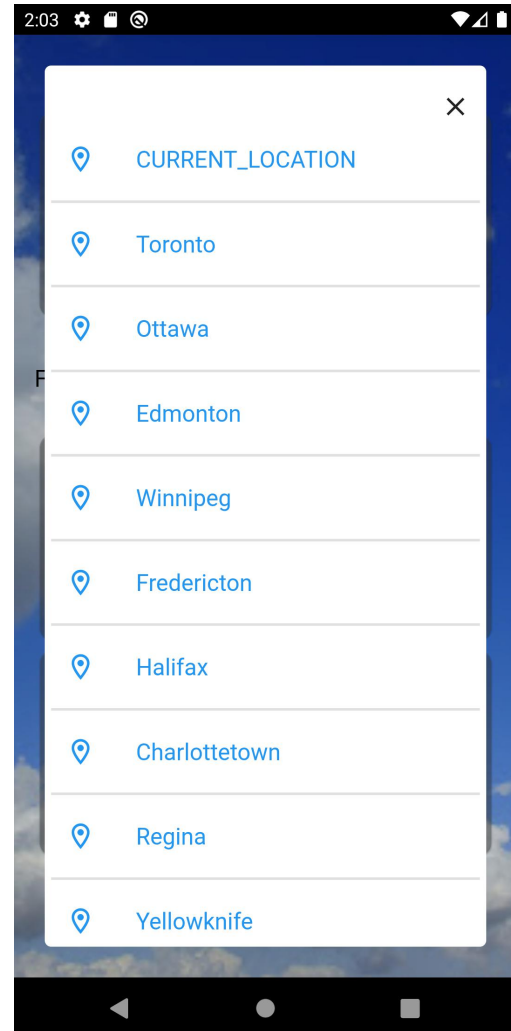
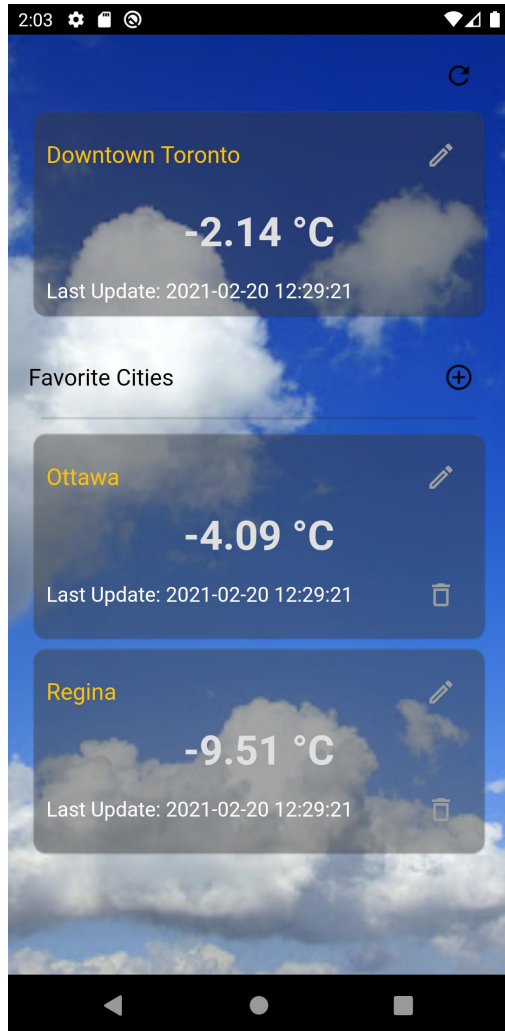
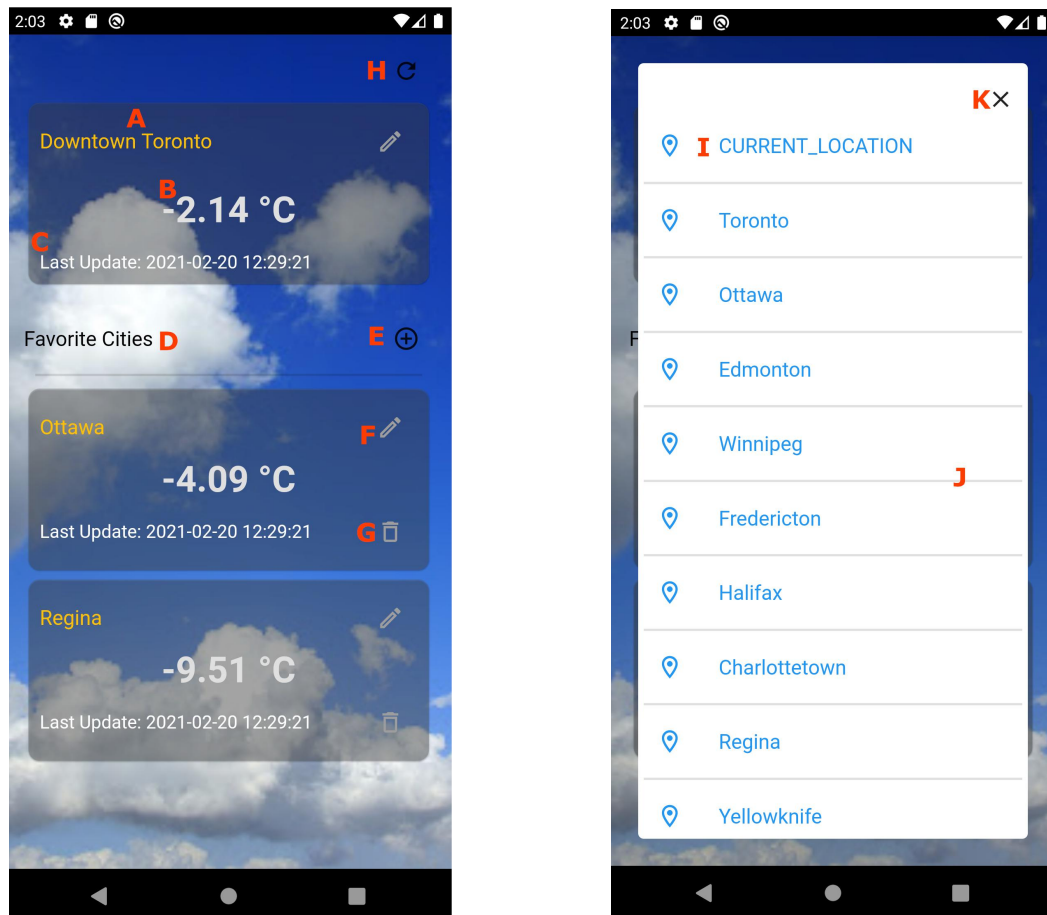


## THINKIFIC WEATHER APP



- USER MANUAL
- Code Structure

## USER MANUAL



**A** - The name of user selected city or the mapped location to the the device coordination

**B** - The last temperature in Celsius. The value update every 5 minutes

**C** - The last date and time the temperature recorded. It update every 5 minutes

**D** - Favorite section. User selected location

**E** - User can add as many as location by tapping on the button. A new view pops up to let user to select a new location or the current location. Selected location will persist in device storage.

**F** - User can edit the whether card location by clicking on the pencil button. A new view pops up to let user select a new location or the current location

**G** - User added weather card can be deleted by tapping on the delete button

**H** - User can refresh the measured data, any time without waiting for the refresh interval

By tapping on the Edit (F) or Add (E) button. The editor modal pops up to let user to add or modify a weather card.

**I** - User can select the current location. The app track user movement and update the temperature every 5 minutes

**J** - Beside GPS location user can select a city from the list - the selected location temperature updates every 5 minutes

**K** - User can dismiss the Add or the Edit action by clicking on the “x” button

\* user need to allow the app to have access to their location. Otherwise the live location wont be available. User notifies by a proper message

\* application needs to have access to the internet. No connectivity message shows in case of network problem

## CODE STRUCTURE

The application contains of two views (a main view and a pops up view). To render the pages and keep their state, I've decided to leverage a custom design of BloC pattern. The file/folder structure described bellow.

### lib

#### models

user_location.dart	=>	model user selected locations
weather_info.dart	=>	model the data retrieve from the server (OWM)
weather_main_part.dart	=>	model the data retrieve from the server

#### platform

##### constants

app_constants.dart	=>	application global constant
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##### utils

conectivity.dart	=>	a helper to check the internet connectivity
geolocator.dart	=>	a helper module to get the device's location
http_helper.dart	=>	a helper module to call the external services

#### widgets

app_modal.widget.dart	=>	a reusable modal widget
app_text_box.widget.dart	=>	a reusable text box widget
favorite_button.widget.dart	=>	a reusable favorite button
refresh_button.widget.dart	=>	a reusable refresh button
weather_card.widget.dart	=>	a reusable weather card

### state\_management

app\_bloc.dart => application custom designed BloC module  
app\_store.dart => application store (Single source of truth)

### views

app\_scaffold.widget.dart => application scaffold view (main page here)

### widgets

editor\_content.widget.dart => pops up editor contents widget  
editor\_row.widget.dart => editor contents row widget  
favorite\_content.widget.dart => favorite section content widget  
home\_content.widget.dart => home screen content widget

main.dart => application entry point

THINKIFIC WEATHER APP.pdf => this document!