**Weather Application**

Technical Skills Test

**Flow:**

* User open “Weather App”
* User will enter city name and press lookup button
* Retrofit hit API Call “[https://](https://api.jikan.moe/v3/search/anime?q=naruto)api.openweathermap.org/ ” with end point “data/2.5/forcast?q=cityname&appid”
* After getting data from api application store data in Room Database and populate on RecyclerView with the help of Live Data Binding , ViewModel and Kotlin Coroutines.
* If there is no internet connection or API failed data will load from room database
* When user click on any list item the detail fragment will open and show all the detail of weather

**Architecture:**

* MVVM
* Architecture Components

**Tools:**

* Android Studio 4.1.2
* Source Tree 3.4.2

**Language:**

* Kotlin

**Screens:**

* Enter City
* Weather List
* Weather Detail

**Libraries:**

* Retrofit (Network/Api Calling)
* Room Database( Cache Data)
* Kotlin Coroutines(Threading and Async Task)
* SDP (All Screen Size)
* Constraint Layout (Screen Designing)
* Live Data Binding
* LifeCycle View Model
* Navigation Component(Fragment Navigation)
* Junit4 (Unit Testing)
* Truth Library(Test Assertion)