**From- Revision- After Oceanmtech.**

<https://guides.codepath.com/android/consuming-apis-with-retrofit>

<https://www.journaldev.com/13639/retrofit-android-example-tutorial>

**Revision- After Nextsavy. (Topics Explanation)**

MVVM with Retrofit example :

<https://www.howtodoandroid.com/mvvm-retrofit-recyclerview-kotlin/?unapproved=2712&moderation-hash=ce16e7d96d0622b1d40853bffe40e05c&comment=2712#comment-2712>

Paging3 with MVVM & Retrofit :

https://howtodoandroid.com/pagination-with-paging-3-android/ **- As per this, done in Starto-Preneur**.

<https://www.youtube.com/playlist?list=PLRKyZvuMYSIPci119n2gt_kq1GU-PAYRk>

Coroutines

<https://www.youtube.com/watch?v=ShNhJ3wMpvQ&list=PLQkwcJG4YTCQcFEPuYGuv54nYai_lwil_> - Series By Phillip Lackner- For Practical examples.

Notes- Links.

Can refer for MVVM example with repository.

https://howtodoandroid.com/mvvm-retrofit-recyclerview-kotlin - (MVVM+retrofit)

https://medium.com/android-beginners/mvvm-with-kotlin-coroutines-and-retrofit-example-d3f5f3b09050 - (MVVM+coroutine+retrofit)

**Android MVVM+Retrofit+Coroutine Complete Example.**

<https://www.youtube.com/watch?v=D29vhvGv9Cc> – By Cheezy code

<https://youtu.be/jzeklL787w0> - By Papaya Coders

**Error handling in retrofit in mvvm**

**https://www.youtube.com/watch?v=IUEJwwD2z70**

**https://www.youtube.com/watch?v=9TDFQfK8voM**

**Room Database- From Revision after Nextsavy (Notes-Links)**

Short Explanation - https://developer.android.com/training/data-storage/room

https://howtodoandroid.com/room-database-android/

https://www.dhiwise.com/post/how-to-implement-room-database-in-kotlin

**Room with Coroutines, without MVVM- 3 videos, by Chezy Code:**

https://www.youtube.com/watch?v=yPL13Iwy6oM&list=PLRKyZvuMYSIO0jLgj8g6sADnD0IBaWaw2&index=10

https://www.youtube.com/watch?v=6Z\_lTWKy1lg&list=PLRKyZvuMYSIO0jLgj8g6sADnD0IBaWaw2&index=11

https://www.youtube.com/watch?v=mNb58u1Gidw&list=PLRKyZvuMYSIO0jLgj8g6sADnD0IBaWaw2&index=12

**Room + MVVM, Notes App by Android Knowledge:**

https://www.youtube.com/watch?v=zCDB-OqOzfY&t=463s

**How to see created room database in android studio :**

- First run the app in device.

- Then click on App Inspection tab at bottom menu (in line of Logcat).

- Select your device and select package.

- Click on table name and you can see the data.

**Room with Coroutines :**

<https://mrappbuilder.medium.com/implementing-room-databases-with-kotlin-coroutines-in-android-e1b5e11e1578>

Sample project is made using above link for Room with Coroutines.

Things to consider Room with Coroutines (in above project) in Android Studio Jellyfish.

* Add following things in app level build.gradle file :
* Add id (“kotlin-kapt”) in Plugins { } at top side.
* Add kapt("androidx.room:room-compiler:$room\_version") and

implementation("androidx.room:room-ktx:$room\_version")

in dependencies section.

* In Entity class,
* Define primary key as follows:
* @PrimaryKey(autoGenerate = true)  
  val collegeId: Long?
* And while inserting data, enter primary key as null, so it will auto increament the id.
* val college = CollegeEntity(null, collegeName, degreeName, city)