

User Manual – Frith

Contents

- User Manual – Frith 1
 - 1. Application 2
 - 1.1 Purpose 2
 - 1.2 Installation 2
 - 1.3 Operations..... 4
 - 2. Dashboard 17
 - 3. Help or Troubleshooting 22

1. Application

1.1 Purpose

Frith is a smartphone application designed to be multifunctional and to meet the requirements of the Client. First, the advanced application technology lets security guards view and submit timestamped incident reports directly from their mobile devices. Secondly, business owners can use the application on their mobile devices to share information about individuals causing issues on their premises to an information pool that includes other nearby businesses that have also subscribed to the same pool. Finally, Frith includes an online dashboard for security firm owners to manage the security guard employees who will use the mobile application and an online dashboard for business owners where they will be able to view submitted incident reports for their business.

The application has been made using flutter. Flutter is a cross-platform application development tool. We designed this with a focus on android devices. This is a proof-of-concept project, so many elements are not ready for real-world application. The database is locally installed through XAMPP.

1.2 Installation

To install this application, the user must first set up the project. Then step you a local XAMPP server for the database. Then lastly, run a mobile emulator.

1.2.1 Project files

First, start with getting the project files. These must be downloaded from GitHub, which can be found under [Seb-SB / KIT302-frith](#) (figure 1). <https://github.com/Seb-SB/KIT302-frith>

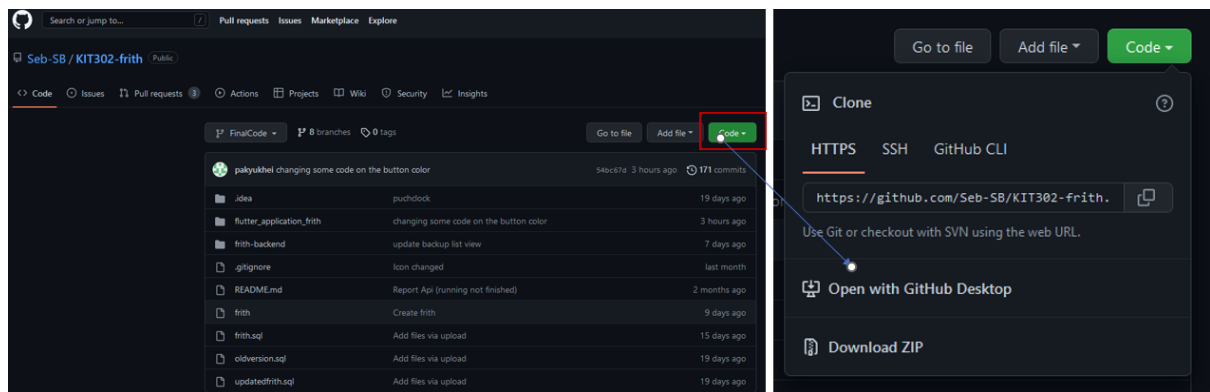


Figure 1

1.2.2 Flutter and VS Code installation

Secondly, the user must install flutter. This can be found on the flutter website with full installation instructions. Part of the install instruction for flutter with have you download and install VS Code.

<https://docs.flutter.dev/get-started/install>

1.2.3 VS Code mobile emulator setup

After you have installed both flutter and VS code, you will need to get the emulator set up. The link below will have detailed instructions for setting up a mobile emulator on VS Code.

<https://flutteragency.com/set-up-an-emulator-for-vscode/>

1.2.4 XAMPP setup

Step one is to download the executable for your Operating system. This can be found in the link below. You only need to download Apache, MYSQL, PHP, and phpMyAdmin.

<https://www.apachefriends.org/index.html>

full setup instructions can be found in the link below.

<https://blog.devsense.com/2021/configuring-xampp>

1.2.5 Important database

To import the database we used for testing, follow these steps.

1. Open the database in phpMyAdmin
2. Click on the database from the top menu
3. Select the name of the database from the drop-down menu which you want to import.
4. Click on the import tab.
5. Browse your .sql file by clicking the 'Choose File' option you wish to import. Then click on the 'GO' button at the bottom. the database file is database.sql from GitHub (Figure 2).

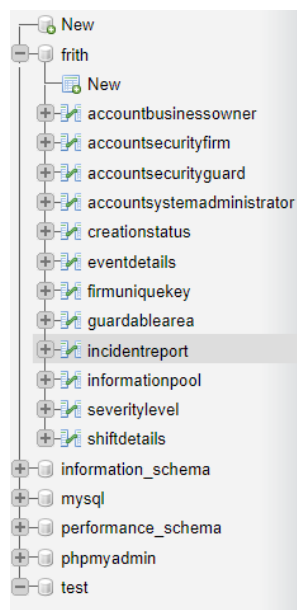


Figure 2

1.2.6 Change IP

The final step is to locate the `global_ip.dart` file with the project (figure 3). Once located, change the value of the `GLOBAL_IP` to your IP address. In figure 4, you will just need to replace the "192.000.0.00" with your own IP address.

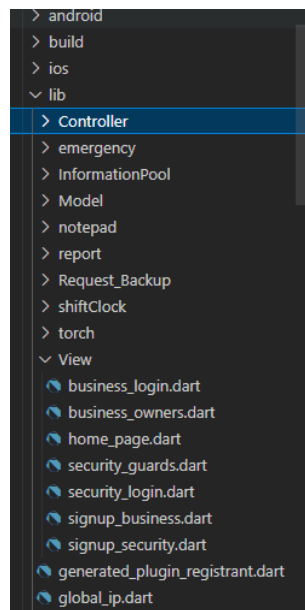


Figure 3

```
1  /**
2   * This file is for a global variable so you don't need to go through each file
3   * and change the ip address.
4   *
5   */
6
7  library my_project.globals;
8
9  const String GLOBAL_IP = "192.000.0.00";
10
```

Figure 4

1.3 Operations

This section of the manual we will go step by step through the application and show each part.

Once the Application is run you will be greeted with the start-up page (figure 5). This screen you can select with are you wish to log into. On the left you can login as a security guard and on the right as a business owner.

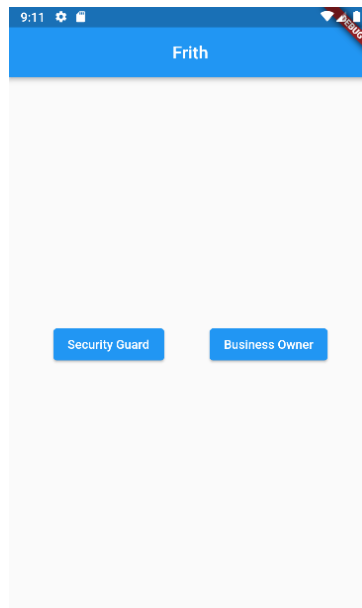


Figure 5

1.3.1 Security Guard

If you select security guard, you will be taken to the login page (figure 6). Here you can enter your username and password, then press login to enter. Secondly, you can choose the signup option.

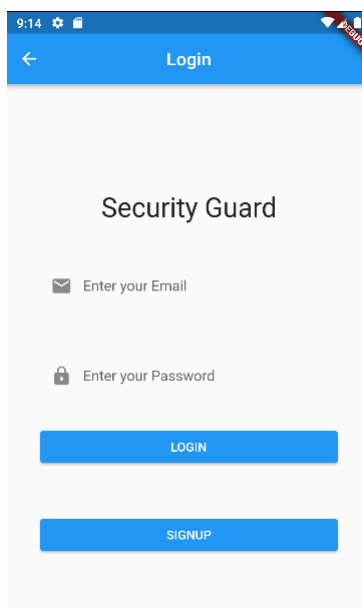


Figure 6

If you select the Sign-Up button, you will be taken to a page where you can fill out your information to create an account (figure 7). If you pressed this by mistake, you could use the back button (Back arrow) at the top left or the log-in button at the bottom to return to the login page. After creating an account, you will be able to log in.

Figure 7

After successfully logging in you will be taken to the security guard home page (figure 8). Here you will have 8 options you can use. Start at the top, you have 3 vertical dots in the top right on the screen. This can be used to log-out. Then you have Flashlight, notepad, request manager, emergency call, incident report, shift manager and request back up.

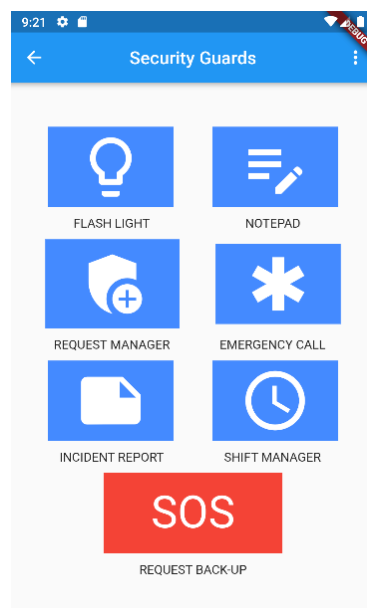


Figure 8

1.3.1.1 Flashlight

Flashlight can be pressed to turn the flashlight on the phone on and off. It will change from white to yellow it is on (figure 9).

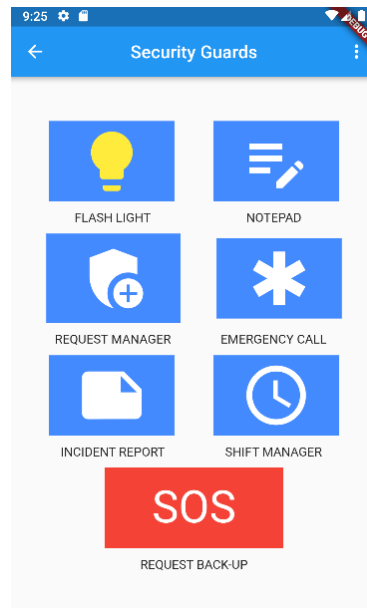


Figure 9

1.3.1.2 Notepad

After pressing the notepad icon, you will be shown a list of saved notes (figure 10). Here you can either press on a note to edit it or press the blue button on the top right “create new note” which will take you to the new note screen. If you select one of the notes, you are taken to the note, which is like the create new note screen which will let you edit the information.

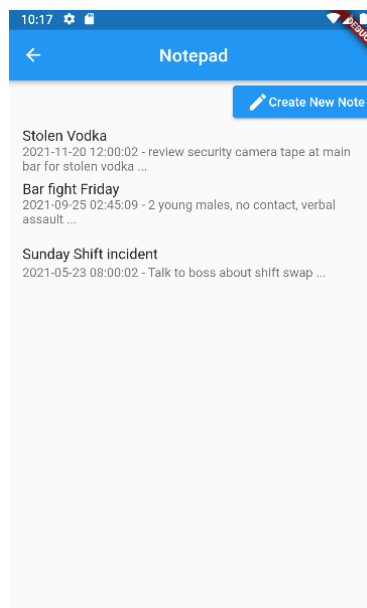


Figure 10

If you select the “create new note” button, you will be taken to the new note screen (figure 11). Here you will need to select the “Title” and “details” and write in what you want to be saved. After, you can press the submit button. Submitting will save the new note, and you will be shown the list of notes again.

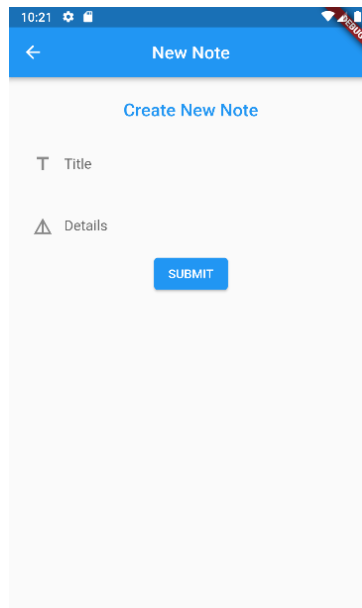


Figure 11

1.3.1.3 Request manager

If you select the “request manager” icon, you will be taken to the list of current backup requests screen (figure 12). Here you will see any current users who have requested back up. Each section will show the users name, location, and time of request. Pressing on any request will take you to a Backup request detail screen.

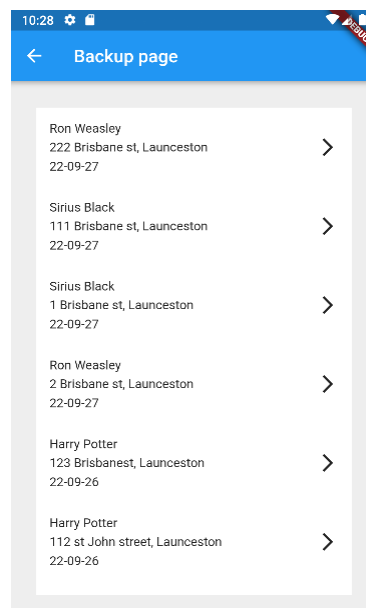


Figure 12

Backup request detail screen is where you can confirm you are on your way or unable. You will see the details of the request of the user (figure 13). Under the details you will see a counter of how many people are on their way. Under this, there are two buttons, “On my way” in green and “Unable”. Pressing “On my way” will let the user know you have accepted the request. “Unable” will let the user know you have declined the request.

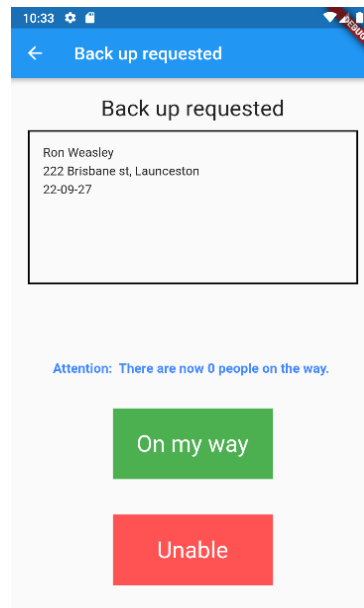


Figure 13

1.3.1.4 Emergency call

If you select the “emergency call” icon, the application will open the call function of your phone will be 000 already added (figure 14).

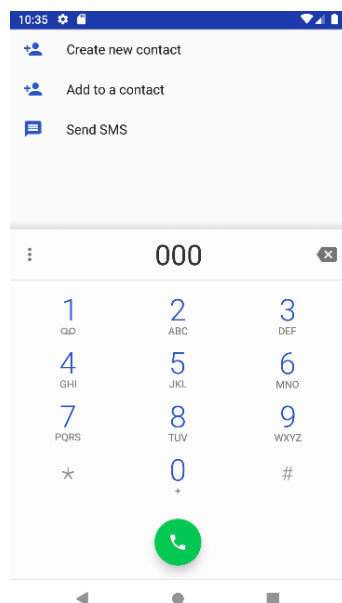


Figure 14

1.3.1.5 Incident report

Selecting the “incident report icon” will take you to the “create new report screen” (figure 15). Here you will have a few options. You can enter the report’s details (location, details, and severity level). You can also delete, submit, load draft and save draft. Deleting will delete this report. Submit will add this report to the database. Save draft will save any details you have filled out. Load draft will show you the list of saved drafts.

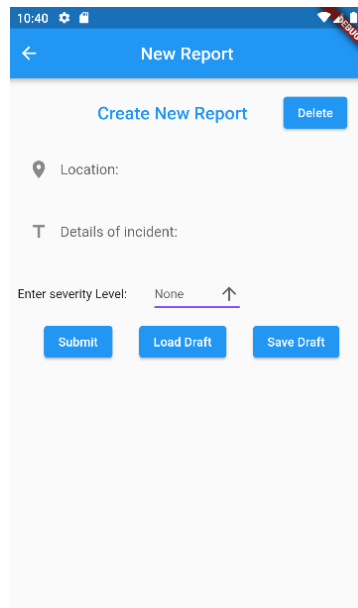


Figure 15

If you select Load drafts, you will be shown a list of saved drafts (figure 16). Here you can either press on a draft to edit it or press the blue button on the top right “create new report” which will take you to the new report screen. If you select one of the reports, you are taken to the report which is like the create new report screen which will let you edit the information.

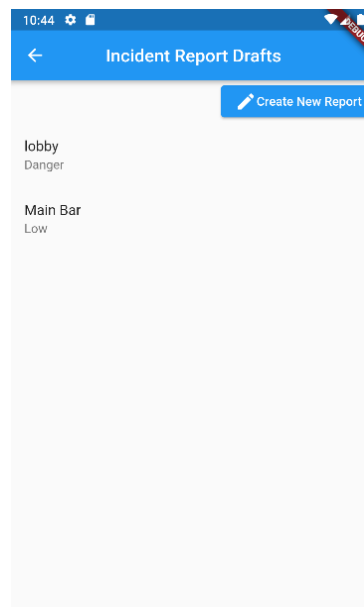


Figure 16

1.3.1.6 Shift manager

If you press shift manager icon you are taken to the “shift clock” screen (figure 17). Here you can select the business you wish to start your shift with for the list. Using the drop-down menu on the next screen you can select the area you wish to start your shift. You have two options after selection, “Start Shift” and “End Shift”. Start shift will only be available if you have selected a new area. Pressing start shift will start your shift. If you are already on shift, you will have the option to end the

shift. If you have already started your shift, but you want to change location, simply select the new area and press start shift. This will swap your location.

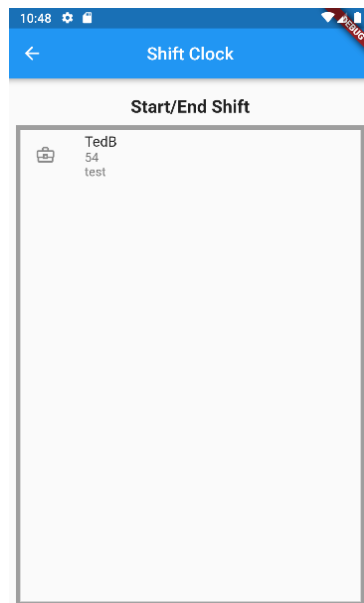


Figure 17

1.3.1.7 Request back up

Pressing the "SOS" icon will show the pop-up in figure 18. Pressing "Yes" will send a backup request to other users on shift. The decline will take you back to the homepage.

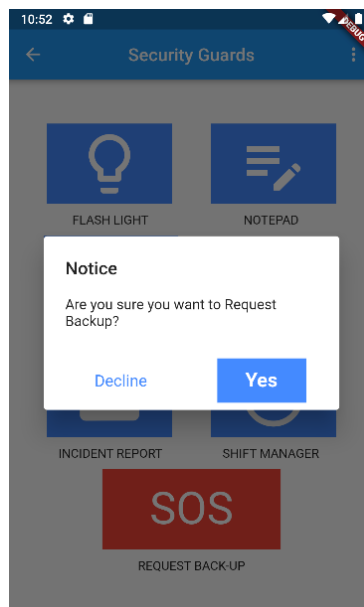


Figure 18

If you select “Yes” you will be taken to the confirmation page (Figure 19).

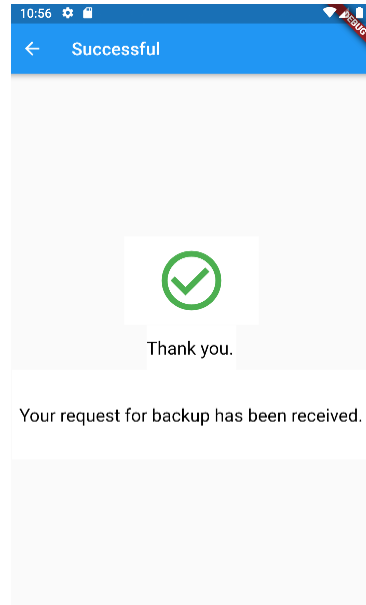


Figure 19

1.3.2 Business Owner

If you select business owner, you will be taken to the login page (Figure 20). Here you can enter your username and password, then press login to enter. Secondly, you can choose the signup option.

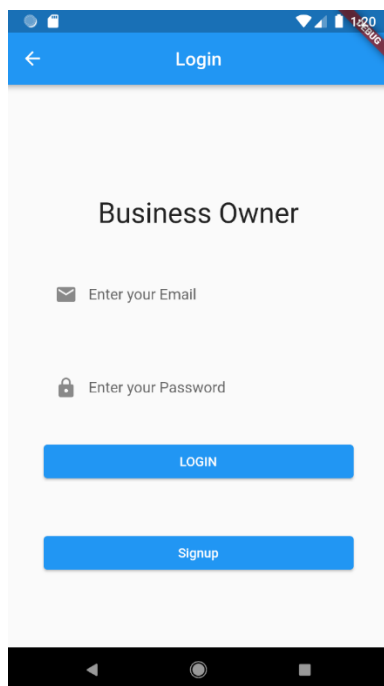


Figure 20

If you select the Sign-Up button, you will be taken to a page where you can fill out your information to create an account (Figure 21, Figure 22). If you pressed this by mistake, you could use the back button (Back arrow) at the top left or the log-in button at the bottom to return to the login page. After creating an account, you will be able to log in.

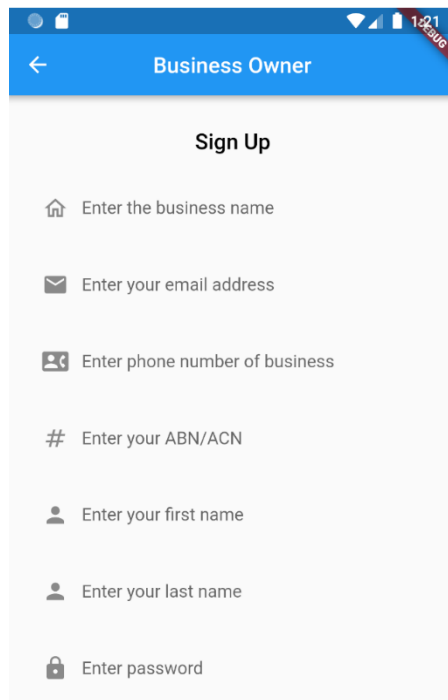


Figure 21

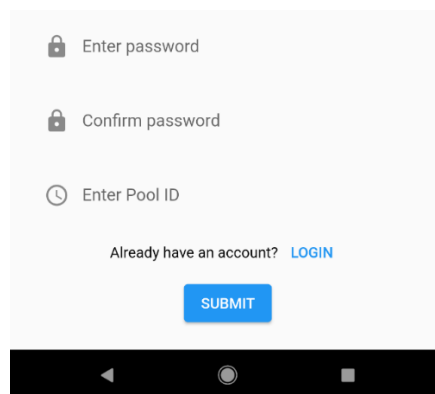


Figure 22

After successfully logging in you will be taken to the business owner home page (figure 23). Here you will have two options that you can use. The first is the event log button, the second is the logout option.

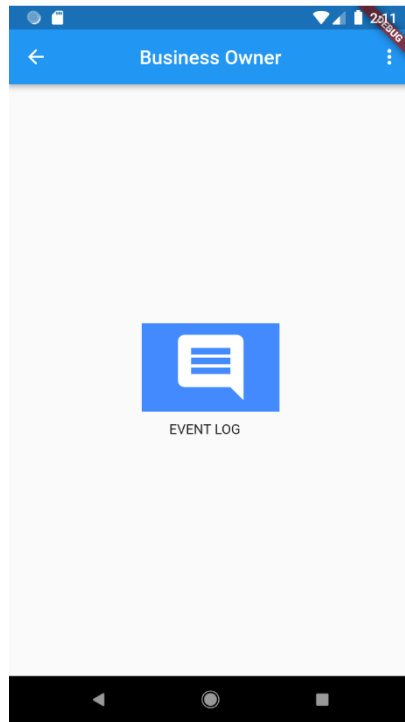


Figure 23

1.3.2.1 Event Log

Upon selecting the Event Log button, you will be taken to the List of Events view (Figure 24). In this view, there are three possible actions. The first is to select an event from the list. The second is to create a new event. The third is to return to the business owner homepage.

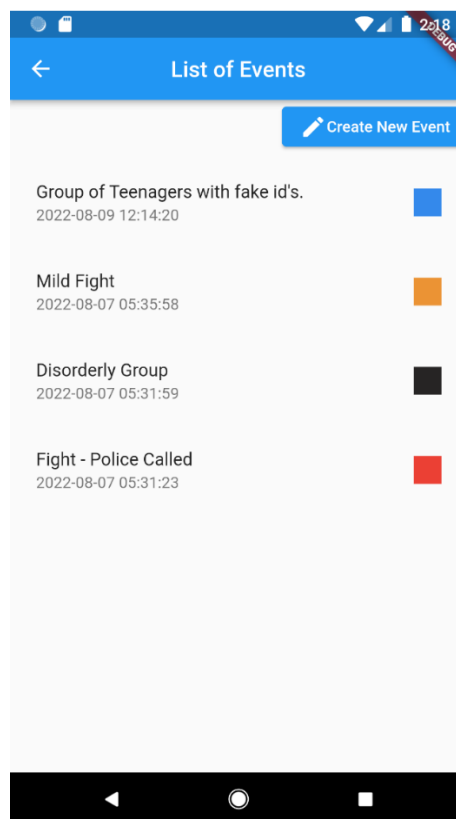


Figure 24

1.3.2.2 Event Log View Event

After selecting an event from the list, the user is presented with further details about the selected event (Figure 25). To return to the previous screen, select the backwards facing arrow at the top left of the screen.

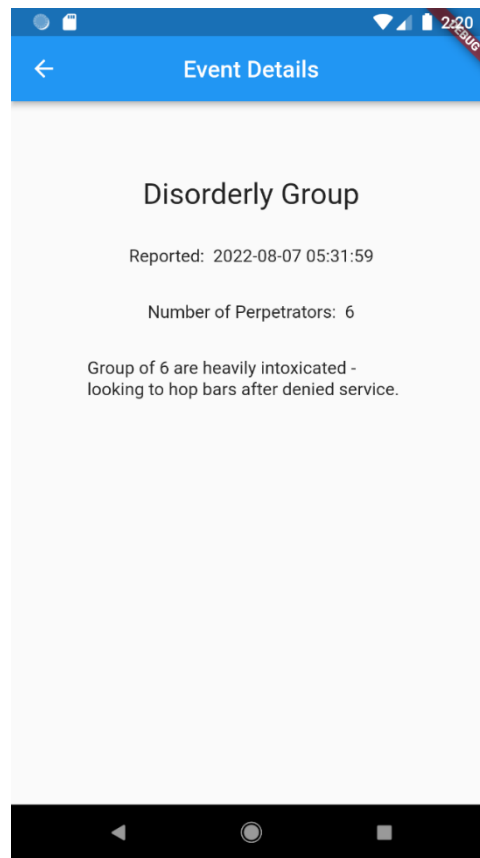


Figure 25

1.3.2.2 Event Log Create Event

Upon selecting the "Create New Event" button, the user is presented with a view that contains a form with the following fields (Figure 26): Title of Event, Severity Level, Number of Perpetrators, Description of Event. The user then has two options: the first is returning to the previous screen by pressing the backwards facing arrow at the top left of the screen, the second is to correctly fill the form and submit the new event. Both actions will result in returning to the previous screen, with the latter adding a new event to the list.

← New Event

Create New Event

T Title of Event

Select Severity Level: None ↑

+ Number of Perpetrators

i Description of Event

SUBMIT

Figure 26

1.3.2.3 Logout

Upon selecting the logout button, the user will be presented with a confirmation window (Figure 27) to ensure that the user wants to logout. If “No” is selected, then the logout action is cancelled and the view returns to the business owner homepage. If “Yes” is selected, then the user is returned to the business login view.

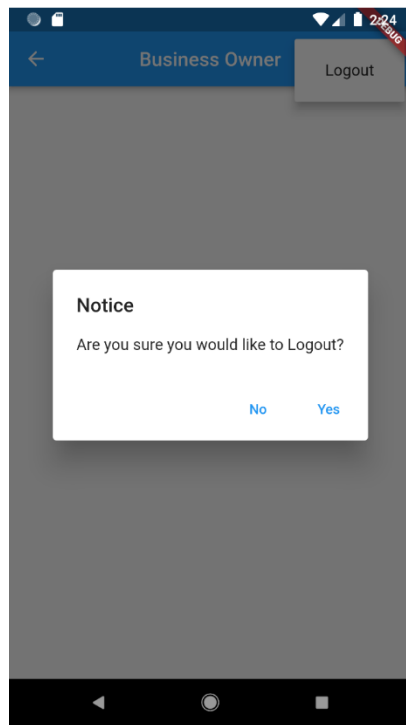


Figure 27

2. Dashboard

2.1 Security Firm Dashboard Login

Upon navigating to the login URL, which is <http://localhost/frith/secfirm/login.php> with current XAMPP configuration, the user is presented with a log in page (Figure 28).

Project Frith
Security Firm

Need an account? [Register for an account](#)

Figure 28

There are two options on this page. The first is to fill out the form and attempt to login. The second is to register an account. Upon selecting the “Register for an account” link, the user is presented

with a registration page (Figure 29) containing a form with the following fields: Security firm name, ABN/ACN, Manager first name, Manager last name, Email address, and Phone number. To return to the previous window, the user may select “Login to your account”.

Register your security firm

Register

Already registered? [Login to your account](#)

Figure 29

Upon registering an account, the user will be taken to a screen that informs them that their request has been received (Figure 30).

Your request has been received!

An email will be sent to you once your account has been verified and approved.

Figure 30

Upon successful login, the user will be presented with the security firm dashboard homepage. This page contains multiple tables relating to the firm, as well as a logout button which returns the user to the login screen (Figure 31).

localhost/frith/secfirm/security_firm_dashboard.php

Logout

Security Key List

Generate a new key

Guard Key	Date Created
1125	2022-09-23
113	2022-05-23
114	2022-05-23
115	2022-05-23

Figure 31

The security firm dashboard homepage contains many tables that relate to the security firm. The first is the Security Key List page (Figure 32). This table displays a list of associated guard keys, as well as when they were created. It also contains a button entitled “Generate a new key”, which creates a new guard key to be assigned to a guard.

Security Key List

Generate a new key

Guard Key	Date Created
1125	2022-09-23
113	2022-05-23
114	2022-05-23
115	2022-05-23
116	2022-05-23
117	2022-05-23
118	2022-05-23
119	2022-05-23
234	2022-09-23
2451	2022-08-22
2595	2022-08-21
4787	2022-05-23
5903	2022-09-23
6557	2022-08-21
6633	2022-05-23
6868	2022-09-23
6905	2022-09-23
7173	2022-09-23
7619	2022-08-21
7867	2022-08-21
917	2022-08-21
9791	2022-09-23

Figure 32

Upon selecting table entry, the user is presented with a popup (Figure 33) signifying whether the key is assigned to a guard.

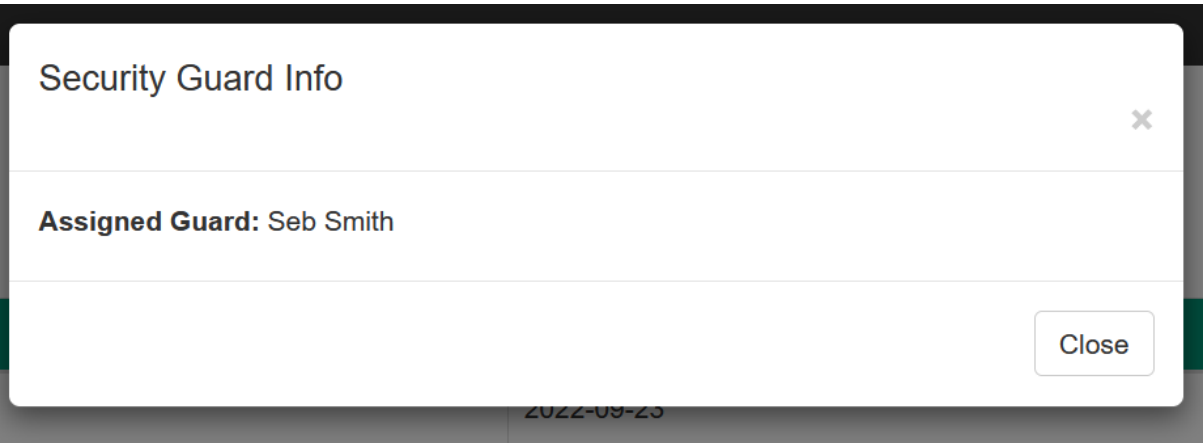


Figure 33

The next table is the Security Guard Account List (Figure 34), which contains a list of associated security guards. This table displays guard names and email addresses.

Security Guard Account List		
Last Name	First Name	Email Address
Smith	Seb	seb@frith.com.au
Jo	Seb	sebttest@frith.com.au
Federer	Roger	some@frith.com.au
Johnson	Michael	something@frith.com.au

Figure 34

The table values are selectable, and when selected a popup screen (Figure 35) appears which contains additional information: Phone number, Assigned Business location, and Submitted Incident Reports.

Security Guard Info

First Name

Seb

Last Name

Smith

Email Address

seb@frith.com.au

Phone Number:

03455322

Assigned Business location

Submitted Incident Reports

Close

Figure 35

The next table contains a list of assigned businesses to the firm (Figure 36). The table contains business name and contact number and is sorted alphabetically by business name.

Assigned Businesses	
Business Name	Contact Number
Apache	32412434
LAMP	3827733
Verizon	23498811

Figure 36

Upon selecting a table entry, a popup window (Figure 37) appears that displays the following details about the business: Business Name, ABN, Phone Number, Email Address, Manager Name, and Guardable Locations.

Business Details

Business Name

Apache

ABN

12343

Phone Number

32412434

Email Address

bus@test.com

Manager Name

seb test

Guardable Locations

testing

Front Garden

North Fence

Close

Figure 37

The final table contains a list of Incident Reports (Figure 38) of guards that are assigned to this firm. The following details are displayed in the table: Guard Key, Business ID, Incident Type, and Date/Time.

Incident Reports

Guard Key	Business ID	Incident Type	Date/Time
113	1	Medium	2022-09-22 13:38:49
113	1	Low	2022-09-12 13:38:55
113	1	High	2022-08-22 12:34:18
113	1	Informative	2022-08-21 17:30:51
113	1	High	2022-08-21 17:29:18
113	1	Medium	2022-08-07 10:20:13

Figure 38

Upon selecting an entry in the table, the user is presented with a popup window (Figure 39) that contains further details about the selected incident report. This window contains the following details: Guard Name, Business Name, Business ID, Time Submitted, Incident Type, Location, and Description.

Incident Report

×

Guard Name
Seb Smith

Business Name
Apache

Business ID
1

Time Submitted
2022-09-22 13:38:49

Incident Type
Medium

Location
Top Bar

Description
Broken glass when refused service. Had to be escorted out.

Close

Figure 39

3. Help or Troubleshooting

Most connection issues will likely be due to incorrect XAMPP configuration. Additionally, ensuring that `global_ip` is correctly assigned is crucial.

Using the command `Flutter Clean Project` and then `Flutter Get Packages` will resolve many build issues upon pulling from GitHub.