Android Assignment-2

Mobile Application Guidelines

● Guidelines
● Your weekend assignment is your chance to demonstrate to us what you've learnt during your week in training and what quality of work we can expect from you going forward. ● You'll be producing an application and presenting it to us on Monday morning. ● This application should be built on the following requirements specified, we want to see you build a product that you're interested in and enthusiastic about and build it to the best of your abilities. ● You don't have to hand in a completely finished product, you can hand in a completed section of an on-going project, as long as what you hand in is an appropriate achievement and works properly.

● Assignment Checklist			
No	Task	Required	Required
1	Activity	Yes	One Main Activity to load fragments.
2	Screen Orientation (Data Persistence)	Yes	The application must persist the data when the portrait or landscape mode
3	Synchronized Local Database	Yes	Synchronize atleast one API to load from Realm user and synchronize server data locally
4	Fragments	Yes	10	Tabs fragment (Bottom Navigation)
5	Retrofit 2, RxJava	Yes	Background Http processing for all 2 APIS
6	Material Design	Yes	Recyclerview and Cardview
7	SwipeToRefresh	Yes	Refresh data for all 3 API
8	Network Check	Yes	Check network before loading data

9	Packaging (Code organization)	Yes		Files to be placed to functionality
10	Error handling	Yes		App should not crash or give ANR
11	Commenting	Yes		Javadoc must be created
12	Use Case 1	Yes	20	As a user I must be able to view the list of all Artist in all three tabs.
13	Use Case 2	Yes	20	When I click on one of the items of the recyclerview in Classic tab, I must play the artist music.
14	Use case 3	Yes	20	When in offline mode I should be able to still see the data for at least Classic tab
15	Use case 4	Yes	10	Implement SwipetoRefresh
14	MVP Architectural pattern	Yes	20	For at least 2 fragments
15	X-Factor	Optional		Load detail fragments on click of the item.

Reference:

https://github.com/MindorksOpenSource/android-mvp-architecture

● Assessment	

- How well you've grasped the technologies covered in training. This will be judged on how well you've moulded the knowledge to fit the situation. i.e. I want to see an implementation that fits with your application, not just the code I've given you hammered in where it fit.
- A good understanding of touch-first thinking in the UI design of your application. I'd like to see an application that is well designed for a mobile platform, with appropriate controls and user interactions.
- Good and appropriate use of the tools available both within the default environment and online.
- Use of technologies and functionalities outside of the training syllabus.
- Good use of the time given. Depending on the scale of the application you're designing, I don't always expect to see a completely finished product.

Guidelines

Develop an application to view Rock, Classic and Pop Artists in three different tabs.

Materials Provided:

1 Material Tabs (Base code project)

2 Tested API's

API to parse

Tab 1:
https://itunes.apple.com/search?term=rock&media=music&entity=song&limit=50

Tab 2:
https://itunes.apple.com/search?term=classick&media=music&entity=song&limit=50

Tab 3:
https://itunes.apple.com/search?term=pop&media=music&entity=song&limit=50

Use Case 1:As a user I must be able to view the list of all Artist in all three tabs.

Classic Tab should load:

https://itunes.apple.com/search?term=classick&media=music&entity=song&limit=50

Pop Tab should load:

https://itunes.apple.com/search?term=pop&media=music&entity=song&limit=50

Rock Tab should load:

https://itunes.apple.com/search?term=rock&media=music&entity=song&limit=50

Data to Load: (Json Object to display)

"artistName":

"collectionName":

"artworkUrl60":

"trackPrice":

Screen Shot:

Assignment-2

🏠
Rock

▣
Classic

🔔
Pop

The Sound of Madness (Deluxe Version)

Shinedown

1.29 USD

The Better Life

3 Doors Down

1.29 USD

Nightmare (Deluxe Version)

Avenged Sevenfold

1.29 USD

Greatest Hits

Journey

1.29 USD

Save Rock and Roll

Fall Out Boy

1.29 USD

Assignment-2

🏠
Rock

▦
Classic

🔔
Pop

MKTO

MKTO

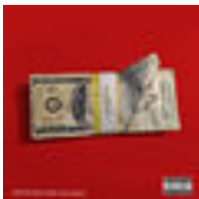1.29 USD

55

The Knocks

1.29 USD

MKTO

MKTO

1.29 USD

Dreams Worth More Than Money

Meek Mill

1.29 USD

NOW That's What I Call Music, Vol. 47 Found 50 Results.

MKTO

-1.0 USD

Assignment-2

Celebrity

*NSYNC

1.29 USD

Hey, Soul Sister - Single

Train

1.29 USD

The E.N.D. (The Energy Never Dies)

The Black Eyed Peas

1.29 USD

Global Warming: Meltdown (Deluxe Version)

Pitbull

1.29 USD

Party In the U.S.A. - Single

Miley Cyrus

1.29 USD

Use Case 2: As a user

When I click on one of the items of the recyclerview in Classic tab, I must play the artist music.

Data to Load:

  "previewUrl"

(Use implicit intents)

~~Use Case 3: As a user~~

~~When in offline mode I should be able to still see the data for at least Classic tab (Load from Realm)~~

Use Case 4: As a user

I must be able to refresh the list