

Android App Development Program - Game Plan (Students)

The Android course is divided into **three** categories:

1. **Kotlin Language** - the students will learn to write programs and code solutions in Kotlin.
2. **Classic Android App Development** - the students will learn to develop Android Apps using XML and Kotlin with Jetpack libraries following MVVM pattern.
3. **Jetpack Compose** - the students will learn to develop Apps using Jetpack Compose and all the modern Jetpack Libraries.

Online Courses to support our program:

1. Kotlin Language (by JetBrains) - <https://www.coursera.org/learn/kotlin-for-java-developers>
2. Classic Android App Development (by Google) - <https://www.udacity.com/course/developing-android-apps-with-kotlin-ud9012>
3. Jetpack Compose (by Google) - <https://developer.android.com/courses/jetpack-compose/course>

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Step 1	Kotlin - M2 & M3	HR & LC
Step 2	Android - L1 & L2 + Kotlin M4i	Assignment 1, HR & LC
Step 3	Android - L3 & L4 & L5	Assignment 2 & 3
Step 4	Kotlin M4ii	Assignment 4 & 5
Step 5	Android - L6 + Kotlin M4iii	Assignment 6 & 7
Step 6	Android - 7 & 8 + Kotlin M5i	Assignment 8, 9 & 10
Step 7	Android - 9 & 10 + Kotlin M5ii	Assignment 11 & 12
Step 8	<Buffer>	
Step 9	Jetpack Compose + Kotlin M5iii	Assignment 13, 14
Step 10	Jetpack Compose	Assignment 15, 16, 17
Step 11	Jetpack Compose	Assignment 18
Step 12	<Buffer>	
Step 13		Assignment 19
Step 14		Assignment 20

M1, M2 means Module 1, Module 2... (Week 1, Week 2... in old accounts) in Kotlin Course

L1, L2 means Lesson 1, Lesson 2 (Chapter 1, Chapter 2) in the Android Course

HR - HackerRank & **LC** - LeetCode

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Assignments:

1. Create the design using constraintlayout :-



2. One data - MVVM - DataBinding - LiveData

3. App Lifecycle - Activity & Fragment (use Log) - with NavLib - data pass

4 & 5. TWO Simple Apps with - Data Binding - MVVM - Navigation Library, Livedata

6. Simple Room App - enter 5 data in one screen - display and delete in another without RV

7. RV - with a predefined list - just two data

8. Retrofit - make an api call - display the data in TextView

9. Retrofit + RV - parsing - beautiful data - countries api

10. Retrofit + RV + Room - storing + retrieving beautiful data

11. Android Developers Interview Task

(<https://workdrive.zohoexternal.com/external/writer/268aa6e9a4d025abb2d1c712e08ac3aeceb638d766dd7d40a8d817b048bc2f72>)

12. Explore CameraX

13. Explore Broadcast Receivers

14. Communicate between Apps

15. Explore Services - create a service for timer

16. Explore WorkManager

17. Explore Content Providers

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18. API + LC + DB + retrieving beautiful data + paging

19. Explore Firebase

20. App on own idea with JC, preferably with firebase and more components.

Assignment - Process:

Finish the assignments and submit them on github as a private repository.

Midway:

You can start writing full fledged Android Apps once you've completed till Week 7 & Assignment 12.