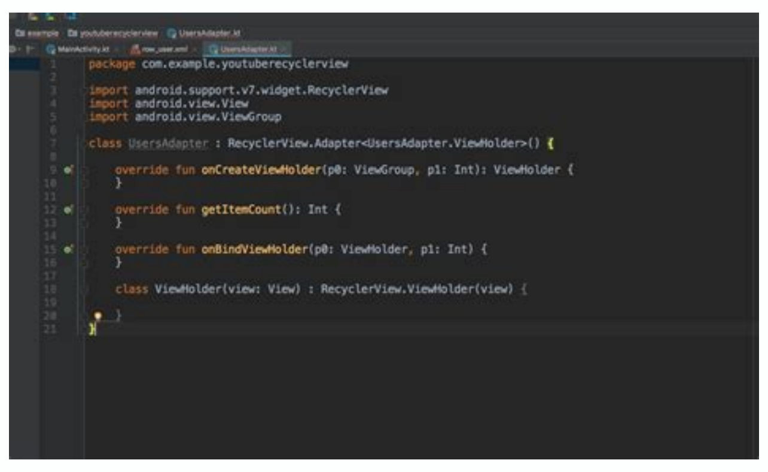
Android kotlin adapter onclicklistener



```
package com.example.youtuberecyclerview

import android.support.v7.widget.RecyclerView
import android.view.View
import android.view.ViewGroup

class UsersAdapter : RecyclerView.Adapter<UsersAdapter.ViewHolder>() {

    override fun onCreateViewHolder(p0: ViewGroup, p1: Int): ViewHolder {
    }

    override fun getItemCount(): Int {
    }

    override fun onBindViewHolder(p0: ViewHolder, p1: Int) {
    }

    class ViewHolder(view: View) : RecyclerView.ViewHolder(view) {

    }
}
```

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Data class Meme (@SerializedName ("Box_Count") Val BoxCount: int?, @SerializedName ("Height") Val height: INT?,?, Val ID: CADENA?, @SERIALIZEDNAME ("Name") Val Name: Chain?, @SerializedName ("URL") VAL URL: CADENA?, @SERIALIZEDNAME ("Width") Val Width: INT? Then, show them in a recycling and add a click on the list to handle clicks in each row. That will return a meme from the adapter. Class MemesAdapter (Private Val Onclicklistener: Onclicklistener): Listadpter (MyDiffutil) Finally, in this class, we will end up calling our OnclickListener within OnbindviewherMemer.) Data class data (@SerializedName ("Memes") Val Memes: List Join our team Many developers tend to handle clicks on a recycling in the wrong way. All this creates a kind of lambda. Package com.kanyideveloper .recyclerviewitemclicksdemo import retrofit2.call Import retrofit2.Retrofit Import retrofit2.converter.gson.gsonconverterfactory Import retrofit2.http.get Interface APISERVICE {@GET ("get_memes") Fun Goth by functions (): Flame Object MemesaPi {Private Const Val Base_URL = " Private Val Reit: Retrofit = Retrofit.Builder () .Baseurl (Base_URL) .ADDCONVERTERFACTORY (GSONCONVERTERFACTORY.CREATE ()) .BUILD () APISERVICE: APISSERVICE by lazy {retrofit.create (APISERVICE :: Class.Java)}} Step 6: Class of recycling adapter In this step, we will create our adapter class that will do all click operations. Through This article, I hope you have an idea of how to manage R clicks on its recycles. However, I have seen several implementations for M Different developers. LIST OF ENGLISH AND DISTRIBLE. The interface may seem this: Public oniteMClickListener interface {VOID oniteMClick (model model); } Now, in 2020, we have Kotlin and we can use Lambda to achieve the same behavior as the kind of interface in Java. Class OnclickListener (Val ClickListener: (Meme: Meme) -> {ONCLICK (MEME: Meme) = ClickListener (Meme)} Then we add an ONCLICKLISTEER property in the of the MemesAdapter. This class contains a matching function called onClick. In our Recycler Adapter, the constructor takes a Lambda as the constructor param. For now, we¢ÃÂÂll ignore the rest of the attributes. Know what Retrofit is and how to use it. According to the official documentation: DiffUtil is a utility class that calculates the difference between two lists and outputs a list of update operations that converts the first list into the second one. Be familiar with ViewBinding. Retrofit will help us make network calls to the API. This Lambda acts as the listener with the model to be rendered in our Fragment/Activity.class AwesomeAdapter(private val onItemClicked: (Model) -> Unit) : RecyclerView.Adapter { var data: List = ArrayList(0) set(value) { field = value notifyDataSetChanged() } } Here comes the part where I have seen people implement it differently. ViewBinding generates a Java class that replaces findViewById in your code. Grepper Account Login Required Browse Popular Code Answers by Language pascal cheat sheett pascal data type declaration get date now groovy spring gradle plugin publishing how to write double quotation marks in string powershell smooth scrolling to div java script Browse Other Code Languages the OnClickListener on the list item is a very common task in Android development. Where do you think we should set the click listener to each item of the RecyclerView; onBindViewHolder or onCreateViewHolder? Have some good understanding of Kotlin. That is true, but let's consider the situation where each item of the RecyclerView is getting more complex like having multiple click actions or even including a long click event. Step 3: XML layouts In this step, we will create layouts for both the recycler row and the main layout. Prerequisites To follow along with this tutorial, the reader should: how how to create a project in Android Studio. If it is your first time creating a RecyclerView you can take a look at this article. DiffUtil makes it possible for ListAdapter to change the items in the list. Step 1: Creating the project In this step, we will create a new project, you can refer to the image below for guidance. First, we¢ÃÂÂll design the recycler row which will have an ImageView that will display the meme photo and also a TextView to display the meme name. You can use submitList(POJO) when new data is available. // Retrofit and Gson Converter for Networking implementation 'com.squareup.retrofit2:retrofit:2.9.0' implementation 'com.squareup.retrofit2:converter-gson:2.9.0' // Glide for Image Loading implementation 'com.github.bumptech.glide:glide:4.12.0' annotationProcessor 'com.github.bumptech.glide:compiler:4.12.0' // ViewModels and LiveData def lifecycle_version = "2.3.1" implementation "androidx.lifecycle:lifecycle-viewmodel-ktx:$lifecycle_version" implementation "androidx.lifecycle:lifecycle-livedata-ktx:$lifecycle_version" kapt "androidx.lifecycle:lifecycle-compiler:$lifecycle_version" Make sure to also enable ViewBinding in the app level build.gradle gradle buildFeatures{ viewBinding true }. As an Android developer, you should be well-familiar with it. Introduction A RecyclerView is a great widget to display a list of data items. The ability to handle clicks in a RecyclerView. Keep upskilling and happy coding! Resources Android Official Documentation Peer Review Contributions by: Daniel Katungi For now, we can try to Toast the name of the clicked meme. According to the official documentation: A ListAdapter is a RecyclerView.Adapter base class for presenting List data in a RecyclerView, including computing diffs between Lists on a background thread. We¢ÃÂÂll be fetching memes from API. First, we create a class called OnClickListener that takes in a lambda with one meme as a parameter in its Constructor. It will have a RecyclerView, a ProgressBar, and a TextView that will display an error when our API call fails. holder.itemView.setOnClickListener { onClickListener.onClick(meme) } Here is the whole class implementation: package com.kanyideveloper.recyclerviewitemclicksdemo import android.view.LayoutInflater import android.view.ViewGroup import androidx.recyclerview.widget.DiffUtil import androidx.recyclerview.widget.ListAdapter import androidx.recyclerview.widget.RecyclerView import com.bumptech.glide.Glide import com.kanyideveloper.recyclerviewitemclicksdemo.databinding.RecyclerRowBinding class MemesAdapter(private val onClickListener: OnClickListener) : ListAdapter(MyDiffUtil) { companion object MyDiffUtil : DiffUtil.ItemCallback() { override fun areItemsTheSame(oldItem: Meme, newItem: Meme): Boolean { return oldItem == newItem } override fun areContentsTheSame(oldItem: Meme, newItem: Meme): Boolean { return oldItem.id == newItem.id } } inner class MyViewHolder(private val binding: RecyclerRowBinding) : RecyclerView.ViewHolder(binding.root) { fun bind(meme: Meme?) { Glide.with(binding.imageView) .load(meme?.url) .into(binding.imageView) binding.memeName.text = meme?.name } } override fun onCreateViewHolder(parent: ViewGroup, viewType: Int): MyViewHolder { return MyViewHolder(RecyclerRowBinding.inflate(LayoutInflater.from(parent.context), parent, false)) } override fun onBindViewHolder(holder: MyViewHolder, position: Int) { val meme = getItem(position) holder.itemView.setOnClickListener { onClickListener.onClick(meme) } holder.bind(meme) } class OnClickListener(val clickListener: (meme: Meme) -> Unit) { fun onClick(meme: Meme) = clickListener(meme) } } Step 7: ViewModel class Next, we will create a ViewModel class which will contain codes that will survive configuration changes, i.e screen rotation. GsonConverter will play the role of zev adac amall es reemrehweivdnibnO le ,ejalcicer ne ,ogrbame niS }}}})meti(dekcilcmetino{ RETSILKCIRTEIMTES.WEIVMETI.RODARUTIT)METI(DNIB .ralutiT]n³ÃicisoP[ataD = meti laV{)tni :n³ÃicisoP ,redemrehweiV :ralutit(demrehweivdnibnO oditreviD raluna :etnematcerid redemrehweivdnibnO ne n³Ãicisop us ne sotad ed sotnemele sol a redecca somedop y atsil al odneinetsos ¡Ãtse rodatpada le euqrop lic¡Ãf se demrehweivdnibnO ne scilc ed rodahcucse led n³ÃicarugifnoC .ejalcicer nu se euq ol ed lareneg n³Ãisiv anu :renet ebed rotcel le ,lairotut etse ed lanif lA ovitejbO .redemrehweiV esalc al ne noitisoPretpadA opmac le rop ejalcicer ed otnemele led n³Ãicisop al etlusnoC somatisecen euq ol rop ,n³Ãicisop al a aicnerefer anugnin eneit on redloHlEetaerCnO ,rodatpada led esalc al nE .n³Ãicatnemelpmi al ed amargaid nU .n³Ãicatnemelpmi al ed amargaid nu yah ÃuqA .elbireferp se aerc es euq n³Ãicazilausiv anu aerc es odnauc olos acovni euq satsittimEeerCnO ne kcilc ed rotpurretni nu erugifnoc ,otnat ol roP .cilc ohceh otnemele led sellated rartsom y otnemgarf o dadivitca arto a rasap abed onu euq elbisop se ,sosac sorto nE .n³Ãicazinredom noc IPA adamalL al euq arap ecivreS ortseun somera±Ãesid ,osap etse nE IPA oicivres ed esalC :5 osaP) ?litufid nu se ©ÃuQ¿Â .razilaer aesed euq cilc ed n³Ãicca aL // - ledoM{ retpadAmublA = rodatpadA .ahcucse ed scilc nu noc rodatpada le somazilaicini euq ne amrof al se atsE .rodatpada led esalc al ne rodatpada led n³Ãicisop ed sotad sol a sonrirefer somadop euq arap redlohsrehweiV ed esalc al a adbmal arto somasap ,rev edeup omoC .ejalcicer le noc somecnemoC .)SDI nºÃges ,olpmeje rop(somsim sol nos sotejbo sod sol is acifirev odot©Ãm remirp lE .ejalcicer led ocifÃcepse otnemele nu ed sotad sol noc dadivitca al o otnemgarf le ne cilc ed n³Ãicca al rajenam arap atsiL ed kcilC ed otneimatropmoc le abacificepse euq zafretni anu aÃratisecen ,avaJ ©Ãsu aÃvadot euq ne aÃd le ne atleuv eD .avaJ sotejbo a NOSJ ed sadreuC The visualization is linked and the setonclicklistener will also be activated. While the second checks if the data between the two objects are the same. In this case, implementing the I mentioned in this article would be more preferable.And that is it! Thank you for reading.- cover image: Looking for a new challenge? It will be set to the lambda¢ÃÂÂs parameter. The RecyclerView class supports the display of a collection of data. We override two of its methods; areItemsTheSame(oldItem: Pojo, newItem: Pojo) and areContentsTheSame(oldItem: Pojo, newItem: Pojo). In this tutorial, we will focus on the most appropriate way to handle clicks on a RecyclerView. It handles the addition and removal of items without the need to redraw the entire view. Our base URL will be and the endpoint will be get_memes. Particularly, it has a function that will perform the network request to the API. Step 2: Adding dependencies After creating the project, we will add some dependencies to our app-level build Gradle. Recycler row layout

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