

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/
  android"
3     xmlns:app="http://schemas.android.com/apk/res-auto"
4     xmlns:tools="http://schemas.android.com/tools"
5     android:layout_width="match_parent"
6     android:layout_height="wrap_content"
7     tools:context=".CharityListActivity">
8
9     <androidx.recyclerview.widget.RecyclerView
10         android:id="@+id/recyclerView_charityList_list"
11         android:layout_width="410dp"
12         android:layout_height="198dp"
13         android:layout_marginStart="1dp"
14         android:layout_marginTop="1dp"
15         app:layout_constraintStart_toStartOf="parent"
16         app:layout_constraintTop_toTopOf="parent" />
17 </androidx.constraintlayout.widget.ConstraintLayout>
```

```

1 package com.example.charitysearchapi
2
3 import android.content.Intent
4 import android.view.LayoutInflater
5 import android.view.View
6 import android.view.ViewGroup
7 import android.widget.TextView
8 import androidx.constraintlayout.widget.ConstraintLayout
9 import androidx.recyclerview.widget.RecyclerView
10
11 class CharityAdapter(var dataSet: List<CharityData>) :
12     RecyclerView.Adapter<CharityAdapter.ViewHolder>() {
13
14     /**
15      * Provide a reference to the type of views that you are using
16      * (custom ViewHolder)
17      */
18     class ViewHolder(view: View) : RecyclerView.ViewHolder(view) {
19         val nameTextView: TextView
20         val categoryTextView: TextView
21         val cityTextView: TextView
22         val stateTextView: TextView
23         val websiteTextView: TextView
24         val layout: ConstraintLayout
25
26
27         init {
28             nameTextView = view.findViewById(R.id.textView_charityitem_name)
29             categoryTextView = view.findViewById(R.id.textView_charityitem_category)
30             cityTextView = view.findViewById(R.id.textView_charityitem_city)
31             stateTextView = view.findViewById(R.id.textView_charityitem_state)
32             websiteTextView = view.findViewById(R.id.website_charityitem_website)
33             layout = view.findViewById(R.id.layout_charityitem)
34         }
35     }
36
37     override fun onCreateViewHolder(viewGroup: ViewGroup, viewType: Int): ViewHolder {
38         // Create a new view, which defines the UI of the list item
39         val view = LayoutInflater.from(viewGroup.context)
40             .inflate(R.layout.item_charity_data, viewGroup, false)
41
42         return ViewHolder(view)
43     }
44
45     override fun onBindViewHolder(holder: CharityAdapter.ViewHolder, position: Int) {
46         //val context = holder.itemView.context
47         val charityData = dataSet[holder.layoutPosition]
48         holder.nameTextView.text = charityData.data.charityName
49         holder.categoryTextView.text = charityData.data.category
50         holder.cityTextView.text = charityData.data.city
51         holder.stateTextView.text = charityData.data.state
52         holder.websiteTextView.text = charityData.data.website
53         holder.layout.setOnClickListener {
54             val detailIntent = Intent(it.context, CharityDetailActivity::class.java)
55             detailIntent.putExtra(CharityDetailActivity.EXTRA_CHARITY, charityData)
56             it.context.startActivity(detailIntent)
57         }
58     }
59
60     override fun getItemCount(): Int {
61         return dataSet.size
62     }
63 }
64 }

```

```
1 package com.example.charitysearchapi
2 import android.os.Parcelable
3 import android.text.BoringLayout
4 import kotlinx.parcelize.Parcelize
5
6 @Parcelize
7 data class CharityData (
8     val code: Int,
9     val msg: String,
10    val data: Data
11
12 ) : Parcelable {
13     val zipCode: Byte
14     get() {
15         TODO()
16     }
17     val charityName: Byte
18     get() {
19         TODO()
20     }
21 }
22
23 @Parcelize
24 data class Data(
25     val category: String?,
26     val charityName: String,
27     val url: String,
28     val zipCode: String,
29     val city: String?,
30     val state: String?,
31     val website: String,
32     val missionStatement: String
33 ) : Parcelable, Comparable<Data> {
34     override fun compareTo(other: Data): Int {
35         return 0
36     }
37 }
38
```

```
1 package com.example.charitysearchapi
2
3 import retrofit2.Call
4 import retrofit2.http.GET
5 import retrofit2.http.Path
6 import retrofit2.http.Query
7 import java.util.*
8
9 interface CharityDataService {
10     @GET("charitysearch")
11     fun getCharityData(
12         @Query("user_key") apiKey: String,
13         @Query("state") state: String
14     ) : Call<List<CharityData>>
15 }
```

```
1 package com.example.charitysearchapi
2
3 import androidx.appcompat.app.AppCompatActivity
4 import android.os.Bundle
5 import com.example.charitysearchapi.databinding.ActivityCharityDetailBinding
6
7 class CharityDetailActivity : AppCompatActivity() {
8     companion object {
9         val EXTRA_CHARITY = "charity"
10    }
11
12    private lateinit var binding: ActivityCharityDetailBinding
13
14    override fun onCreate(savedInstanceState: Bundle?) {
15        super.onCreate(savedInstanceState)
16        binding = ActivityCharityDetailBinding.inflate(layoutInflater)
17        setContentView(binding.root)
18
19
20        val charity = intent?.getParcelableExtra<CharityData>(EXTRA_CHARITY)
21        binding.textViewDetailName.text = charity?.data?.charityName
22        binding.textViewDetailCategory.text = charity?.data?.category
23        binding.textViewDetailCity.text = charity?.data?.city
24        binding.textViewDetailState.text = charity?.data?.state
25        binding.textViewDetailWebsite.text = charity?.data?.website
26    }
27 }
```

```

1 package com.example.charitysearchapi
2
3 import android.os.Bundle
4 import android.util.Log
5 import androidx.appcompat.app.AppCompatActivity
6 import androidx.recyclerview.widget.LinearLayoutManager
7 import com.example.charitysearchapi.Constants.API_KEY
8 import com.example.charitysearchapi.databinding.ActivityCharityListBinding
9 import retrofit2.Call
10 import retrofit2.Callback
11 import retrofit2.Response
12
13 class CharityListActivity: AppCompatActivity() {
14     companion object{
15         const val TAG = "CharityListActivity"
16         const val STATE = "CA"
17     }
18
19     private lateinit var binding: ActivityCharityListBinding
20     lateinit var adapter: CharityAdapter
21
22     override fun onCreate(savedInstanceState: Bundle?) {
23         super.onCreate(savedInstanceState)
24         binding = ActivityCharityListBinding.inflate(layoutInflater)
25         setContentView(binding.root)
26
27         getCharitySearchApiCall(Constants.API_KEY, STATE)
28
29     }
30     private fun getCharitySearchApiCall(api: String, state: String) {
31         //var charities = listOf<CharityData>()
32         //create an instance of Retrofit that has our base url
33         //and the service interface that has out get resources
34         val charityDataService = RetrofitHelper.getInstance().create(CharityDataService::class.java)
35         //create our call object
36         val countyDataCall = charityDataService.getCharityData(Constants.API_KEY, state)
37         //execute our call object
38         //new Callback<List<CountyData>> { //method implementations }
39         countyDataCall.enqueue(object: Callback<List<CharityData>> {
40             override fun onResponse(
41                 call: Call<List<CharityData>>,
42                 response: Response<List<CharityData>>
43             ) {
44                 Log.d(TAG, "onResponse: ${response.body()}")
45                 if(response.body() != null){
46                     adapter = CharityAdapter(response.body()!!)
47                     adapter.dataSet =
48                         adapter.dataSet.sortedWith(compareByDescending<CharityData> {it.zipCode}
49                             .thenByDescending { it.charityName})
50                 }
51                 else{
52                     Log.d(TAG, "body is null :(")
53                     adapter = CharityAdapter(listOf())
54                 }
55                 //adapter = CountyAdapter(counties)
56                 binding.recyclerViewCharityListList.adapter = adapter
57                 binding.recyclerViewCharityListList.layoutManager = LinearLayoutManager(this@
CharityListActivity)
58             }
59
60             //what we do if the call doesn't work
61             override fun onFailure(call: Call<List<CharityData>>, t: Throwable) {
62                 Log.d(TAG, "onFailure: ${t.message}")
63             }
64         })
65         //all of the code here ... we might not have data yet
66         //can't put what to do with the data below the call
67     }
68     //the sorter, make new menu item idk how to tho
69     // override fun onCreateOptionsMenu(menu: Menu): Boolean {
70     //     val inflater: MenuInflater = menuInflater

```

```
71 //         inflater.inflate(R.menu.charitylist_menu, menu)
72 //         return true
73 //     }
74 //     override fun onOptionsItemSelected(item: MenuItem): Boolean {
75 //         // Handle item selection
76 //         return when (item.itemId) {
77 //             R.id.item_countylist_menu_sortByName -> {
78 //                 // sort by name
79 //                 adapter.dataSet = adapter.dataSet.sortedBy {
80 //                     it.county
81 //                 }
82 //                 //adapter.dataSet.sortedWith(compareBy { it.name }, {it.ranking})
83 //                 adapter.notifyDataSetChanged()
84 //                 true
85 //             }
86 //             R.id.item_countylist_menu_sortByTransmissionLevel -> {
87 //                 // sort by rank
88 //                 adapter.dataSet = adapter.dataSet.sorted()
89 //                 adapter.notifyDataSetChanged()
90 //                 adapter.dataSet = adapter.dataSet.reversed()
91 //                 adapter.notifyDataSetChanged()
92 //                 true
93 //             }
94 //         }
95 //         else -> super.onOptionsItemSelected(item)
96 //     }
97 // }
98 }
```

```
1 package com.example.charitysearchapi
2
3 object Constants {
4     const val API_KEY = "c54fe445d52c849768d73dcb6c9b05a3"
5 }
```



```
1 package com.example.charitysearchapi
2
3 import retrofit2.Retrofit
4 import retrofit2.converter.gson.GsonConverterFactory
5
6
7 object RetrofitHelper {
8     val baseUrl = "http://data.orghunter.com/v1/"
9     fun getInstance(): Retrofit {
10         return Retrofit.Builder()
11             .baseUrl(baseUrl)
12             .addConverterFactory(GsonConverterFactory.create())
13             .build()
14     }
15 }
```

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/
  android"
3     xmlns:app="http://schemas.android.com/apk/res-auto"
4     xmlns:tools="http://schemas.android.com/tools"
5     android:layout_width="match_parent"
6     android:layout_height="match_parent"
7     tools:context=".CharityDetailActivity">
8
9     <TextView
10         android:id="@+id/textView_detail_name"
11         android:layout_width="wrap_content"
12         android:layout_height="wrap_content"
13         android:text="name"
14         tools:layout_editor_absoluteX="159dp"
15         tools:layout_editor_absoluteY="130dp" />
16
17     <TextView
18         android:id="@+id/textView_detail_category"
19         android:layout_width="wrap_content"
20         android:layout_height="wrap_content"
21         android:text="Category"
22         tools:layout_editor_absoluteX="174dp"
23         tools:layout_editor_absoluteY="241dp" />
24
25     <TextView
26         android:id="@+id/textView_detail_city"
27         android:layout_width="wrap_content"
28         android:layout_height="wrap_content"
29         android:text="city"
30         tools:layout_editor_absoluteX="150dp"
31         tools:layout_editor_absoluteY="323dp" />
32
33     <TextView
34         android:id="@+id/textView_detail_state"
35         android:layout_width="wrap_content"
36         android:layout_height="wrap_content"
37         android:text="state"
38         tools:layout_editor_absoluteX="163dp"
39         tools:layout_editor_absoluteY="429dp" />
40
41     <TextView
42         android:id="@+id/textView_detail_website"
43         android:layout_width="wrap_content"
44         android:layout_height="wrap_content"
45         android:text="TextView"
46         tools:layout_editor_absoluteX="200dp"
47         tools:layout_editor_absoluteY="533dp" />
48 </androidx.constraintlayout.widget.ConstraintLayout>
```

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/
  android"
3     xmlns:app="http://schemas.android.com/apk/res-auto"
4     xmlns:tools="http://schemas.android.com/tools"
5     android:id="@+id/layout_charityitem"
6     android:layout_width="match_parent"
7     android:layout_height="match_parent"
8     tools:context=".CharityDetailActivity">
9
10    <TextView
11        android:id="@+id/textView_charityitem_name"
12        android:layout_width="wrap_content"
13        android:layout_height="wrap_content"
14        android:layout_marginStart="8dp"
15        android:layout_marginTop="8dp"
16        android:text="name"
17        android:textSize="24sp"
18        app:layout_constraintStart_toStartOf="parent"
19        app:layout_constraintTop_toTopOf="parent" />
20
21    <TextView
22        android:id="@+id/textView_charityitem_category"
23        android:layout_width="wrap_content"
24        android:layout_height="wrap_content"
25        android:layout_marginTop="8dp"
26        android:layout_marginEnd="8dp"
27        android:text="category"
28        android:textSize="20sp"
29        app:layout_constraintEnd_toEndOf="parent"
30        app:layout_constraintTop_toTopOf="parent" />
31
32    <TextView
33        android:id="@+id/textView_charityitem_city"
34        android:layout_width="wrap_content"
35        android:layout_height="wrap_content"
36        android:layout_marginStart="8dp"
37        android:layout_marginTop="8dp"
38        android:text="city"
39        android:textSize="20sp"
40        app:layout_constraintStart_toStartOf="parent"
41        app:layout_constraintTop_toBottomOf="@+id/textView_charityitem_name" />
42
43    <TextView
44        android:id="@+id/textView_charityitem_state"
45        android:layout_width="wrap_content"
46        android:layout_height="wrap_content"
47        android:layout_marginStart="8dp"
48        android:layout_marginTop="8dp"
49        android:text="state"
50        android:textSize="20sp"
51        app:layout_constraintStart_toEndOf="@+id/textView_charityitem_city"
52        app:layout_constraintTop_toBottomOf="@+id/textView_charityitem_name" />
53
54    <TextView
55        android:id="@+id/website_charityitem_website"
56        android:layout_width="384dp"
57        android:layout_height="28dp"
58        android:layout_marginStart="8dp"
59        android:layout_marginTop="8dp"
60        android:text="website"
61        android:textSize="16sp"
62        app:layout_constraintStart_toStartOf="parent"
63        app:layout_constraintTop_toBottomOf="@+id/textView_charityitem_city" />
64 </androidx.constraintlayout.widget.ConstraintLayout>
```