

# Department of Computer Science Faculty of Engineering, Built Environment & IT University of Pretoria

# COS301 - Software Engineering

# Coviduous

User Manual

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# 1 Introduction

Coviduous is an app that companies and their employees can use to facilitate office space bookings during the COVID-19 pandemic. The app is divided into two distinct subsystems, related to the two different types of customers mentioned before. The User subsystem is how employees will interact with the app. They have the option to view available office spaces, book an office space, view their current bookings, and view announcements that are sent to them by their companies. The Admin subsystem is how employers will interact with the app. They have the option to add floor plans, view announcements they have made, create a new announcement, and delete an announcement.

The following sections detail how to install and use the app in its current state.

### 2 Installation

To install the app on Android, first download the repository from GitHub onto your local machine:

- In a web browser, go to https://github.com/COS301-SE-2021/Coviduous, click on the green "Code" button, and then "Download ZIP". (See figures 1 and 2)
- Extract the .zip archive to a new folder anywhere on your computer.
- Open the command prompt and change the directory to the folder where you unzipped the archive. For example, the current directory should now be:

  "C:/Users/[current user]/Downloads/Coviduous-master". (See figure 3)
- Change the directory again to the "/login app" subfolder. (See figure 4)

To generate a .apk (runnable app) file from the code, run "flutter build apk –release" from the command line while inside the "/login\_app" subfolder. Once it completes, there will now be an "app-release.apk" file in "/login\_app/build/app/outputs/flutter-apk". Transfer this file to your phone and install it. (See figures 5 and 6)

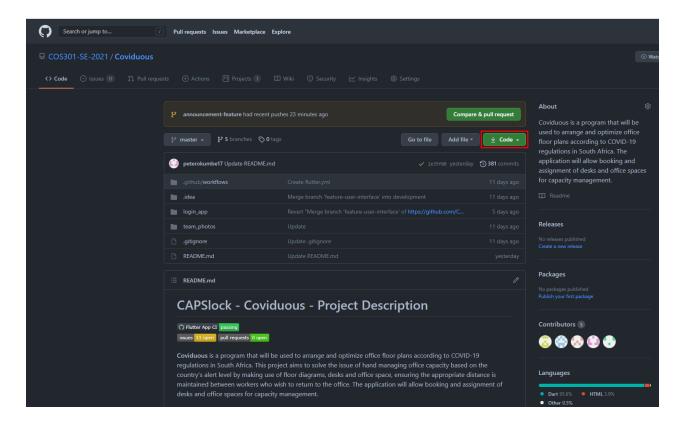


Figure 1: Coviduous GitHub repository

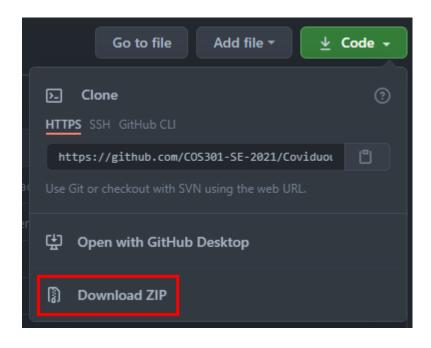


Figure 2: Download button

```
C:\Users\\\\ \Downloads\Coviduous-master\
```

Figure 3: Command prompt, in main directory

Figure 4: Command prompt, in login\_app directory

Figure 5: Compiling the app

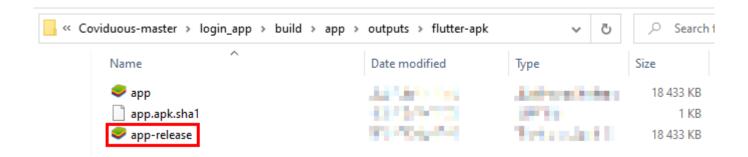


Figure 6: Output .apk file

# 3 Login

When first opening the app, you are greeted with the login page. If you already have an account, you can enter your email address and password, select your user type, and tap on the "Submit" button. Depending on your user type (user or admin), you will be taken to either the user homepage or admin homepage. Admins are the employers in charge of a company and users are the employees.

If you forgot your password, you can tap on the "Forgot password?" text to take you to the password reset screen.

If you do not have an account, you can tap on the "Register" button in the top right corner of the screen, which will take you to the main registration screen.

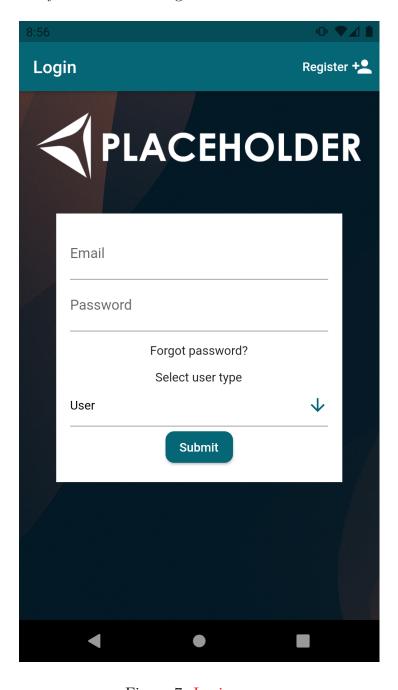


Figure 7: Login screen

# 3.1 Reset password

To reset your password, enter the email address you registered with, and tap "Reset password". An email will then be sent to you, containing instructions on how to reset your password.

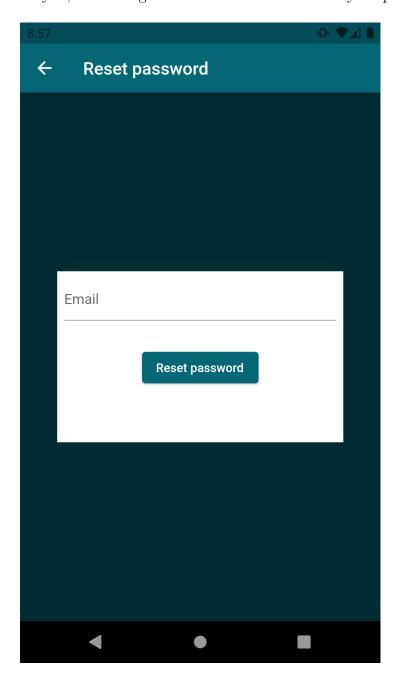


Figure 8: Reset password screen

# 4 Register

This page gives you the option to register as either an admin or a user. Tap on either button to go to the appropriate registration page.

Tap on the "Log in" button in the top right corner of the screen to return to the login screen.

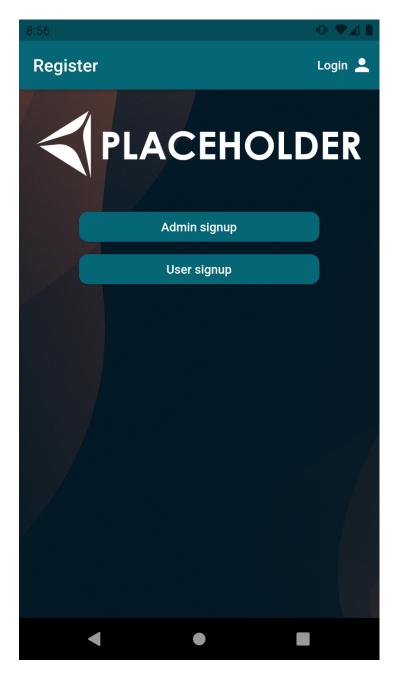


Figure 9: Registration screen

# 4.1 Register as an admin

To register a new account, enter your first name, last name (family name), email address, a username, a password, a company ID, your company name, and your company address. Confirm your password in the "confirm password" box as well, and then select "Submit". If your account creation was successful, you will be redirected to the login screen to sign in.



Figure 10: Admin registration screen

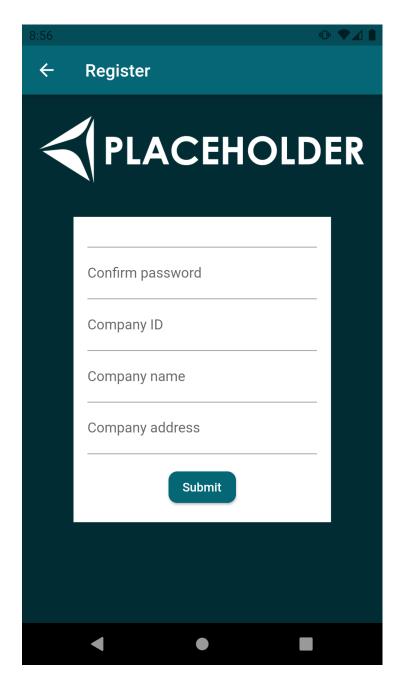


Figure 11: Admin registration screen

## 4.2 Register as a user

Similarly to the admin registration page, enter your first name, last name (family name), email address, a username, a password, and the company ID provided by your admin. Confirm your password in the "confirm password" box as well, and then select "Submit". If your account creation was successful, you will be redirected to the login screen to sign in.

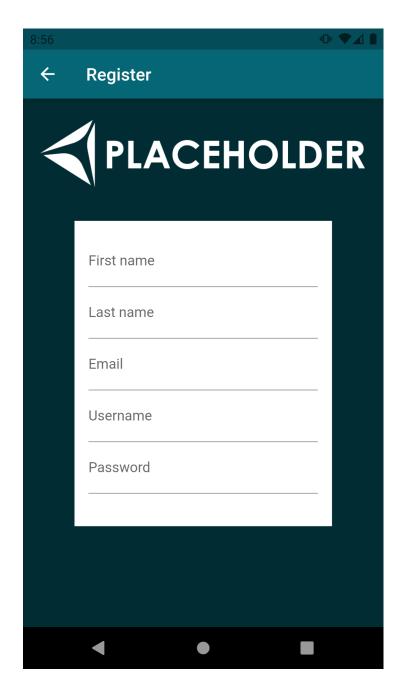


Figure 12: User registration screen

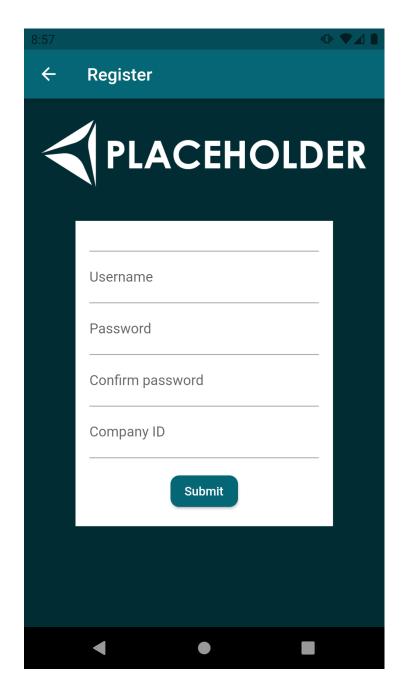


Figure 13: User registration screen

# 5 User homepage

On the user homepage, you are given a selection of buttons, which will take you to different parts of the app. You can also log out by tapping the "Log out" button at the bottom right of the screen, or manage your personal account by tapping the "Manage account" button at the bottom left of the screen.

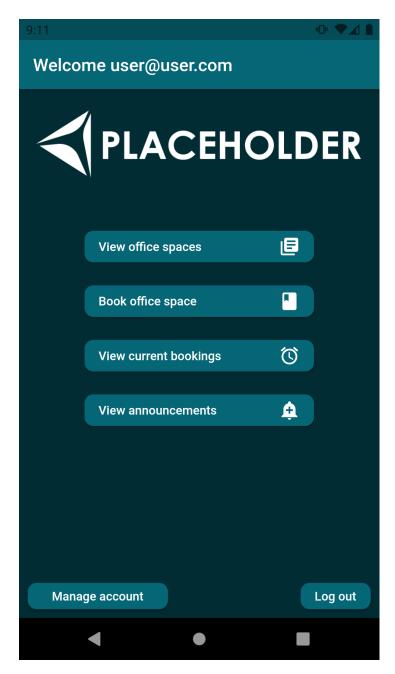


Figure 14: User homepage

## 5.1 View office spaces

On this screen, you can view office spaces (floor plans) your company has created. If there are none, a message will be displayed to inform you. In that case, please contact your admins.

Each space will be listed, showing the number of floors, the number of rooms, the maximum capacity of the building, and the current capacity. You can tap the back button to return to the user

homepage.

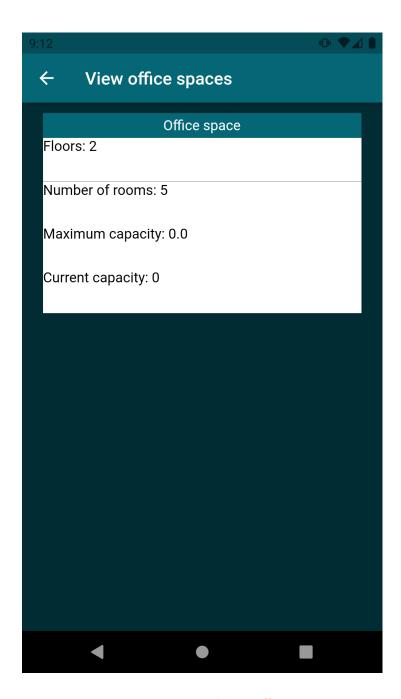


Figure 15: View available office spaces

# 5.2 Book office space

On this screen, you can book an available office space. Start by selecting the floor in which you would like to book.

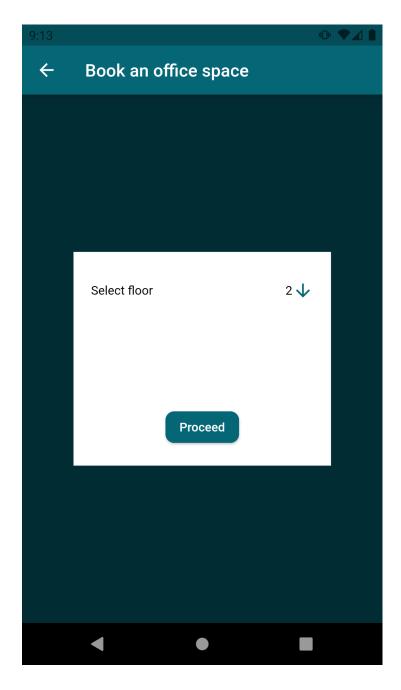


Figure 16: Book an office space

# 5.3 View current bookings

This screen will show your current bookings. It displays your username, the date you booked, and the space in the building you booked.

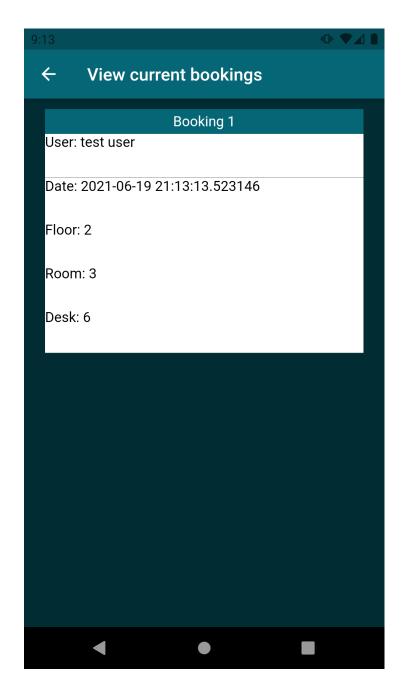


Figure 17: View current bookings

#### 5.4 View announcements

This screen will show announcements your company admins have made in a list format. Each list item shows the announcement type (general or emergency), date and message.

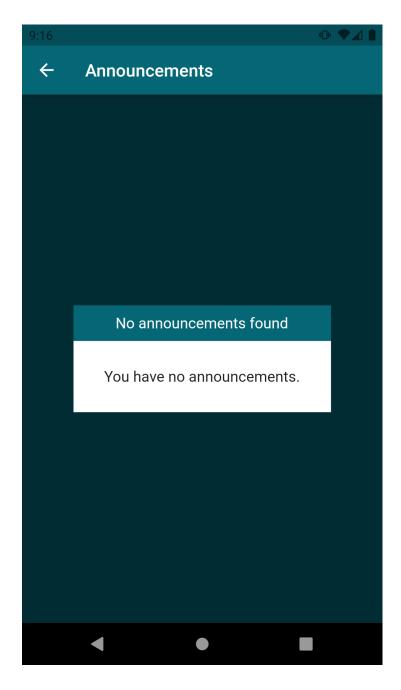


Figure 18: View company announcements

# 5.5 Manage account

On this screen, you can choose to update your account credentials (email, username, etc.), reset your password, or delete your account.

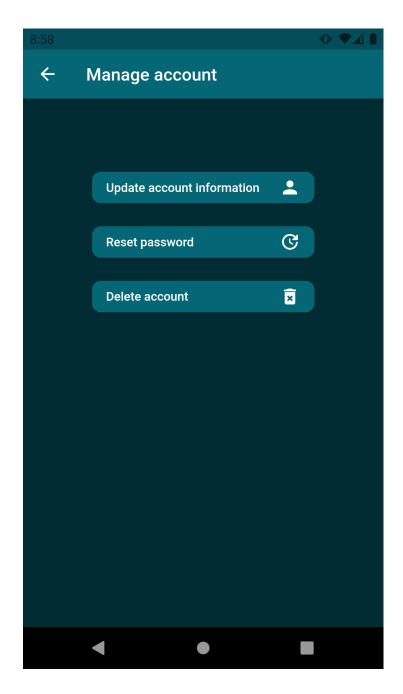


Figure 19: User manage account

#### 5.5.1 Update account information

On this screen, you can update your account information, such as your name or email address. You are also required to enter your current password and confirm that you allow these changes to be made.

You can tap the back button to return to the manage account screen.

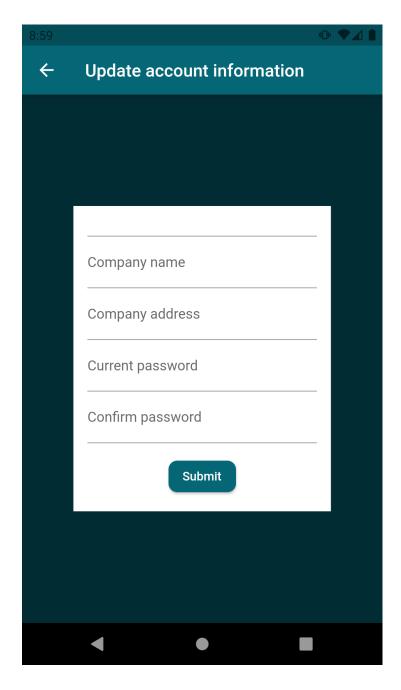


Figure 20: Update account information

#### 5.5.2 Reset password

To reset your password, enter the email address you registered with, and tap "Reset password". An email will then be sent to you, containing instructions on how to reset your password.

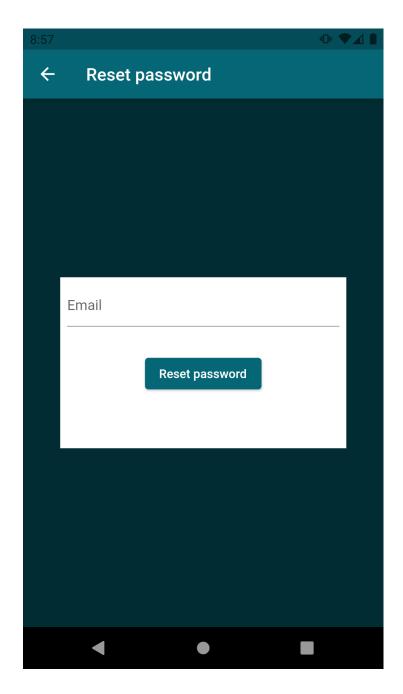


Figure 21: Reset password screen

#### 5.5.3 Delete account

To delete your account, enter your email, password, and company ID. A dialog box will pop up to confirm whether you really want to delete your account or not. Please note that this operation is **not** reversible if you choose to go through with it. After your account is deleted, you will be returned to the login screen.

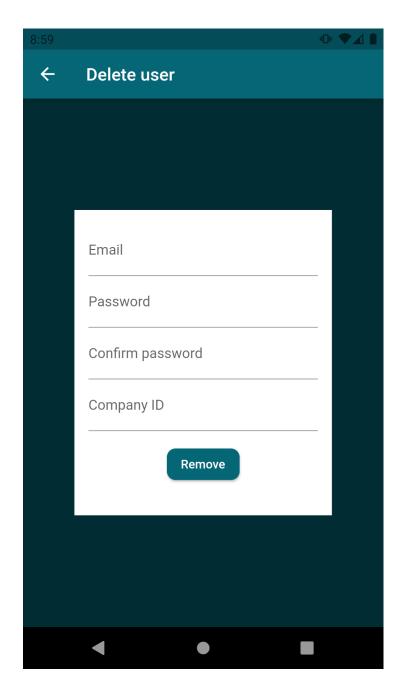


Figure 22: Delete account screen

# 6 Admin homepage

On the admin homepage, you are also given a selection of buttons, which will take you to different parts of the app, which are explained in the sections below. You can also log out by tapping the "Log out" button at the bottom right of the screen, or manage your company's account by tapping the "Manage account" button at the bottom left of the screen.

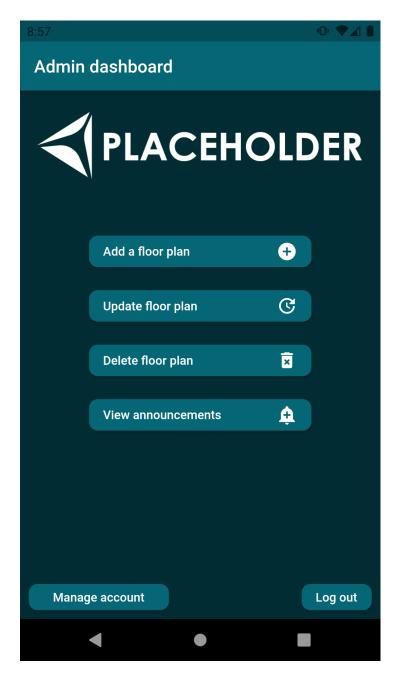


Figure 23: Admin homepage

## 6.1 Add floor plan

On this screen, you can add a new floor plan to your company through which employees can book. Enter the number of floors, the number of rooms, the maximum capacity and the current capacity. You can tap the back button to return to the admin homepage.

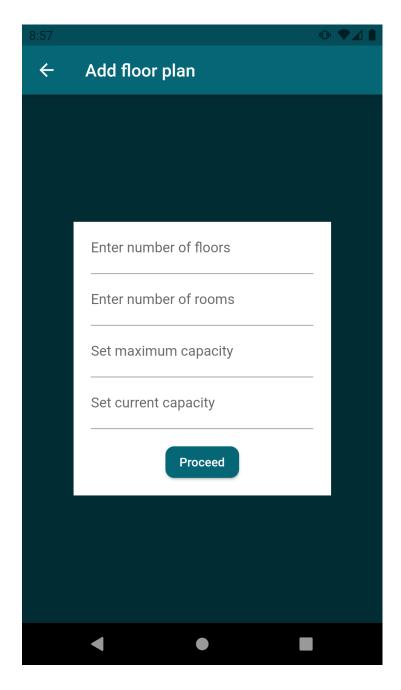


Figure 24: Add a floor plan

#### 6.2 View announcements

This screen will show announcements you or your fellow admins have made in a list format. Each list item shows the announcement ID, type (general or emergency), date and message. You also have buttons at the bottom of the screen which allow you to create or delete announcements.

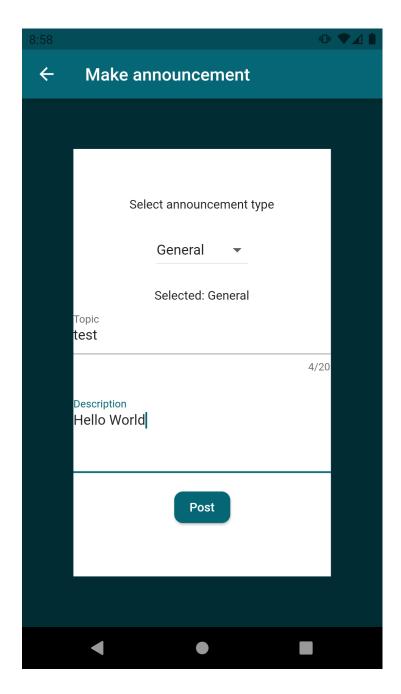


Figure 25: View announcements you or other admins have made

#### 6.2.1 Create announcement

On this screen, you can create a new announcement. Select its type, enter a topic, and enter a message to display.

You can tap the back button to return to the view announcements page.

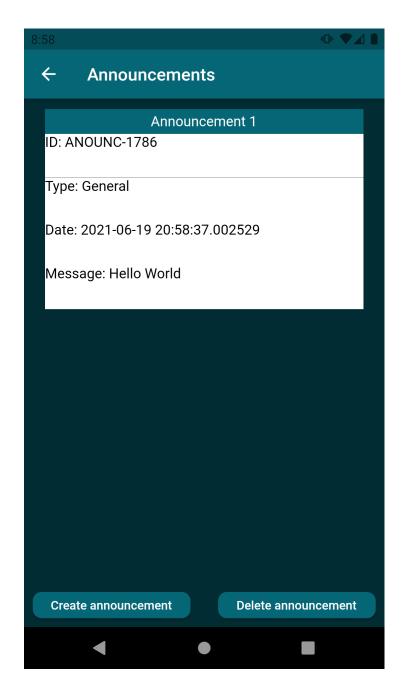


Figure 26: Create a new announcement

#### 6.2.2 Delete announcement

On this screen, you can delete an announcement by entering its ID in the text field and tapping "Proceed". This will remove the announcement and prevent it from showing in both the admin and user "view announcements" pages.

You can tap the back button to return to the view announcements page.

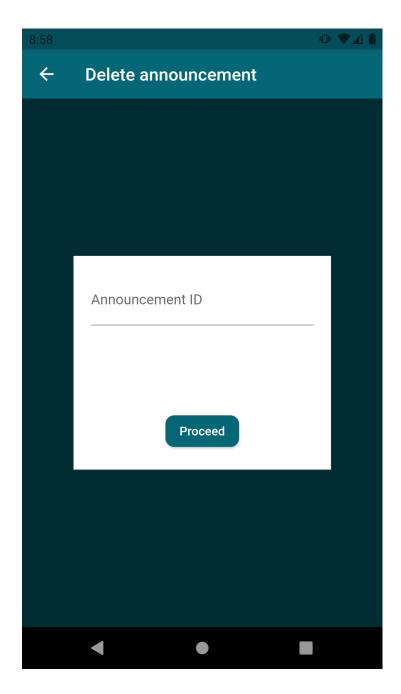


Figure 27: Delete an announcement

# 6.3 Manage account

On this screen, you can choose to update your account credentials (email, username, etc.), reset your password, or delete your account.

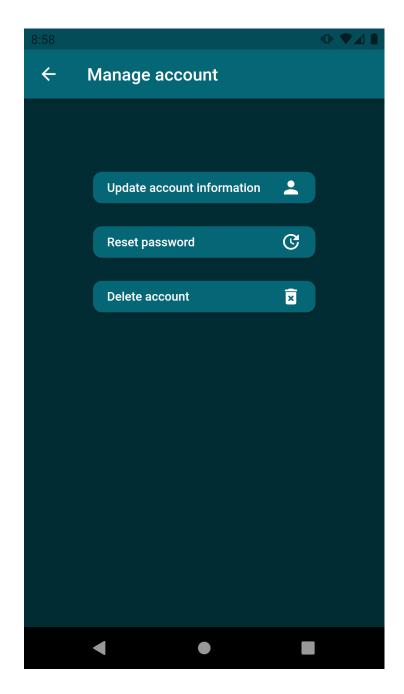


Figure 28: Admin manage account

#### 6.3.1 Update account information

On this screen, you can update your account information, such as your name or email address. You are also required to enter your current password and confirm that you allow these changes to be made.

You can tap the back button to return to the manage account screen.

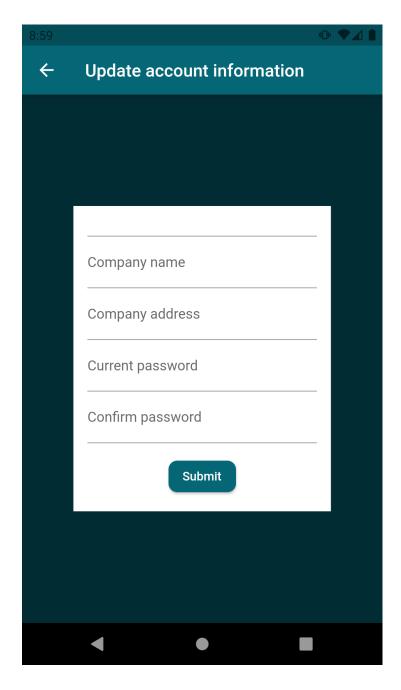


Figure 29: Update account information

#### 6.3.2 Reset password

To reset your password, enter the email address you registered with, and tap "Reset password". An email will then be sent to you, containing instructions on how to reset your password.

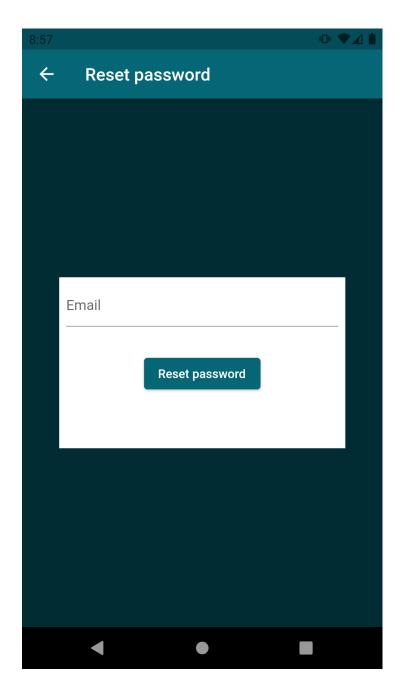


Figure 30: Reset password screen

#### 6.3.3 Delete account

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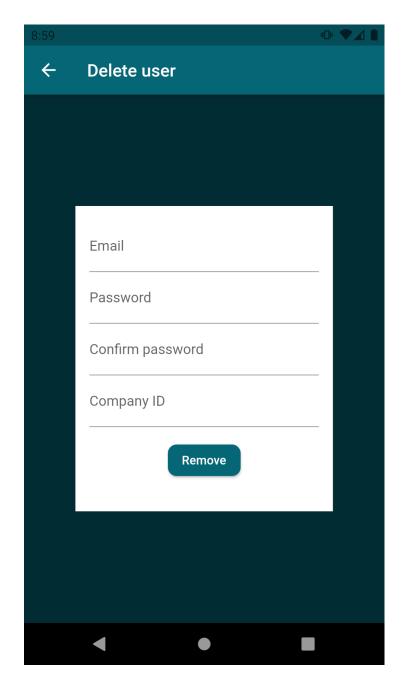


Figure 31: Delete account screen