

Developer Documentation for Covid19 Tracker

The sole objective of this app is to fetch the statistics of COVID19 at both Global as well as India level and display them in a suitable format which will be discussed below.

Brief Analysis of App Workflow

- At the first launch of the app, the user is presented with an animation which lasts for a couple of seconds before proceeding to the dashboard of the app.
- On the first glance, the user can see the Global statistics as shown in the img 1a below.



1a



1b

- The Global/India Button implements a RadioButton at its core to shift between Global and India pages.
- The Pie Chart in the center of Global page and the Line chart in center of India page uses the MP Android Chart charting library.
- The complete statistics data is fetched from a Network API using Retrofit Networking library.

- Countries/States Data page (*img 1b*) which displays a list of Countries/States affected by COVID19 uses a RecyclerView to display this list.

App Design Guidelines

Font (to be used throughout the app) : *Montserrat [Regular + Medium]*

Splash Animation : <https://lottiefles.com/17699-covid-1>

Color Hexes used :

1. App background Path : #55B0FF
2. Main Headings/Radio Background : #005198
3. 2x2 Card Headings : #707070
4. Headings overlaying app background path : #FFFFFF
5. Card logo-value color :
 - Confirmed : #FFD83B
 - Active : #FF8989
 - Recovered : #54ADFF
 - Deceased : #7B7B7B

Read more about Standard Material Design Guidelines at :

<https://material.io/design/guidelines-overview>

Networking Overview

Retrofit library is used to fetch data from network API. Moshi Parser library is used to parse JSON objects into Java objects.

All statistics data can be retrieved from the following api hit point :

<https://api.covid19api.com/summary>

Library Dependencies

/ Add these dependencies into your app level build.gradle file */*

CardView :

implementation 'androidx.cardview:cardview:1.0.0'

RecyclerView :

implementation 'androidx.recyclerview:recyclerview:1.1.0'

Retrofit :

implementation "com.squareup.retrofit2:retrofit:2.9.0"

Moshi Parser :

implementation "com.squareup.retrofit2:converter-moshi:2.9.0"

implementation "com.squareup.moshi:moshi:1.9.2"

Gson Parser

implementation 'com.squareup.retrofit2:converter-gson:2.3.0'

Material Design

implementation 'com.google.android.material:material:1.2.1'

// Navigation Components

implementation 'androidx.navigation:navigation-fragment:2.3.0'

implementation 'androidx.navigation:navigation-ui:2.3.0'

MPAndroidChart :

implementation 'com.github.PhilJay:MPAndroidChart:v3.1.0'

Android Multidex :

implementation 'com.android.support:multidex:1.0.3'

```
compileOptions {  
    sourceCompatibility JavaVersion.VERSION_1_8  
    targetCompatibility JavaVersion.VERSION_1_8  
}
```

Download all the resources for this project [here](#).