



Université des Mascareignes

Faculty of Information and Communication Technology

Licence Technologique en Informatique Appliquée

3ème année

Semestre 5

PMH

TP3

Par: Ken Addison Chan Yin Shin THIBAUD

Destinataire: MR. S. Beehary

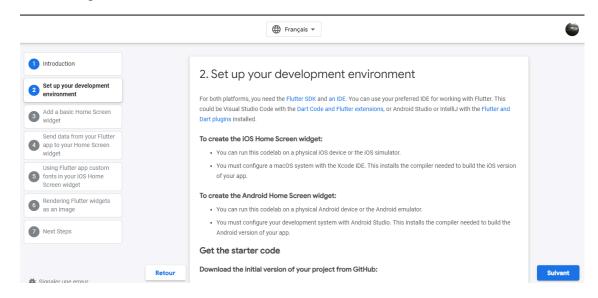
Date: 03/02/2024





Task 1

Home widgets serve as a quick and efficient means to relay information on a phone screen. By adhering to the code lab examples and referencing the codes on GitHub, we will construct an app designed for demonstrating the capabilities of home widgets.



Get the starter code

Download the initial version of your project from GitHub:

From the command line, clone the GitHub repository into a flutter-codelabs directory:

git clone https://github.com/flutter/codelabs.git flutter-codelabs

After cloning the repo, you can find the code for this codelab in the flutter-codelabs/homescreen_codelab directory. This directory contains completed project code for each step in the codelab.

Open the starter app

Open the flutter-codelabs/homescreen_codelab/step_03 directory into your preferred IDE.

Install packages

All required packages were added to the project's pubspec.yaml file. To retrieve the project dependencies, run the following command:

flutter pub get

Regrettably, the homescreen_codelab did not function as expected, and I encountered numerous issues with the Flutter codelabs' GitHub codes. Even attempting to clone the repository proved unsuccessful, leading me to manually replicate the process.





```
PROBLEMS 3
              OUTPUT
                                         SEARCH ERROR
                                                       COMMENTS
                                                                   DEBUG CONSOLE
                                                                                   EXPLORER
                       TERMINAL
                                  PORTS
PS C:\Users\User\OneDrive\Documents\flutter projects\ses\home_widget_app> flutter pub get
Resolving dependencies... (1.1s)
 flutter_lints 2.0.3 (3.0.1 available)
 lints 2.1.1 (3.0.0 available)
 matcher 0.12.16 (0.12.16+1 available)
 material_color_utilities 0.5.0 (0.8.0 available)
 meta 1.10.0 (1.11.0 available)
 path 1.8.3 (1.9.0 available)
 test_api 0.6.1 (0.7.0 available)
 web 0.3.0 (0.4.0 available)
Got dependencies!
8 packages have newer versions incompatible with dependency constraints.
Try `flutter pub outdated` for more information.
PS C:\Users\User\OneDrive\Documents\flutter projects\ses\home_widget_app> []
```

Inspect the sample code

When you submit the form, Android Studio creates and updates several files. The changes relevant for this codelab are listed in the table below

Action	Target File	Change
Update	AndroidManifest.xml	Adds a new receiver which registers the NewsWidget.
Create	res/layout/news_widget.xml	Defines Home Screen widget UI.
Create	res/xml/news_widget_info.xml	Defines your Home Screen widget configuration. You can adjust the dimensions or name of your widget in this file.
Create	java/com/example/homescreen_widgets/NewsWidget.kt	Contains your Kotlin code to add functionality to your Home Screen widget.

You can find more detail on these files throughout this codelab.





In the "lib" folder, four pages have been established: 1. main.dart, 2. Home_screen.dart, 3. Article_screen.dart, and 4. News_screen.dart. The widgets were designed to facilitate the viewing of news available on the News_screen.dart through a home widget displayed on the home screen of the emulator.



