## RecyclerView

## **Latest Items**



Namkeen

500gm

Rs.350







Sona Namkeen

250gm

Rs.100











Lays 100

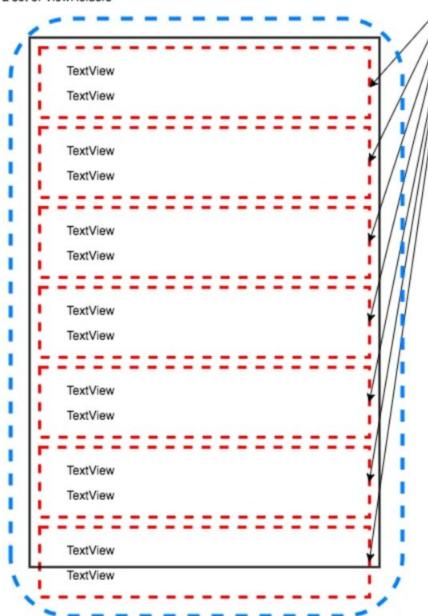
Rs.40

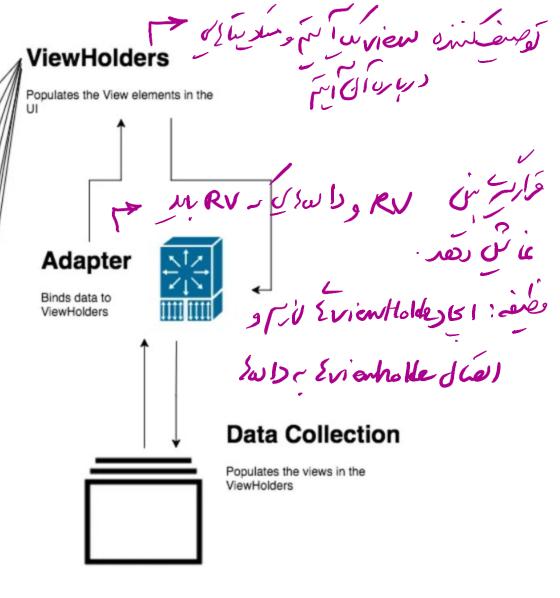


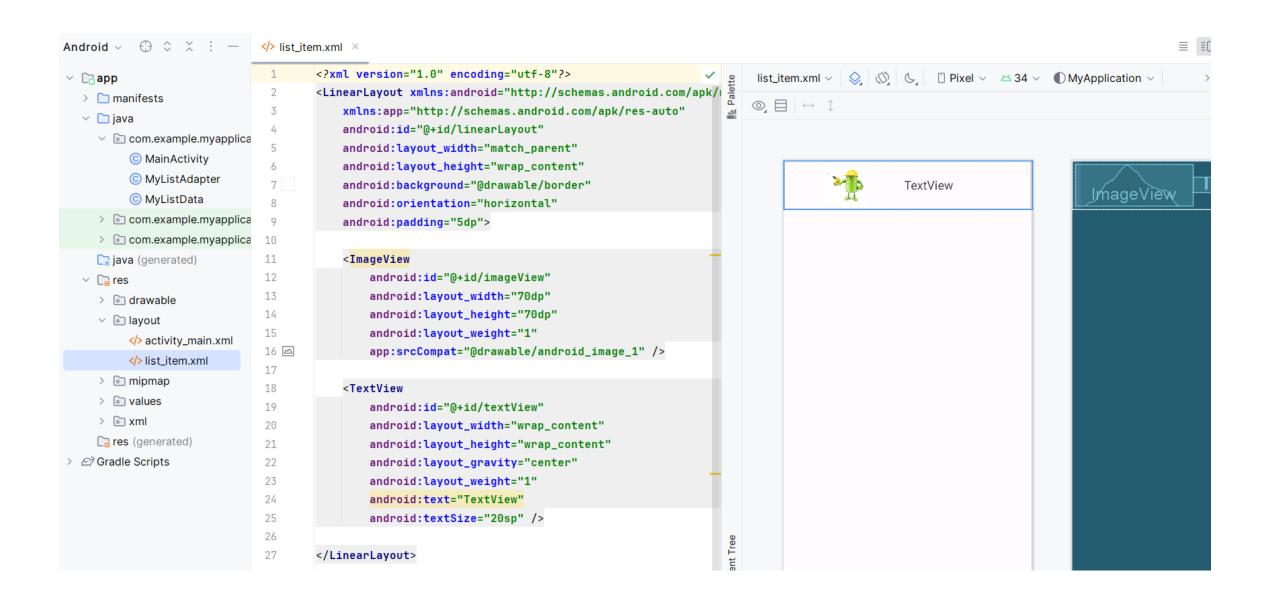


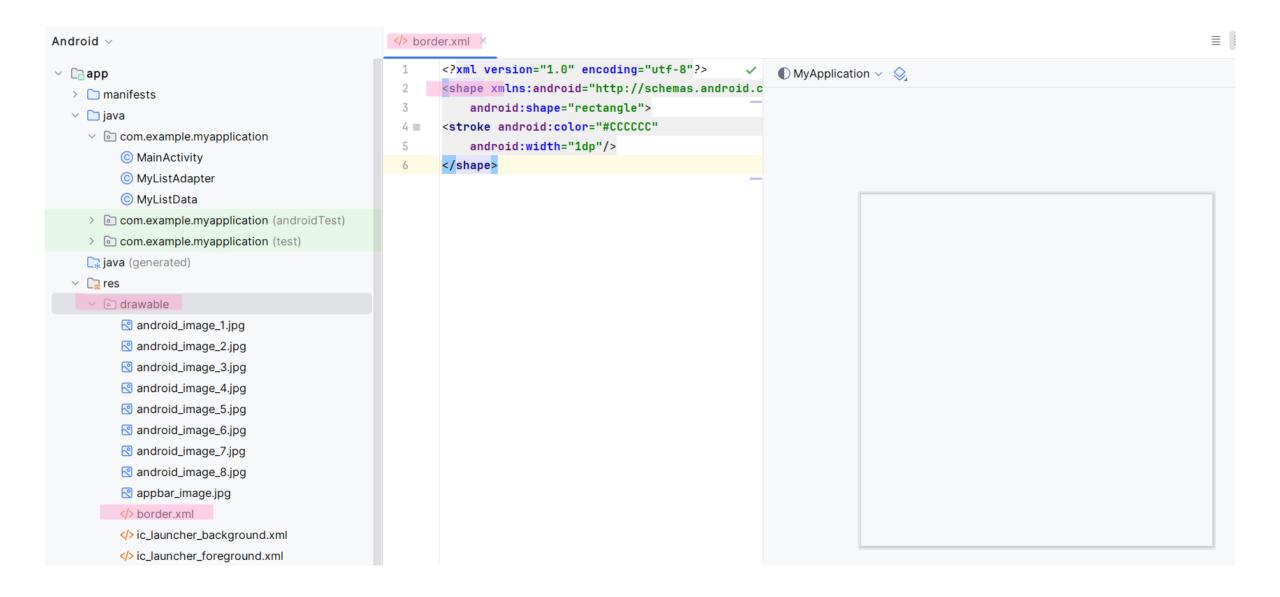
**RecyclerView** 

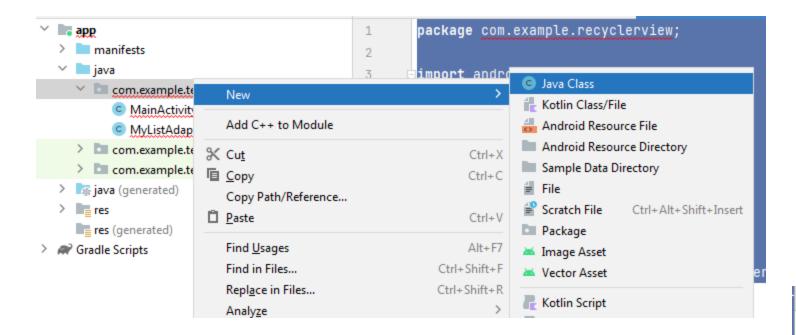
Recycles data within a set of ViewHolders

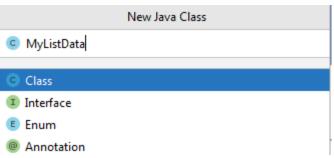












```
package com.example.myapplication;
 2
     29 usages
 3
     public class MyListData {
         2 usages
 4
         String title;
         2 usages
 5
         int imgId;
 6
 7
         //..... Constructor: to MainActivity
         24 usages
 8
         public MyListData(String title, int imgId) {
 9
             this.title = title;
             this.imgId = imgId;
10
11
12
      //.....Getters: will be called in Adapter class
13
14
         // (MyListAdapter), customize layout: List_item
         2 usages
         public String getTitle() { return title; }
15 >
18
         1 usage
         public int getImgId() { return imgId; }
19 >
22
23
     }//MyListData
```

```
MyListAdapter.java ×
       package com.example.myapplication;
 3
       import android.view.LayoutInflater;
                                                                             برای مدیریت viewHolderها
 4
       import android.view.View;
 5
       import android.view.ViewGroup;
       import android.widget.ImageView;
       import android.widget.LinearLayout;
 8
       import android.widget.TextView;
       import android.widget.Toast;
 9
10
       import androidx.annotation.NonNull;
11
12
       import androidx.recyclerview.widget.RecyclerView;
13
       3 usages
       public class MyListAdapter extends RecyclerView.Adapter <MyListAdapter.ViewHolder> {
14
15
           5 usages
16
           private MyListData[] listData;
           //.....Constructor:
17
           1 usage
           public MyListAdapter(MyListData[] listData) {
18
19
               this.listData = listData;
20
21
```

```
MyListAdapter.java ×
```

```
24
           @Override
25 C
           public ViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
                                                                                                        مدیریت viewHolderها از طریق:
               LayoutInflater layoutInflater=LayoutInflater.from(parent.getContext());
26
               View listItem=layoutInflater.inflate(R.layout.list_item,parent, attachToRoot: false);
27
                                                                                                     ۱– انجاد viewHolder در صورت نیاز
               ViewHolder viewHolder=new ViewHolder(listItem);
28
29
               return viewHolder;
           }//onCreateViewHolder
30
31
32
           @Override
33 C
           public void onBindViewHolder(@NonNull ViewHolder holder, int position) {
                                                                                            ۲– اتصال viewHolderها به دادههای متناظر با
34
               MyListData myListData=listData[position];
                                                                                                       در نظر گرفتن موقعیت (position)
35
               holder.textView.setText(listData[position].getTitle());
               holder.imageView.setImageResource(listData[position].getImgId());
36
               holder.linearLayout.setOnClickListener(new View.OnClickListener() {
37
                   @Override
38
39 (I)
                   public void onClick(View view) {
                        Toast.makeText(view.getContext(), text: "clicked on item: "+myListData.getTitle(), Toast.LENGTH_LONG).show();
40
41
               });
42
           }//onBindViewHolder
43
```

```
MyListAdapter.java ×
45
            @Override
                                                   تعداد کل مجموعه دادهها توسط Adapter نگه داشته می شود.
46 (I)
            public int getItemCount() {
                                                                                    مورد استفاده در onBind
47
48
                return listData.length;
49
50
                                                                    نمایش viewها توسط شی view نمایش
            5 usages
51
            public class ViewHolder extends RecyclerView.ViewHolder {
52
                2 usages
53
                public ImageView imageView;
                2 usages
54
                public TextView textView;
                2 usages
55
                public LinearLayout linearLayout;
56
57
               1 usage
58
                public ViewHolder(@NonNull View itemView) {
59
                    super(itemView);
                    this.imageView=itemView.findViewById(R.id.imageView);
60
61
                    this.textView=itemView.findViewById(R.id.textView);
62
                    this.linearLayout=itemView.findViewById(R.id.linearLayout);
63
                }//ViewHolder
64
           }//class ViewHolder
       }//MyListAdapter
65
```

```
MainActivity.java ×
              @Override
15
16 ©1
              protected void onCreate(Bundle savedInstanceState) {
                  super.onCreate(savedInstanceState);
17
18
                  setContentView(R.layout.activity_main);
19
                  MyListData[] myListData = new MyListData[] {
20
21 🖴
                          new MyListData( title: "image 1", R.drawable.αndroid_image_1),
22 🛆
                          new MyListData( title: "image 2", R.drawable.αndroid_image_2),
23 🖎
                          new MyListData( title: "image 3", R.drawable.android_image_3),
24 🛆
                          new MyListData( title: "image 4",R.drawable.android_image_4),
25 🖎
                          new MyListData( title: "image 5", R.drawable.αndroid_image_5),
26 🖎
                          new MyListData( title: "image 6", R.drawable.αndroid_image_6),
27 🖾
                          new MyListData( title: "image 7", R.drawable.αndroid_image_7),
28 🖎
                          new MyListData( title: "image 8", R.drawable.αndroid_image_8),
29 🖴
                          new MyListData( title: "image 9", R.drawable.android_image_1),
30 🖎
                          new MyListData( title: "image 10", R.drawable.android_image_2),
31 🛆
                          new MyListData( title: "image 11", R.drawable.android_image_3),
32 🖎
                          new MyListData( title: "image 12", R.drawable.android_image_4),
33 🖎
                          new MyListData( title: "image 13", R.drawable.android_image_5),
34 🖎
                          new MyListData( title: "image 14", R.drawable.android_image_6),
35 🖎
                          new MyListData( title: "image 15", R. drawable. android_image_7),
36
                          new MyListData( title: "image 16", R.drawable.android_image_8),
37
                          new MyListData( title: "image 17", R.drawable.android_image_1),
38 🖎
                          new MyListData( title: "image 18", R.drawable.android_image_2),
39 🖴
                          new MyListData( title: "image 19", R.drawable.android_image_3),
40
                          new MyListData( title: "image 20", R.drawable.android_image_4),
41 🛆
                          new MyListData( title: "image 21", R.drawable.android_image_5),
42 🖎
                          new MyListData( title: "image 22", R.drawable.android_image_6),
43
                          new MyListData( title: "image 23", R.drawable.android_image_7),
44 🛆
                          new MyListData( title: "image 24", R.drawable.android_image_8),
```

45

};

```
RecyclerView recyclerView=findViewById(R.id.recyclerView);
MyListAdapter adapter=new MyListAdapter(myListData);
recyclerView.setLayoutManager(new LinearLayoutManager(context: this));
recyclerView.setAdapter(adapter);
adapter تنظیم چیدمان
```

}//onCreate

}//MainActivity