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# Corona Reminder

## Description

Corona Reminder is an application that reminds users of Covid-19 recommendations before going to a place. Beyond that, it is possible to see Corona numbers in all the world and track a specific country.

## Intended User

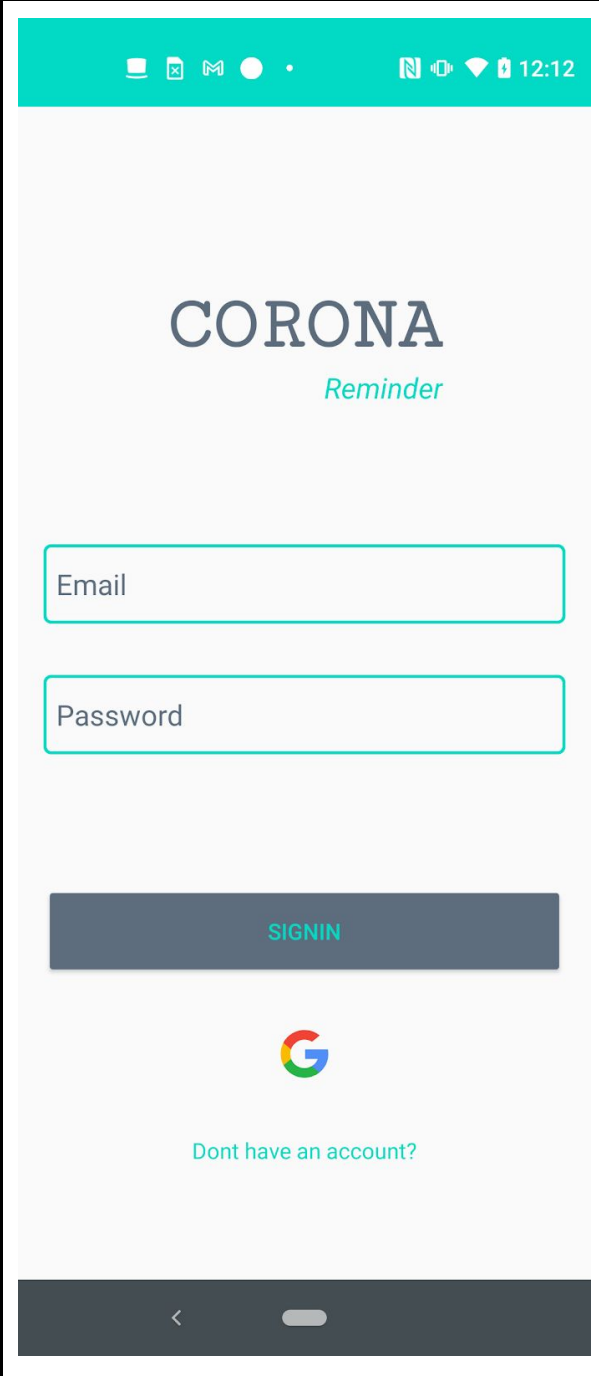
People that want to find a job in the United States.

## Features

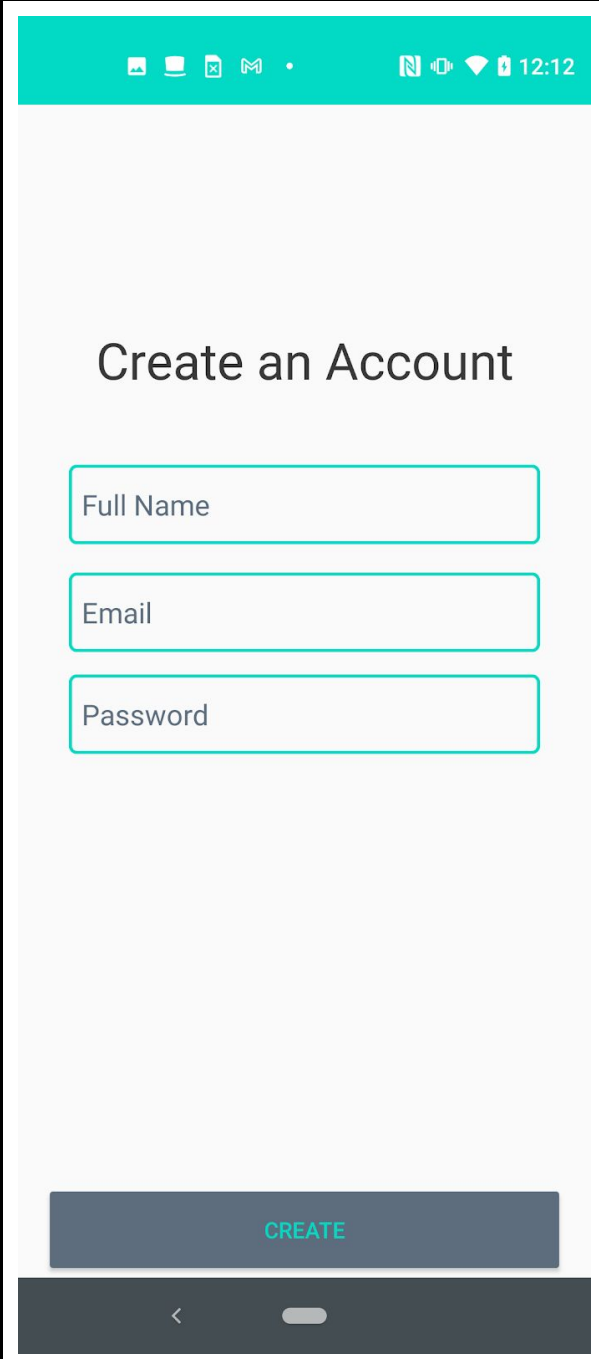
- Sign in with a Gmail or Email account;
- Sign up new account
- See Covid-19 informations about world and countries
- Create alarm to reminder user about recommendations
- List history of alarm

# User Interface Prototype

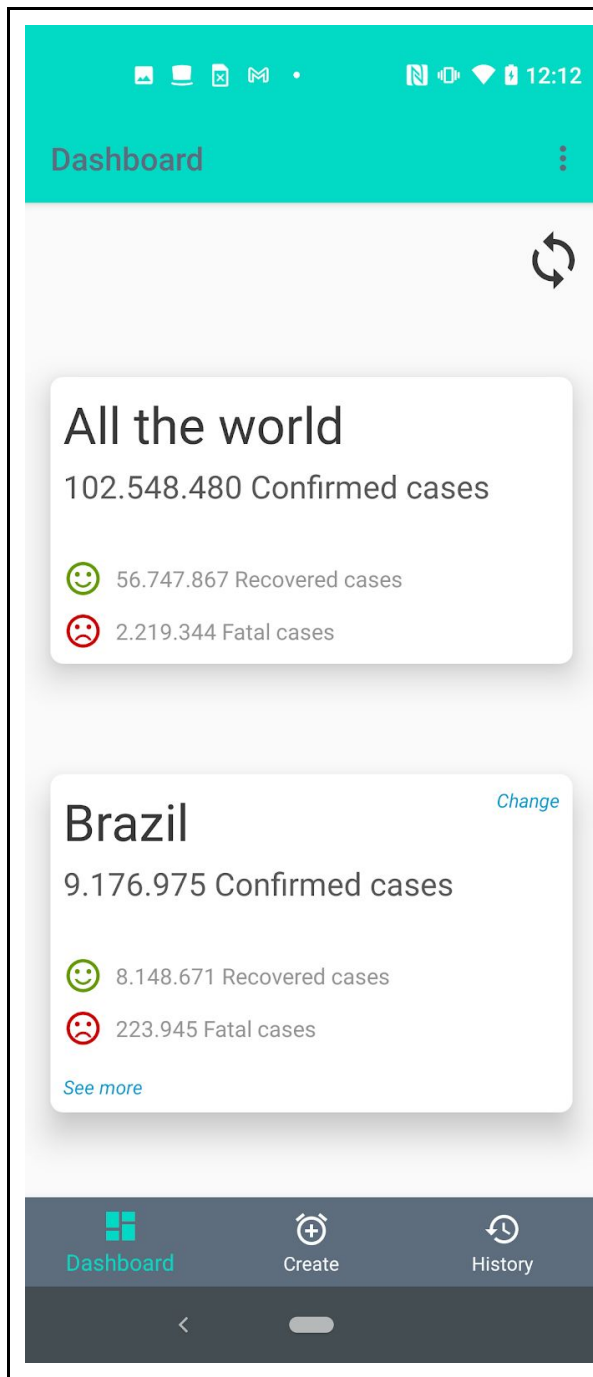
## Sign in

	<p>The first screen of the app. User can sign in using email or gmail</p>
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## Sign Up

 <p>The image shows a mobile application interface for creating a new account. At the top, there is a teal status bar with various icons and the time 12:12. Below this, the main content area has a light gray background. The title 'Create an Account' is centered in a large, dark font. Underneath the title are three stacked input fields with teal borders, labeled 'Full Name', 'Email', and 'Password'. At the bottom of the form is a dark gray button with the word 'CREATE' in teal capital letters. The very bottom of the screen shows a dark gray navigation bar with a back arrow on the left and a home indicator in the center.</p>	<p>Screen responsible to register a new user.</p>
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## Dashboard

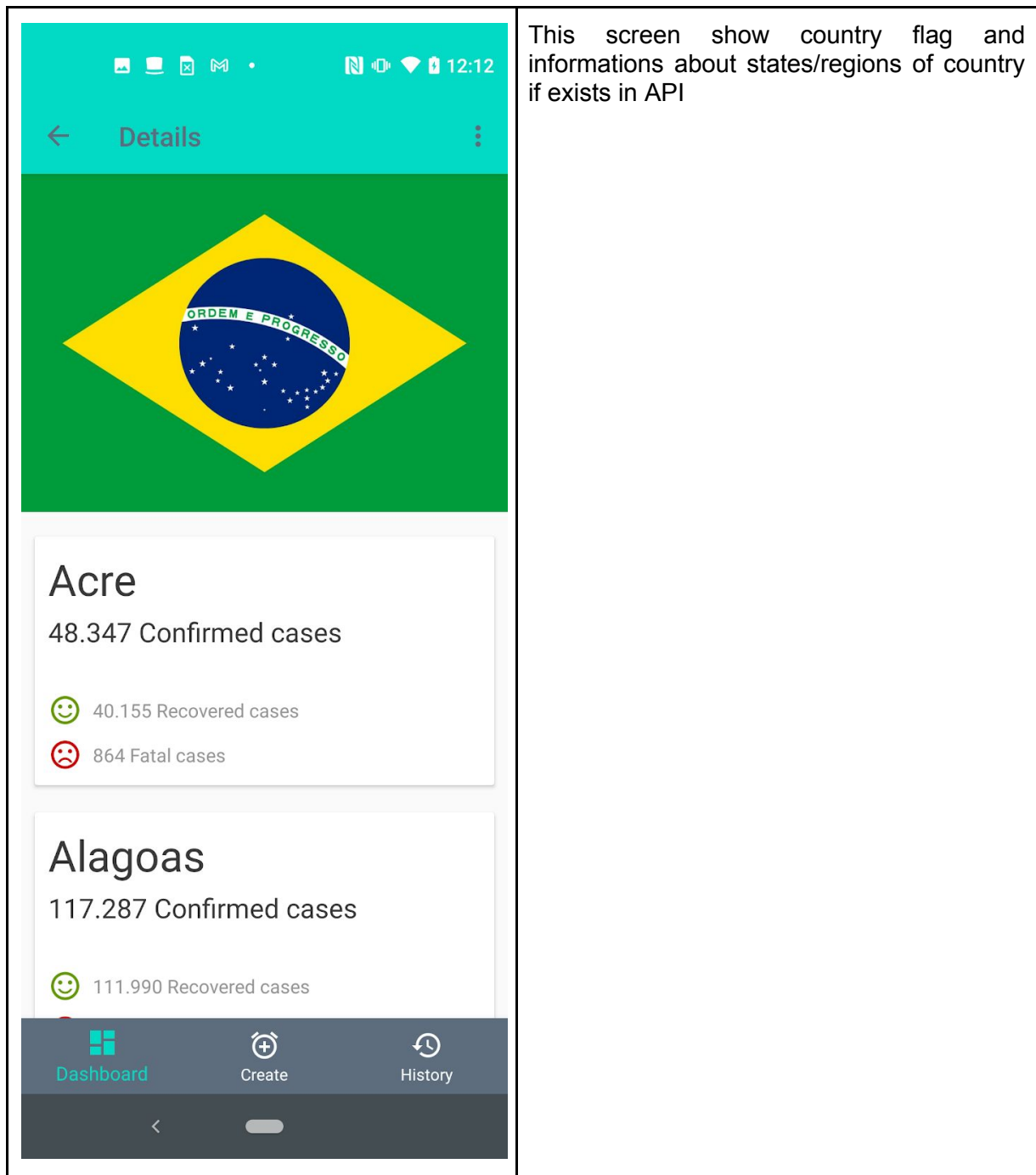


Dashboard is the first screen after user is logged. In it, user will could see covid-19 informations about all the world and your favorite country. The user has a option change country and see more.

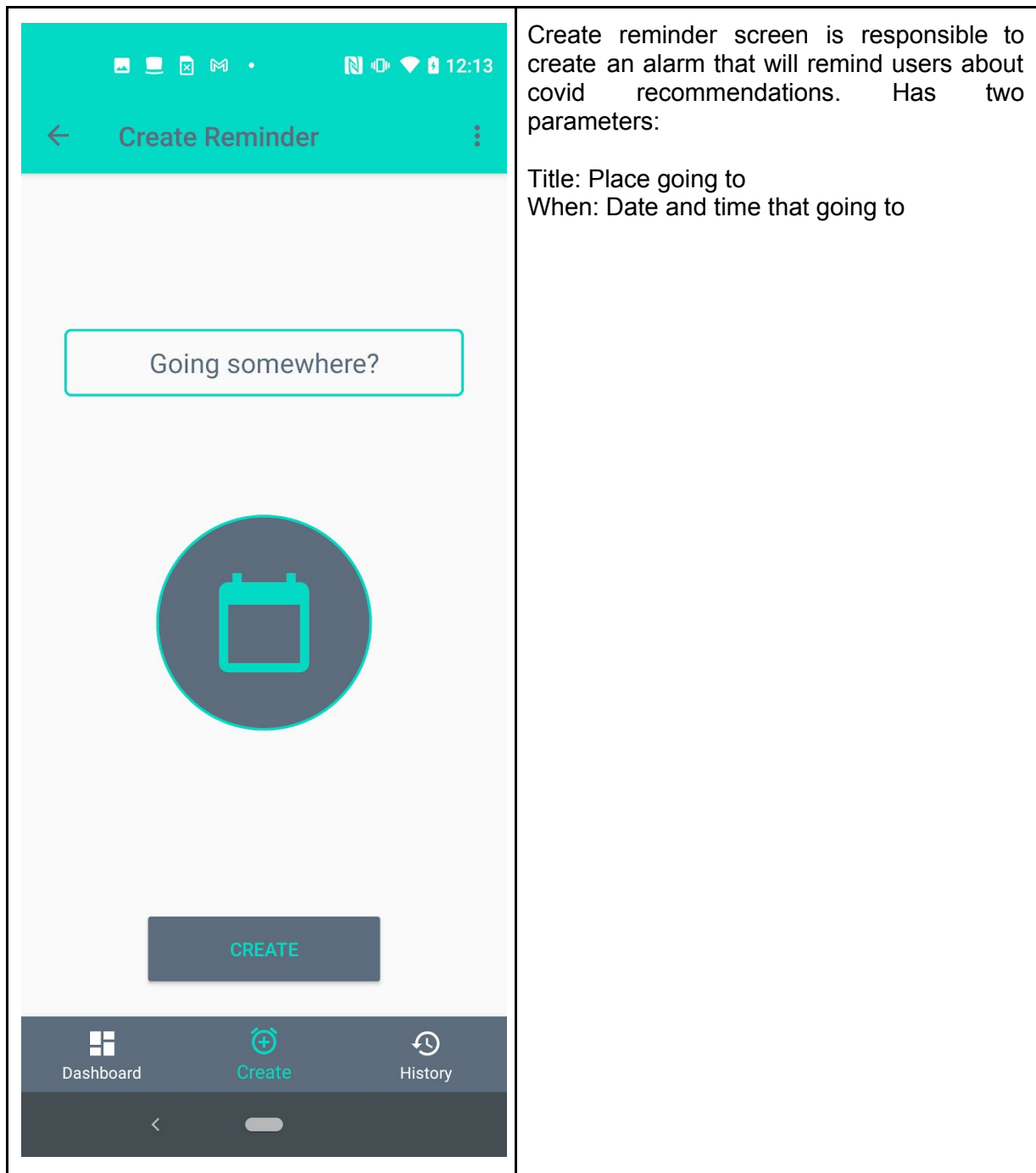
The top right icon refresh is used to refresh data base with new numbers

The three dots menu is a logout option

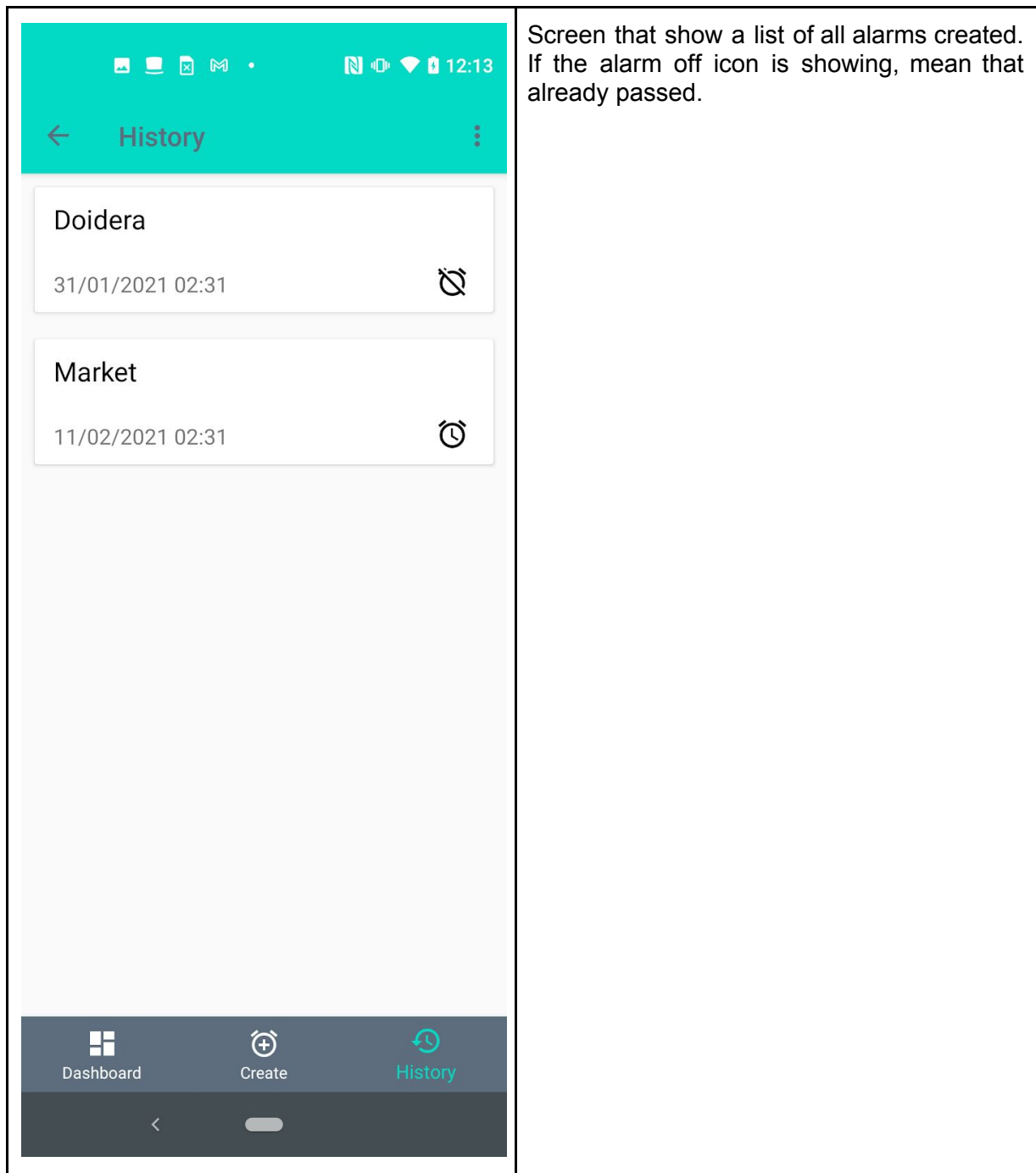
## Country detail



## Create Reminder

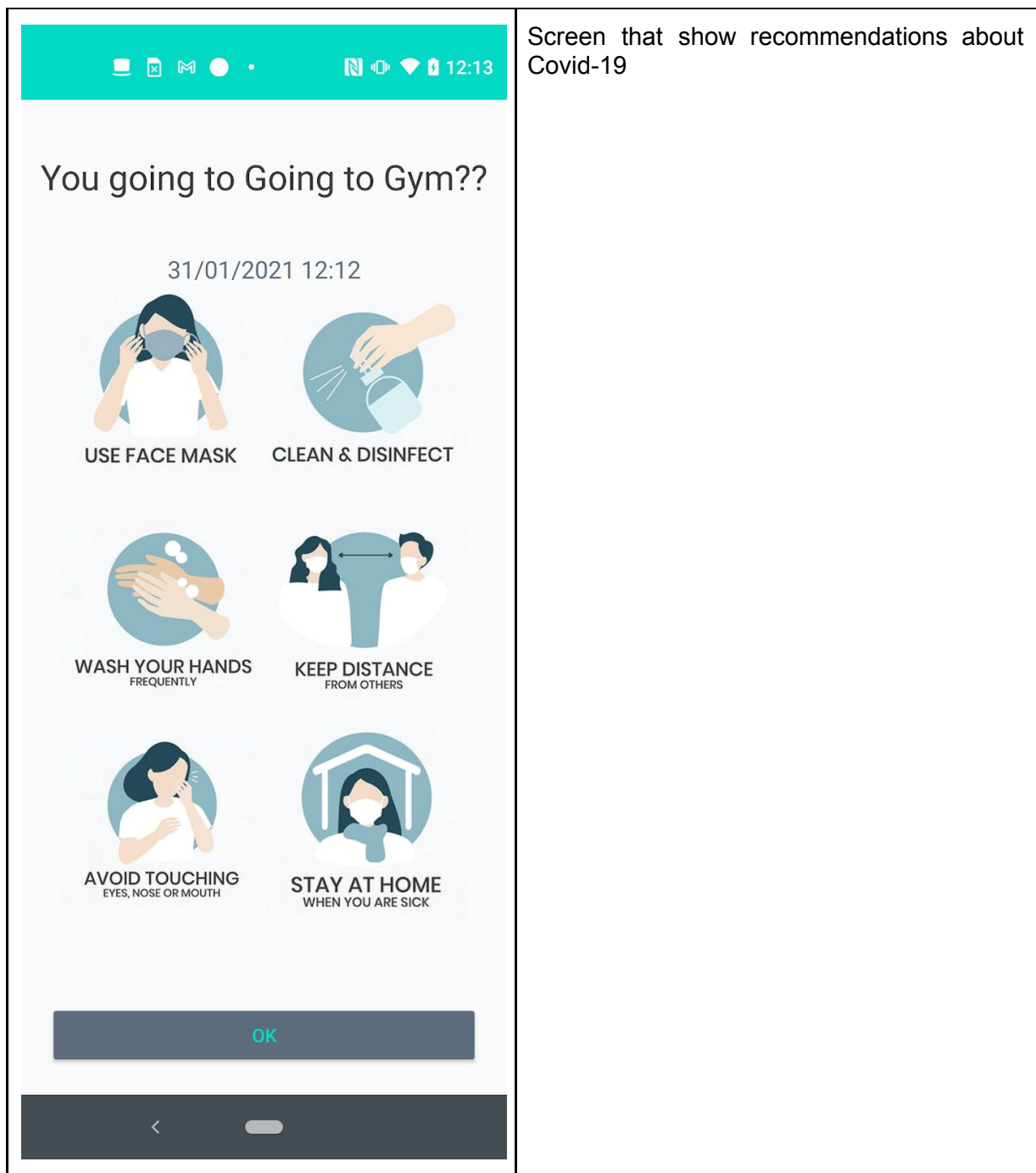


## History





## Reminder Detail



## Data persistence

The app will persist data using Room Database and Shared Preferences. Room will be used to save information about covid-19 (countries and states) provided by [this](#) API and reminders created. Shared Preferences will be used to store a user's favorite country. We will Room integrated with Kotlin Flow to communicate with ViewModel layer and LiveData to

communicate with the UI layer (Activities and Fragments). For images we will use Picasso to handle and store images

## Libraries

- Navigation Component: Handle navigation between activities and fragments
- Retrofit 2: Handle http/https calls
- Room: Persist data locally
- Picasso: Fetch country flags images and store locally
- Koin: Service Locator work as Dependency injection
- Coroutines: Handle asynchronous calls (network and local)

## Key considerations

- App will be write on Kotlin
- The app will hold all strings on strings.xml
- The app will RTL support
- All asynchronous calls will be used with Coroutines
- The hardware integration will be provided from Notifications and Alarms

## Project Configuration

### Step 1 - Build the project

In this step the project will be created, the base structure of the MVVM and import the libraries.

- Create the base structure MVVM based;
- Import the libraries;
- Configure Firebase on console and enable auth with email and gmail;

### Step 2 - Create layouts

In this task we will create all layouts and setup with ViewModels and setup with Koin

- Sign in Activity
- Sign up Activity
- Dashboard Fragment
- Country Detail Fragment
- Create Reminder Fragment
- History Fragment
- Reminder Detail Activity

## Step 3 - Implement data persistence

In this task we will create the Room and integrate with repository flow.

- Build the Repository Pattern;
- Create database and entities;
- Integrate with repository flow;

After this, we will create a class to hold Shared Preference logic

## Step 4 - API Response

In this task we get the date from API, parse the result and save in the local Room.

- Create a call to the API domain;
- Parse the result to save in Room;
- After data stored and user is logged, the user will be able to navigate offline

## Step 5 - Show cached data

In this task we load the data from the database and return from ViewModel layer handle

- Populate dashboard with corona infos
- Populate list of country states if exists
- Populate list of reminders