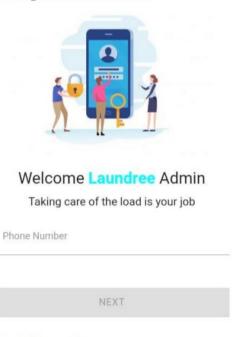
## 4.1. Admin First Screen



Figure 4.1. Admin first Screen

Now we look at the system from the company's side

## 4.2. Registration Screen



**Forgot Password** 

©2020 laundree admin

Figure 4.2. Registration screen

The company registers their telephone numbers, where their customers can get hold of them.

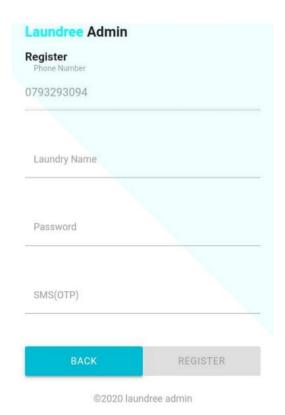


Figure 4.2. Registration screen

The company then has to register themselves and they will receive an OTP for verification.

#### 4.3. Login Screen



Figure 4.3. Admin Login Screen

Once the company has registered their number and name, they automatically login to their system.

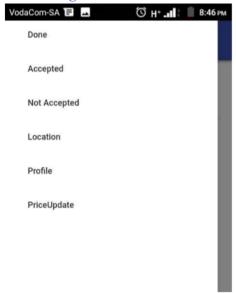
## 4.4. Orders Screen



Figure 4.4. Placed orders

All the orders placed by the user appear on this page, with the services, total prices and delivery date.

## 4.5. Categories



#### 4.5.1. Accepted Screen

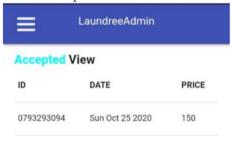


Figure 4.5. Accepted Orders

Once the order has been accepted by the company, the order will appear on this page.

#### 4.6. Location Screen



Figure 4.6. Setting Location

The admin can set the location of the company.

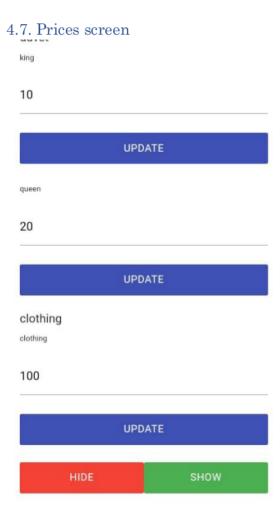


Figure 4.7. Setting prices

The company sets the prices of the services that they provide on this screen which will appear on the user's app.

#### 4.8. Profile Screen

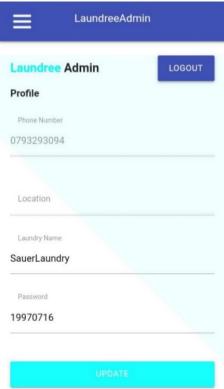


Figure 4.8. Profile Screen

The profile page is used by the admin to update the details of the company.

## 5. Database Analysis

## 5.1. Debugging

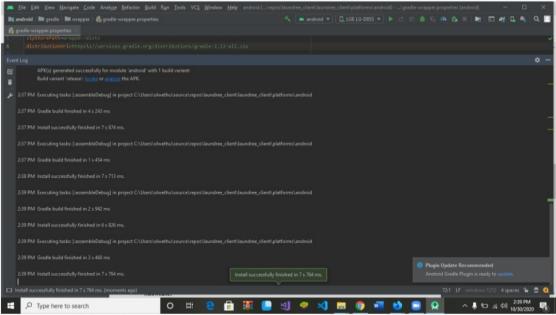


Figure 5.1. Debugging

By debugging the app, we are building the app to make sure that we don't encounter any problems such as any errors, or the app crashing.

## 5.2. Laundry Admin APK analysis

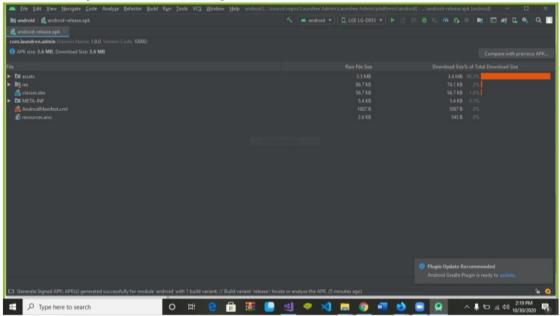


Figure 5.2. Laundry admin apk analysis

## 5.3. Laundry Admin profile analysis

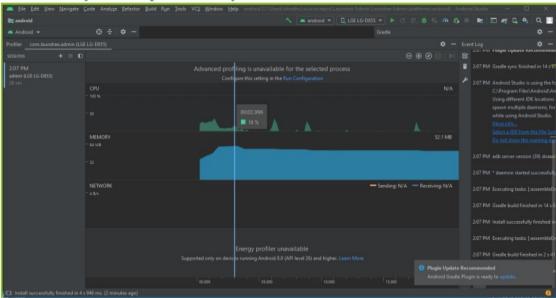


Figure 5.3. Laundry Admin profile analysis

## 5.4. Laundry Client APK analysis

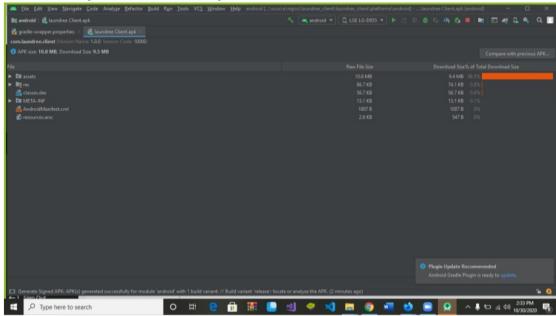


Figure 5.4. Laundry client apk analysis

## 5.5. Laundry Client Profile Analysis

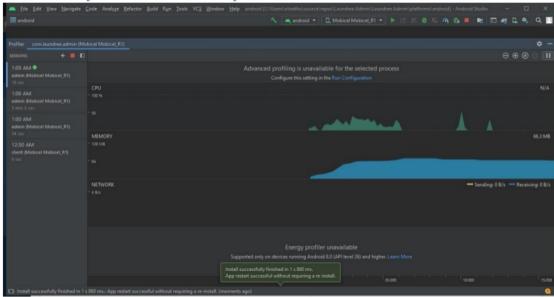


Figure 5.5. Laundry client profile analysis

#### 6. Activities

#### 6.1. OTP code for new users

```
| Second | File | Edit | Selection | View | Go | Run | Terminal | Help | Controllerja - Laundree - Visual Studio Code | - | Column | New | Second | New | Second | - | Column | New | Second | New | New | Second | New | Second
```

Figure 6.1. OTP for new user

6.2. Resend OTP Code to Admin and Resetting password

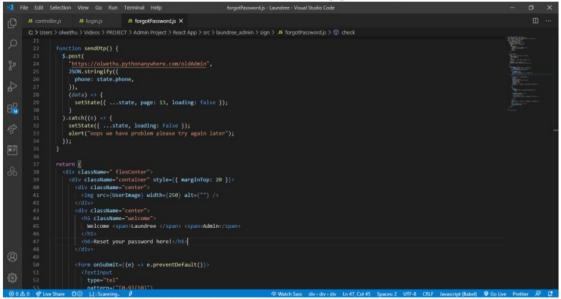


Figure 6.2. Resend OTP and reset password

6.3. Resend OTP Code to user and Resetting password

```
Tile Edit Selection View Go Run Terminal Help
       JS controller.js ×
Q
                 function Reset(state) {
                   $.post(
                      "https://olwethu.pythonanywhere.com/oldUser",
                     JSON.stringify({
                       phone: state.current.phone,
                     function (data) {
8
                        // alert("done"):
                       state.update({ ...state.current, loading_auth: false, forgotPassword_page:1 });
                   ).fail((e) => {
                    state.update({ ...state.current, loading_auth: false });
alert(JSON.stringify(e));
(8)
78 function resetPasword(state){
⊗ 0 △ 0 ♂ Live Share □ □ (...): Scanning... ♂ ○ W
                                                             Ln 1, Col 1 Spaces: 2 UTF-8 CRLF Javascript (Babel) 🖗 Go Live Prettier 尽 🕻
```

Figure 6.3. Resend OTP and reset password

#### 6.4. Current Location

Figure 6.4. Current Location of user or admin

#### 6.5. Distance between two points

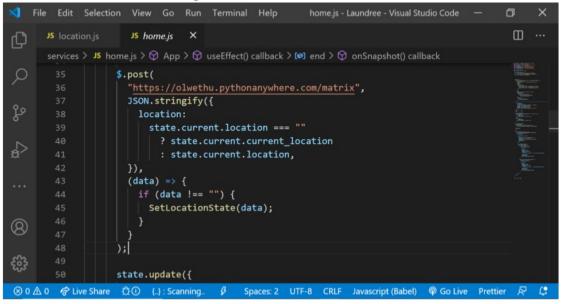


Figure 6.5. Distance between two points

#### 6.6. Notification for an accepted order

Figure 6.6. Accepted order notification

6.7. Notification to verify delivery date

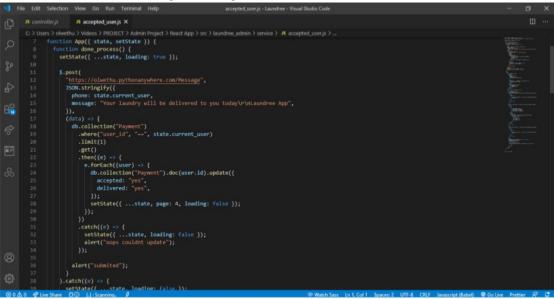


Figure 6.7. Verifying delivery date

#### 7. Database Authentication

#### 7.1 Firebase connection

```
| File | Edit | Selection | Wew Co | Run | Terminal | Help | Serebasejs - Visual Studio Code | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | .
```

Figure 7.1. Firebase connected to app

#### 7.2. OTP and Location Authentication

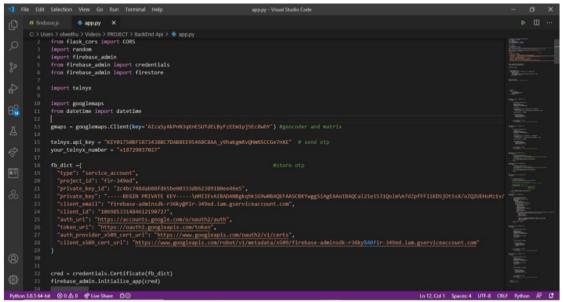


Figure 7.2. OTP and location authentication

## **Project Documentation**

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/0	Instructor			
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PAGE 1				
PAGE 2				
PAGE 3				
PAGE 4				
PAGE 5				
PAGE 6				
PAGE 7				
PAGE 8				
PAGE 9				
PAGE 10				
PAGE 11				
PAGE 12				
PAGE 13				
PAGE 14				
PAGE 15				
PAGE 16				
PAGE 17				
PAGE 18				
PAGE 19				
PAGE 20				

PAGE 21	
PAGE 22	
PAGE 23	
PAGE 24	
PAGE 25	
PAGE 26	
PAGE 27	
PAGE 28	
PAGE 29	
PAGE 30	
PAGE 31	
PAGE 32	
PAGE 33	
PAGE 34	
PAGE 35	