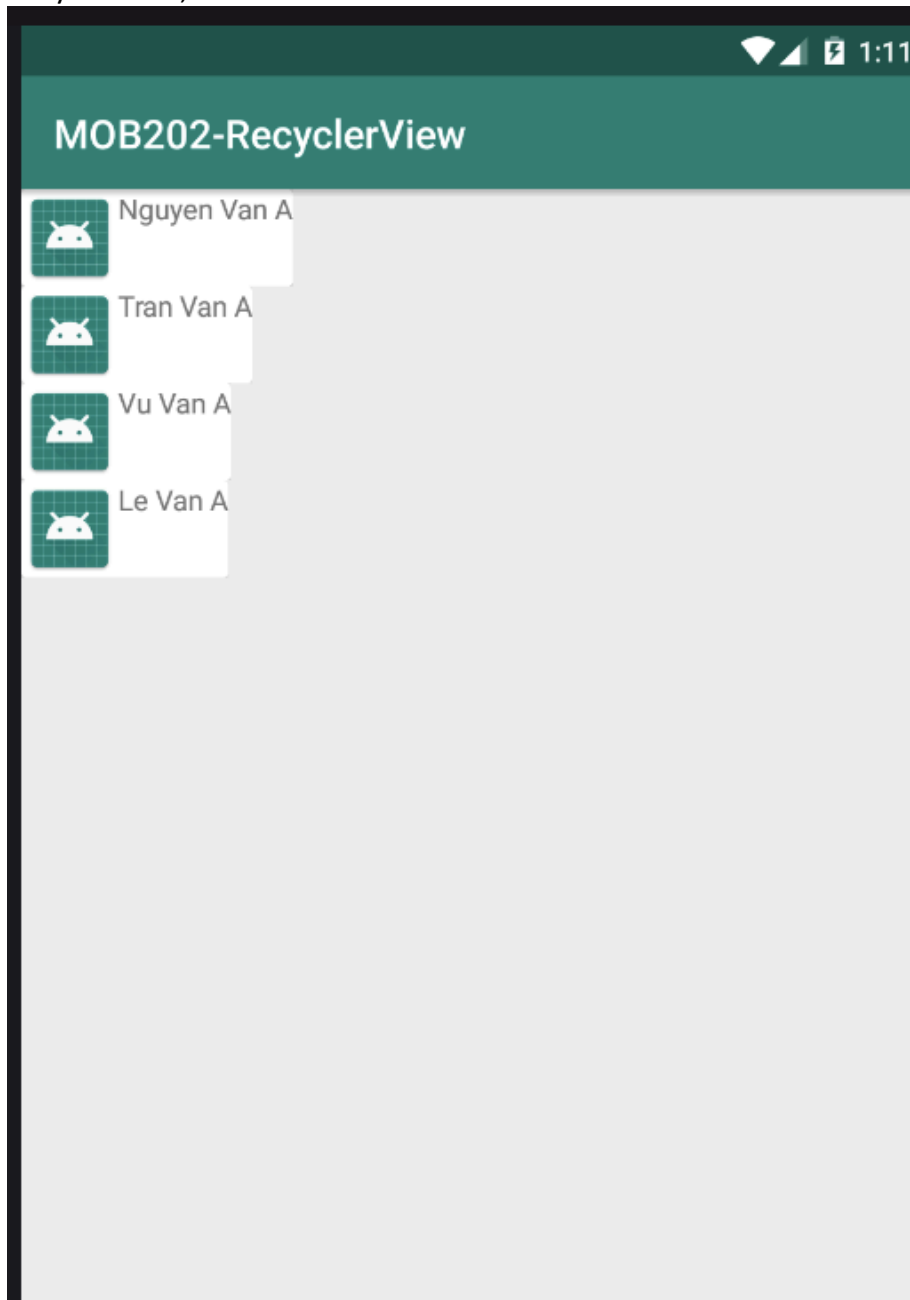
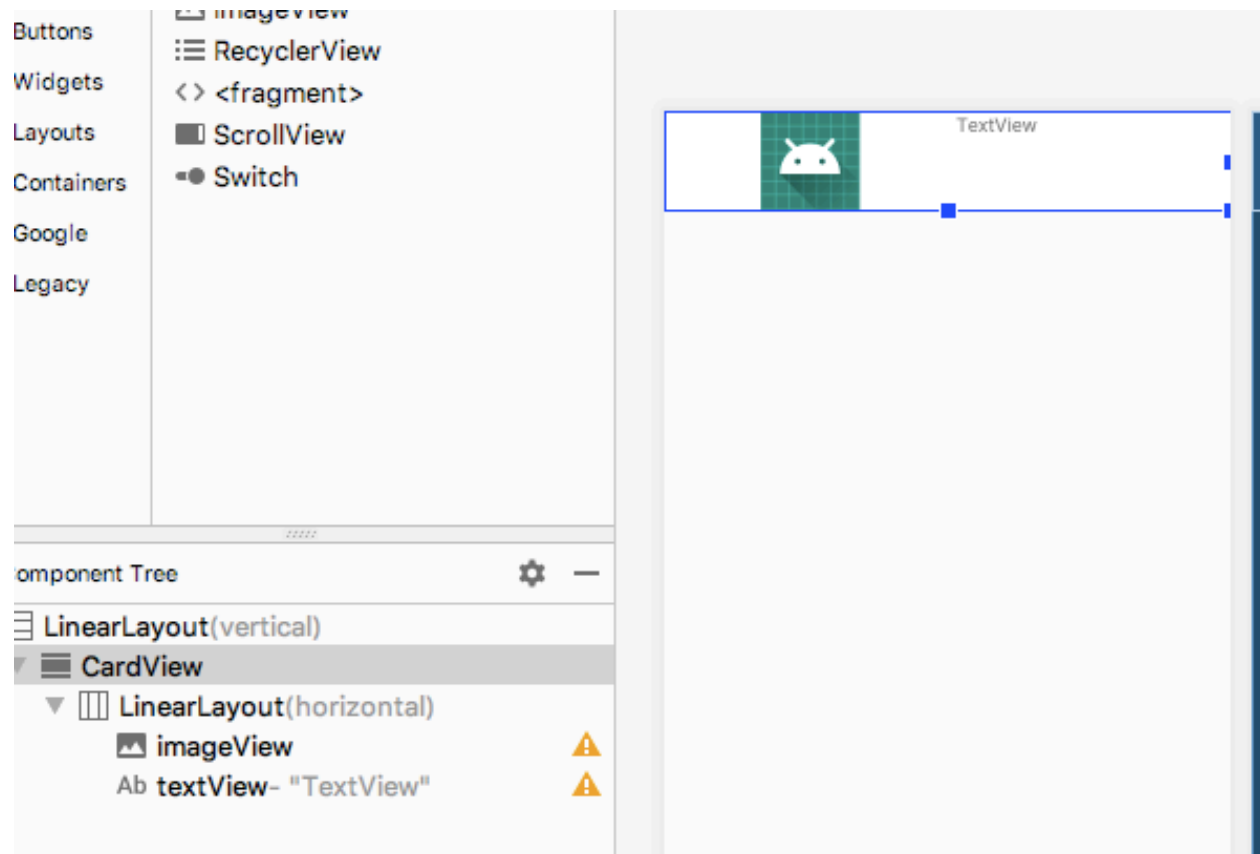


## RecyclerView, cardview



b1: Create Cardview



```
activity_main.xml × Contact.java × MyAdapter.java × MainActivity.java × item_view.xml ×
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:orientation="vertical" android:layout_width="match_parent"
    android:layout_height="match_parent">

    <androidx.cardview.widget.CardView
        android:layout_width="match_parent"
        android:layout_height="wrap_content" >

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="horizontal">

            <ImageView
                android:id="@+id/imageView"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_weight="1"
                app:srcCompat="@mipmap/ic_launcher" />

            <TextView
                android:id="@+id/textView"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_weight="1"
                android:text="TextView" />

        </LinearLayout>
    </androidx.cardview.widget.CardView>
</LinearLayout>
```

B2: Create Contacts class, link with Cardview

```
activity_main.xml ×  Contact.java ×  MyAdapter.java ×  MainActivity.java ×  item_v
package com.example.mob202_recyclerview;

public class Contact {
    private String name;
    private int pic;

    public Contact() {
    }

    public Contact(String name, int pic) {
        this.name = name;
        this.pic = pic;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public int getPic() {
        return pic;
    }

    public void setPic(int pic) {
        this.pic = pic;
    }
}
```

B3: Create inner class in adapter, link with cardview

```

public static class ViewHolder extends RecyclerView.ViewHolder{
    public ImageView imageView;
    public TextView textView;

    public ViewHolder(View itemView) {
        super(itemView);
        imageView = itemView.findViewById(R.id.imageView);
        textView = itemView.findViewById(R.id.textView);
    }
}

```

#### B4: Define myAdapter for Recyclerview

```

ctivity_main.xml × Contact.java × MyAdapter.java × MainActivity.java × item_view.xml ×
public class MyAdapter extends RecyclerView.Adapter<MyAdapter.ViewHolder> {
    List<Contact> list;
    Context context;
    public MyAdapter(List<Contact> list, Context context) {
        this.list = list;
        this.context = context;
    }
    //tao view
    @Override
    public ViewHolder onCreateViewHolder(ViewGroup parent, int viewType) {
        View view = LayoutInflater.from(context).inflate(R.layout.item_view, root: null);
        return new ViewHolder(view);
    }
    //gan du lieu
    @Override
    public void onBindViewHolder(ViewHolder holder, int position) {
        holder.textView.setText(list.get(position).getName());
        holder.imageView.setImageResource(list.get(position).getPic());
    }

    @Override
    public int getItemCount() {
        return list.size();
    }

    public static class ViewHolder extends RecyclerView.ViewHolder{
        public ImageView imageView;
        public TextView textView;

        public ViewHolder(View itemView) {
            super(itemView);
            imageView = itemView.findViewById(R.id.imageView);
            textView = itemView.findViewById(R.id.textView);
        }
    }
}

```

#### B5: define Recyclerview in mainActivity

```
activity_main.xml x Contact.java x MyAdapter.java x MainActivity.java x item_view.xml x
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/rcv"
        android:layout_width="match_parent"
        android:layout_height="match_parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

b6: get data and set adapter in MainActivity

```
activity_main.xml x Contact.java x MyAdapter.java x MainActivity.java x item_view.xml x
1 package com.example.mob202_recyclerview;
2
3 import ...
11
12 public class MainActivity extends AppCompatActivity {
13     RecyclerView recyclerView;
14     List<Contact> contacts = new ArrayList<>();
15
16     @Override
17     protected void onCreate(Bundle savedInstanceState) {
18         super.onCreate(savedInstanceState);
19         setContentView(R.layout.activity_main);
20         recyclerView = findViewById(R.id.rcv);
21         contacts.add(new Contact( name: "Nguyen Van A",R.mipmap.ic_launcher));
22         contacts.add(new Contact( name: "Tran Van A",R.mipmap.ic_launcher));
23         contacts.add(new Contact( name: "Vu Van A",R.mipmap.ic_launcher));
24         contacts.add(new Contact( name: "Le Van A",R.mipmap.ic_launcher));
25
26         LinearLayoutManager layoutManager = new LinearLayoutManager( context: this);
27         recyclerView.setLayoutManager(layoutManager);
28         MyAdapter adapter = new MyAdapter(contacts, context: this);
29         recyclerView.setAdapter(adapter);
30     }
31 }
32 }
```