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## COS301 - Software Engineering

### Coviduous

#### Installation 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, view announcements that are made by their companies, view notifications sent to them, and manage their COVID-related health documentation. The **Admin** subsystem is how employers will interact with the app. They have the option to manage floor plans, manage employee shifts, manage company-wide announcements, send notifications to employees, and view reports based on their company's statistics.

The following section details how to install 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 "/frontend" 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 "/frontend" subfolder. Once it completes, there will now be an "app-release.apk" file in "/frontend/build/app/outputs/flutter-apk". Transfer this file to your phone and install it. (See figures 5 and 6)

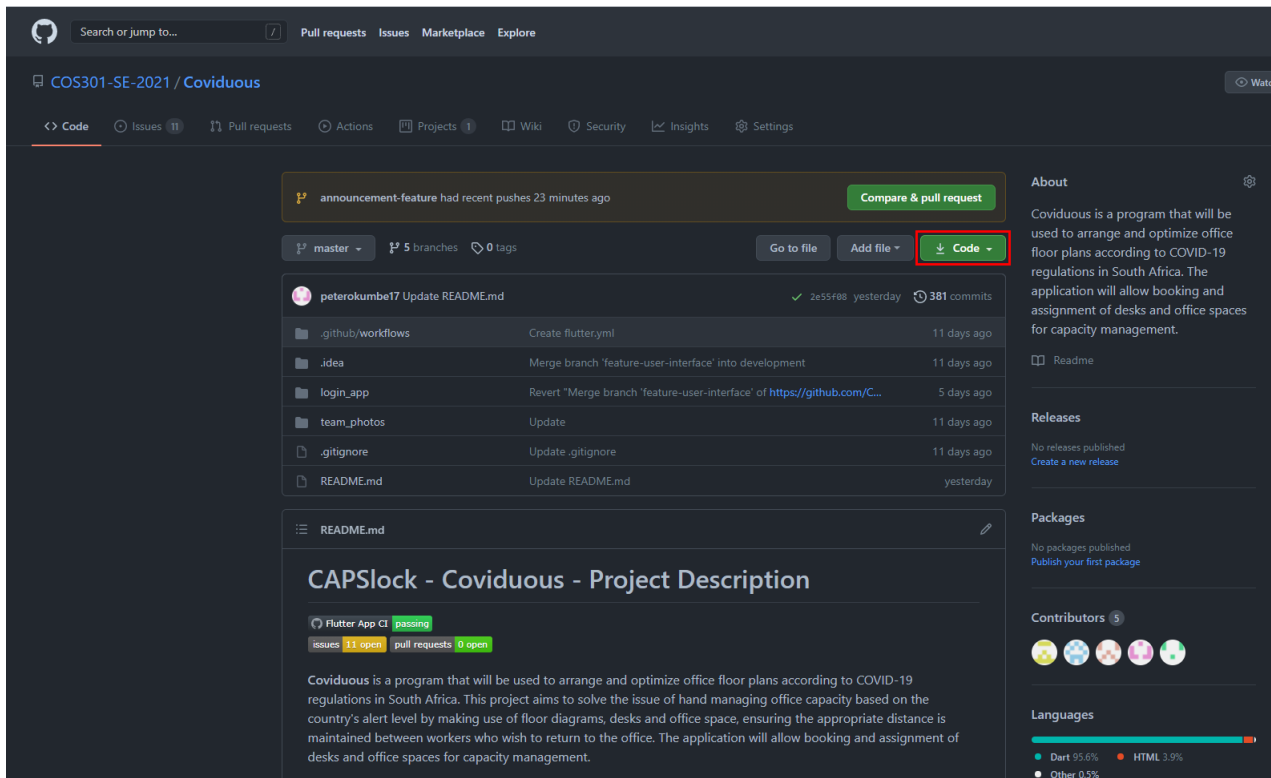


Figure 1: COVIDUOUS GitHub repository

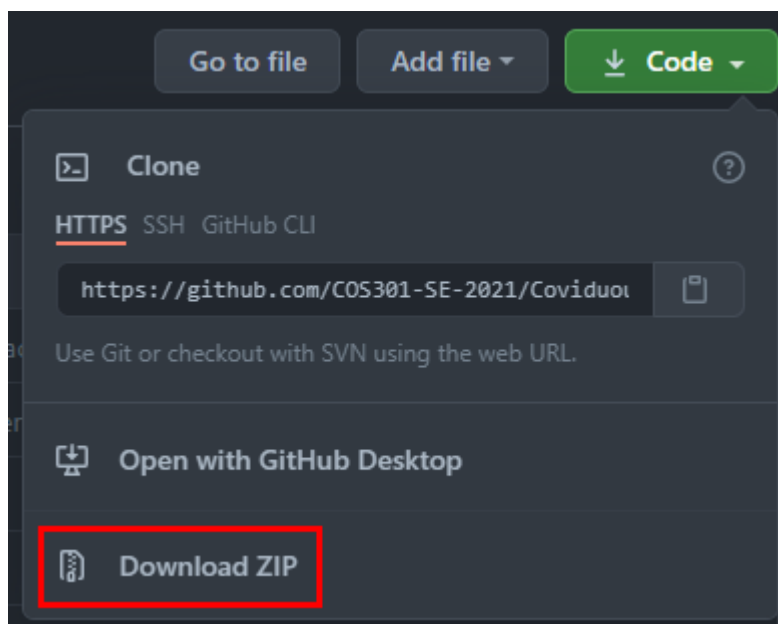


Figure 2: Download button

```
Command Prompt
Microsoft Windows [Version 10.0.19041.1052]
(c) Microsoft Corporation. All rights reserved.

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

Figure 3: Command prompt, in main directory

```
Command Prompt
Microsoft Windows [Version 10.0.19041.1052]
(c) Microsoft Corporation. All rights reserved.

C:\Users\>cd C:\Users\Downloads\Coviduous-master
C:\Users\Downloads\Coviduous-master>cd frontend
C:\Users\Downloads\Coviduous-master\frontend>
```

Figure 4: Command prompt, in login\_app directory

```
Command Prompt
Microsoft Windows [Version 10.0.19041.1052]
(c) Microsoft Corporation. All rights reserved.

C:\Users\>cd C:\Users\Downloads\Coviduous-master
C:\Users\Downloads\Coviduous-master>cd frontend
C:\Users\Downloads\Coviduous-master\frontend>flutter build apk --release
Running "flutter pub get" in frontend... 1 731ms

Building without sound null safety
For more information see https://dart.dev/null-safety/unsound-null-safety

WARNING: [Processor] Library 'C:\Users\Downloads\Coviduous-master\frontend\build\app\outputs\flutter-apk\app-release.apk' contains references to both AndroidX and old support library. This seems like the library is partially migrated. Jetifier will try to rewrite the library anyway.
Example of androidX reference: 'androidX/test/runner/lifecycle/Stage'
Example of support library reference: 'android/support/annotation/NonNull'
Running Gradle task 'assembleRelease'... Done 114,3s
✓ Built build\app\outputs\flutter-apk\app-release.apk (18.0MB).

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

Figure 5: Compiling the app

C:\Users\Downloads\Coviduous-master\frontend\build\app\outputs\flutter-apk			
Name	Date modified	Type	Size
app			18 433 KB
app.apk.sha1			1 KB
app-release			18 433 KB

Figure 6: Output .apk file