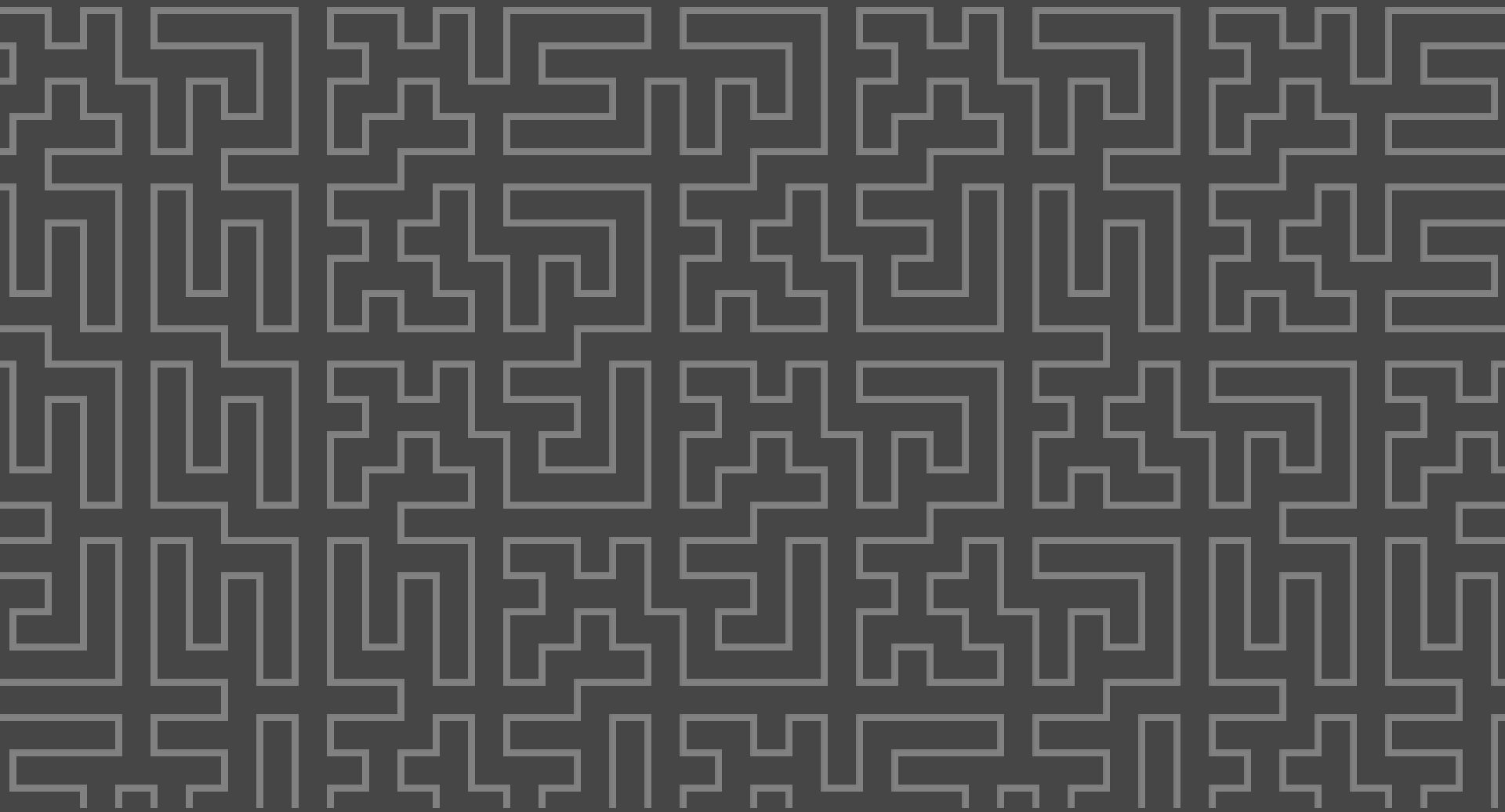


# MOBILE DEVELOPMENT



ListView and RecyclerView

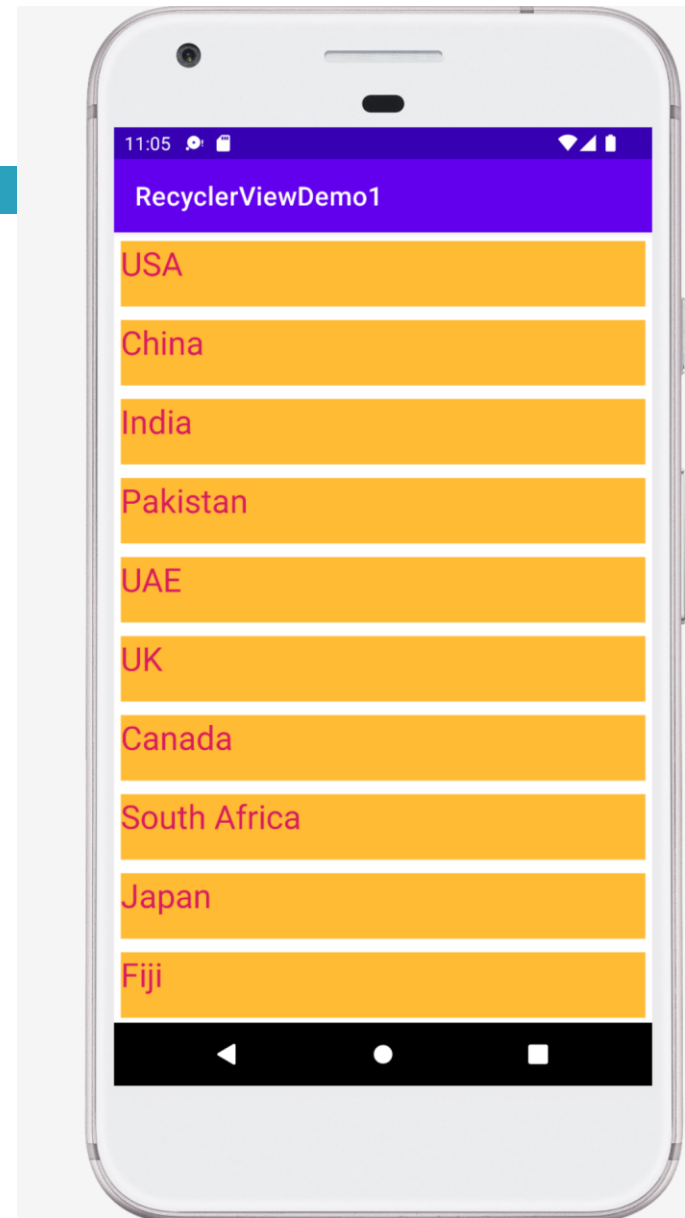
# Content

---

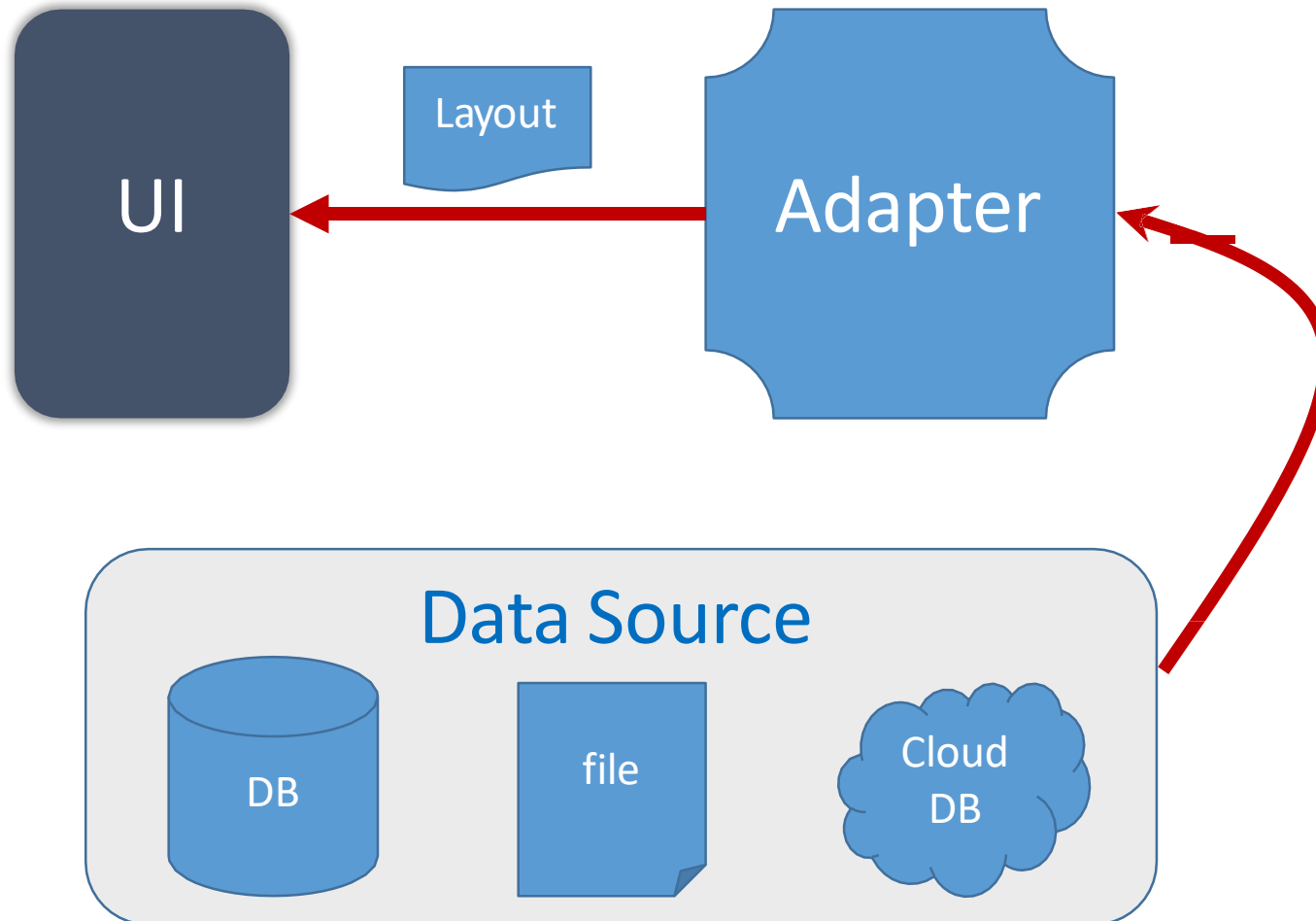
- ☐ ListView
- ☐ RecyclerView
- ☐ CardView

# RecyclerView

```
<TextView xmlns:android="..."
    android:layout_width="match_parent"
    android:layout_height="50sp"
    android:layout_margin="5dp"
    android:text="Country Name"
    android:id="@+id/cName"
    android:textSize="25sp"
/>
```



# How it works?



# ViewHolder

```
public class RVHolder extends RecyclerView.ViewHolder {
    TextView tv;

    public RVHolder(@NonNull final View itemView) {
        super(itemView);
        tv = itemView.findViewById(R.id.cName);

        tv.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Toast.makeText(itemView.getContext(),
                    tv.getText() + " clicked!",
                    Toast.LENGTH_LONG).show();
            }
        });
    }
}
```

# RecyclerView.Adapter

```
public class RVAdapter extends RecyclerView.Adapter<RVHolder> {
    String data[];

    public RVAdapter(String[] data) {
        this.data = data;
    }

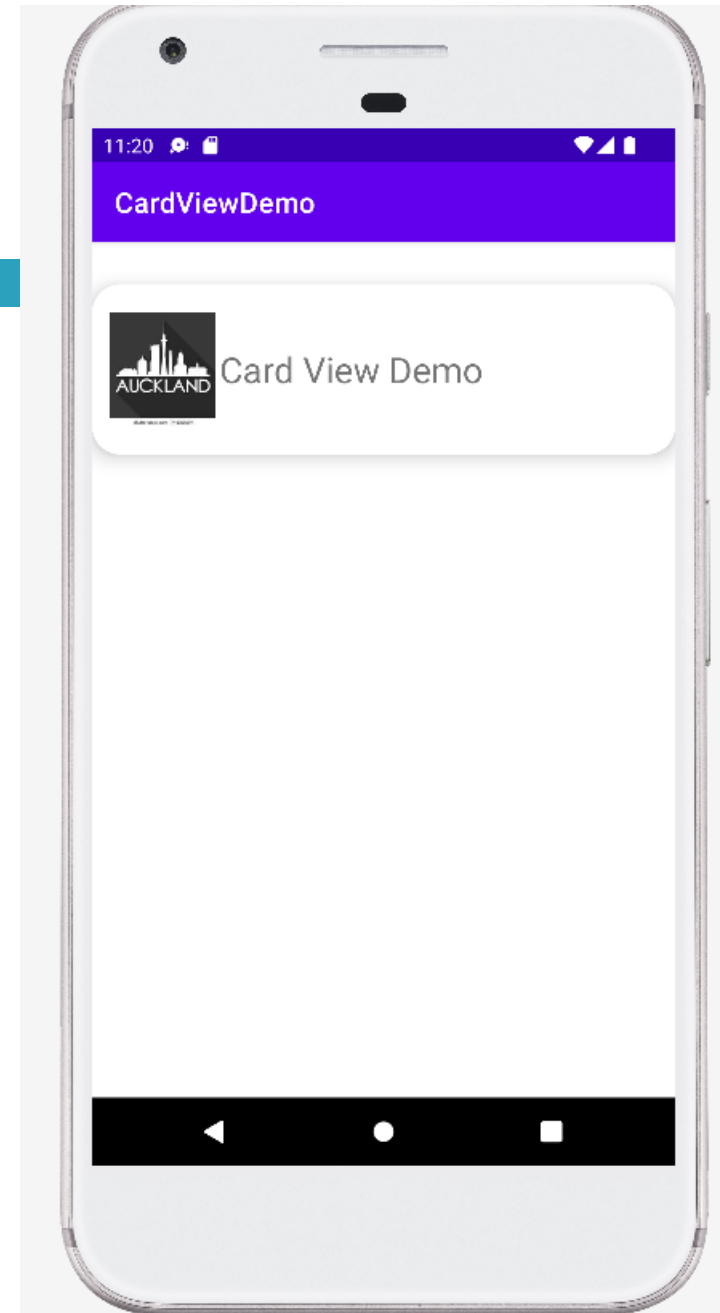
    @NonNull
    @Override
    public RVHolder onCreateViewHolder(
        @NonNull ViewGroup parent, int viewType) {
        LayoutInflater lf = LayoutInflater.from(parent.getContext());
        View view= lf.inflate(R.layout.rv_item,parent,false);
        return new RVHolder(view);
    }

    @Override
    public void onBindViewHolder(@NonNull RVHolder holder, int position) {
        holder.tv.setText(data[position]);
    }

    @Override
    public int getItemCount() {
        return data.length;
    }
}
```

# CardView

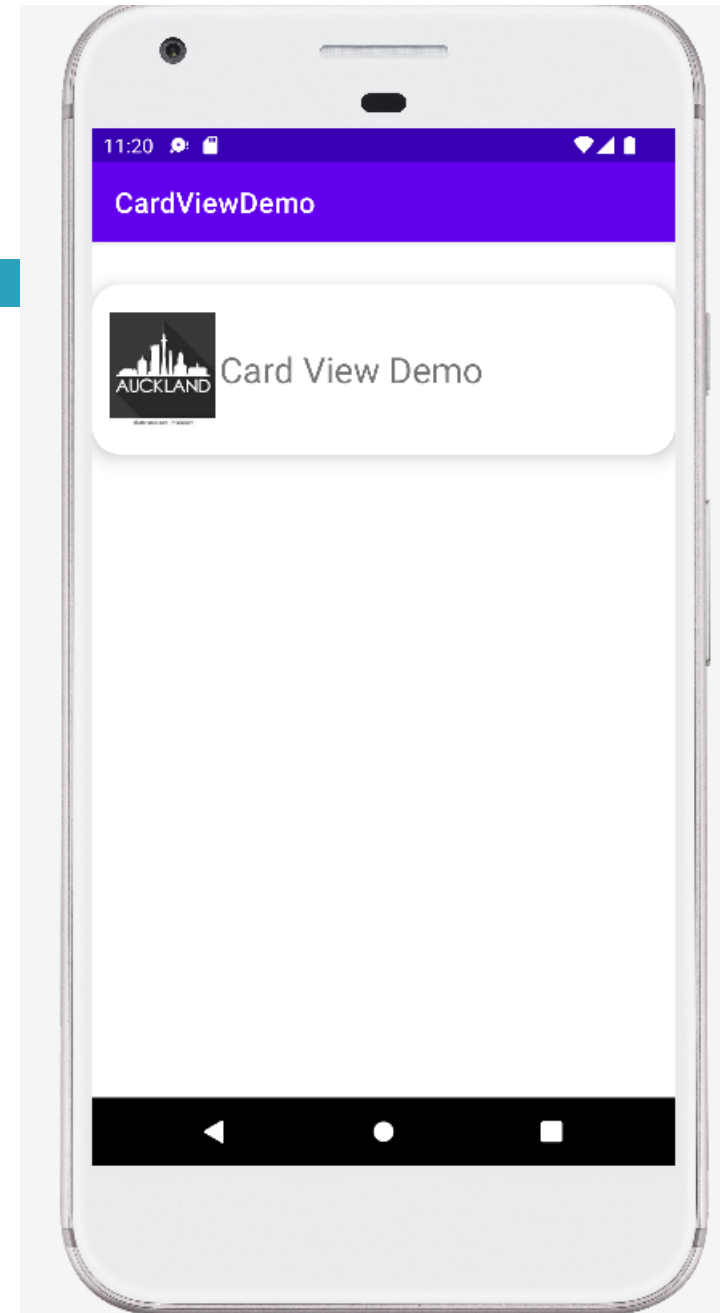
```
<androidx.cardview.widget.CardView  
    android:layout_marginTop="30dp"  
    android:layout_width="match_parent"  
    android:layout_height="120dp"  
    app:cardElevation="10dp"  
    app:cardCornerRadius="20dp"  
>
```



# CardView

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">
<ImageView
    android:layout_width="80dp"
    android:layout_height="80dp"
    android:layout_marginLeft="10dp"
    android:layout_gravity="center"
    android:src="@drawable/auckland"
/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Card View Demo"
    android:textSize="25sp"
    android:layout_gravity="center"

/>
</LinearLayout>
```

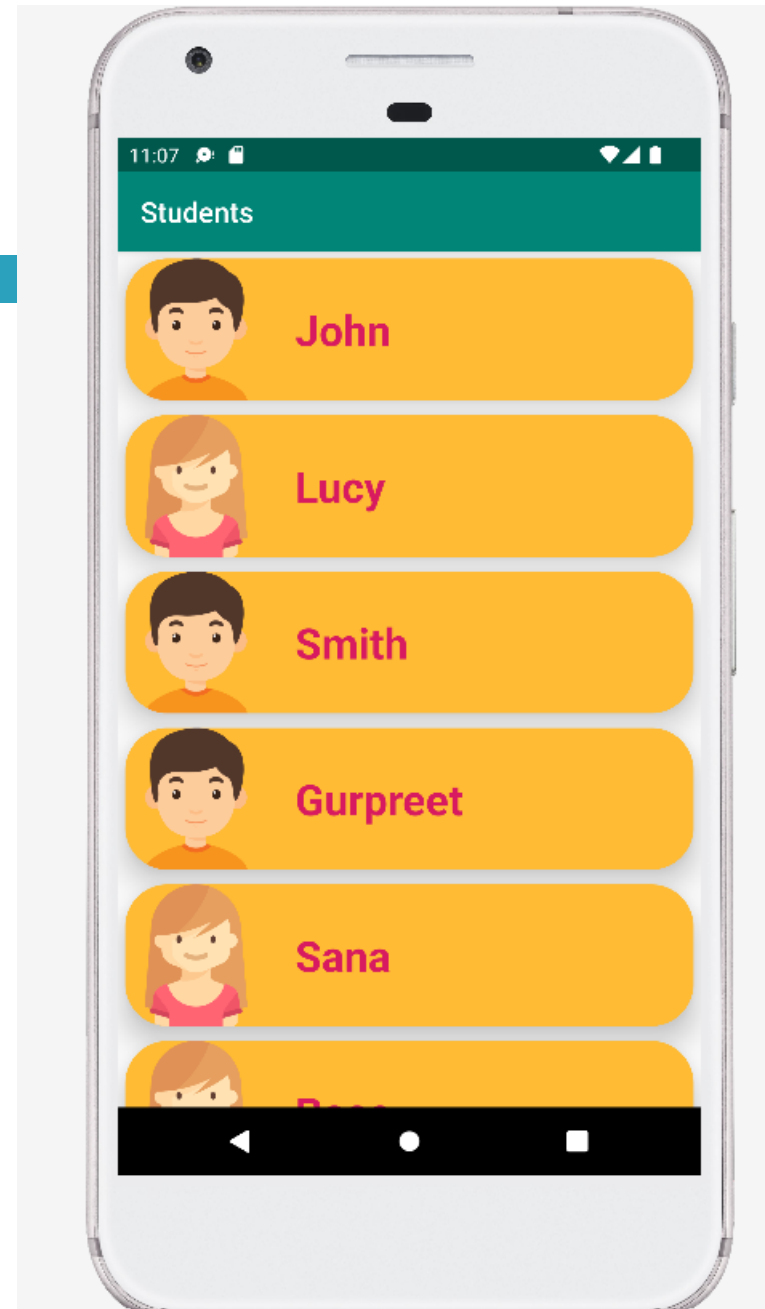






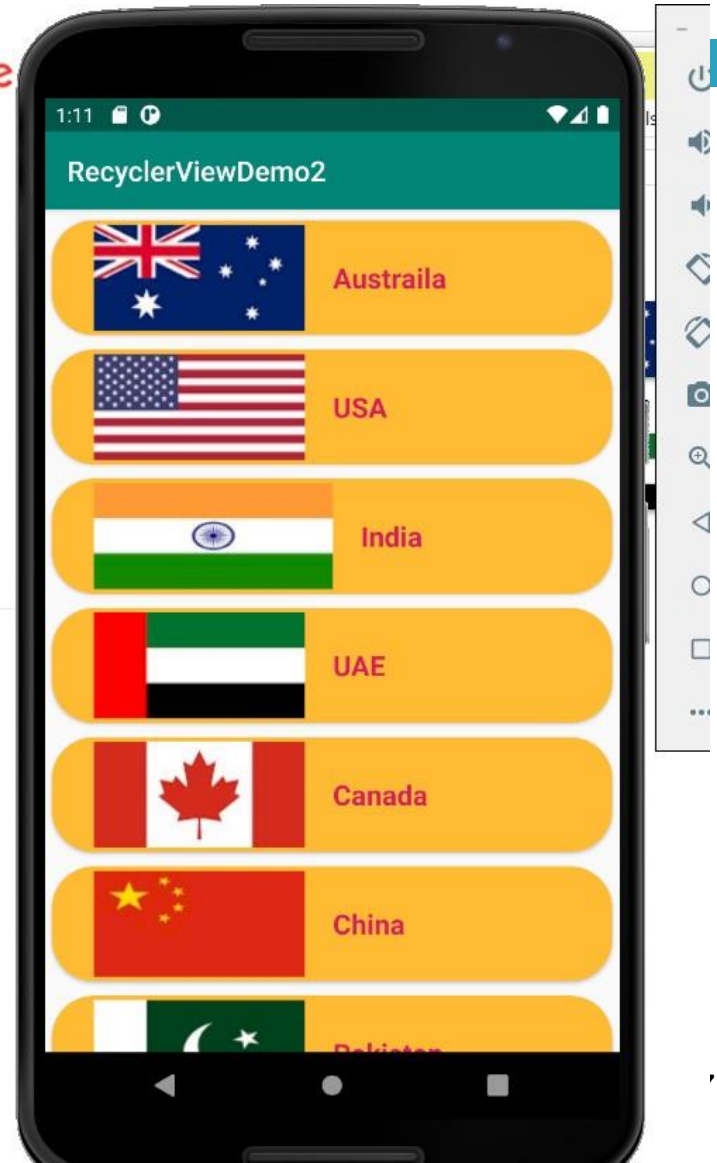
# Exercise 1

Use RecyclerView with  
CardView for this App



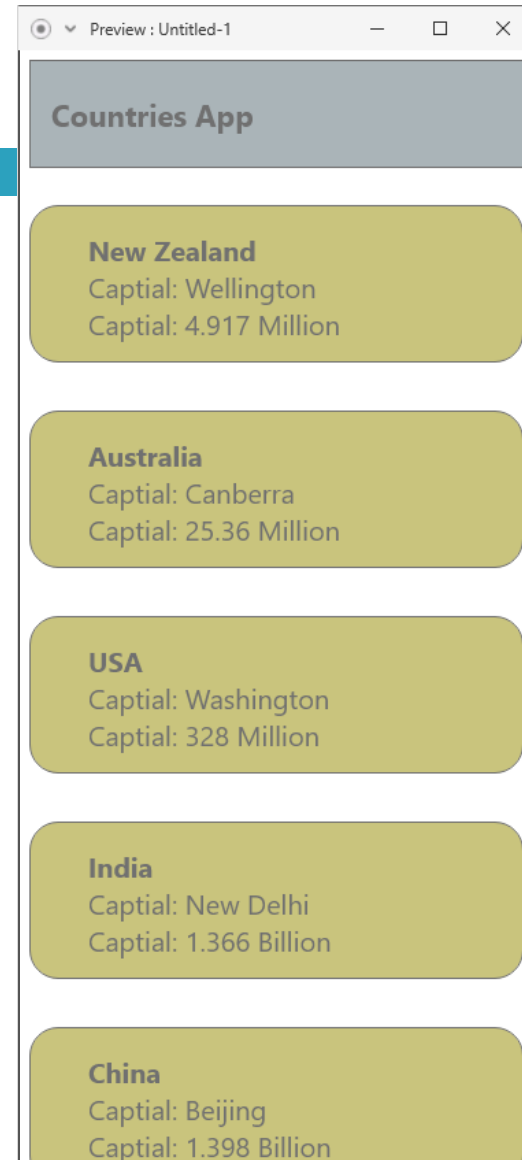
# Exercise 2

Use RecyclerView with  
CardView for this App



# Exercise 3

Use RecyclerView with  
CardView for this App



# Reference

- ❑ <https://developer.android.com/reference/android/widget/ListView>
- ❑ <https://developer.android.com/guide/topics/ui/layout/recyclerview>
- ❑ <https://developer.android.com/reference/android/support/v7/widget/RecyclerView>