

DHT-11

Measure Humidity and temperature



Recycler View:

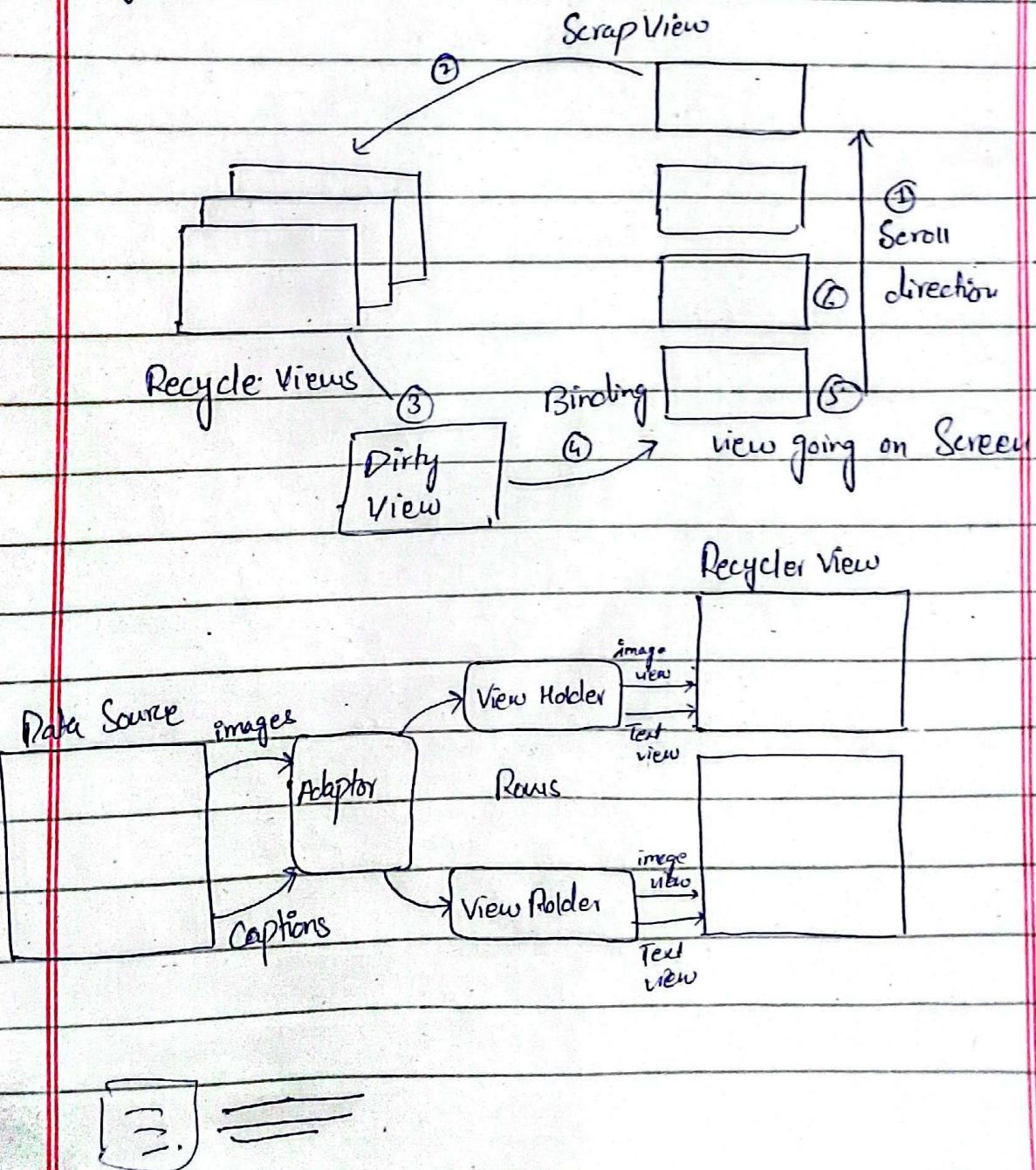
- It is flexible and efficient version of ListView
- it is an Container for rendering larger data set of views that can be recycled and scrolled very efficiently.

Why use Recycler View?

- ↳ RecyclerView makes it easy to efficiently display large sets of data.
- ↳ You supply the data and define how each item looks, and the RecyclerView library dynamically creates the elements when they're needed.
- ↳ As the name implies, Recycler view recycles those individual elements.

- When an item scrolls off the screen, Recycler View does not destroy its view. Instead, Recycler View reuses the view for new items that have scrolled on screen.
- This reuse vastly improves performance, improving your app's responsiveness and reducing power consumption.

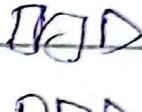
Diagram:



↳ use Structured instead of ArrayList
because Structured has multiply Datatype and
ArrayList ~~have~~ contains only one datatype

↳ Bitmap function used for show images from
internal Source.

→ layouts for Recycler View

- * Linear Layout 
- * Grid Layout 
- * Staggered Layout 

First Create the XML:

Palette > Container > RecyclerView

MainActivity.java

RecyclerView recyclerView = ...

recyclerView.setLayoutManager(new LinearLayoutManager(this));

Add new layout xml file

Design XML File

use CardView

↳ Create Structured Class in java file

int img;

String name, number;

Create Constructor

 (int img, String name, String number)
 public class name() {
 this.name = name;
 this.number = number;
 this.img = img;

↳ Go Main Activity

ArrayList > arrConto = new ArrayList<>();

arrConto.add(new CardView(img, " ", " ", " "));

↳ Create Adapter:

Create adapter new java class

Public class RecyclerViewContactAdapter extends
RecyclerView.Adapter {

 Public class ViewHolder {

 Public ViewHolder(View itemView) {

 Super(itemView);

 } Three override methods

 i - onCreateViewHolder → Create viewHolder

 ii - onBindViewHolder → Dataset

 iii - getItemCount → adapter knows the last element

→ on create holder

 layoutInflator.inflate()

 myLayout.Inflated

Firebase in Android Studio

↳ often, the back-end is the limiting factor - many considerations never apply to server-side coding due to lack of knowledge or time.

↳ Firebase removes that dependency of server end in completing a full Stack dynamic App.

↳ it can power your app's backend, including data storage user authentication, static hosting and more.