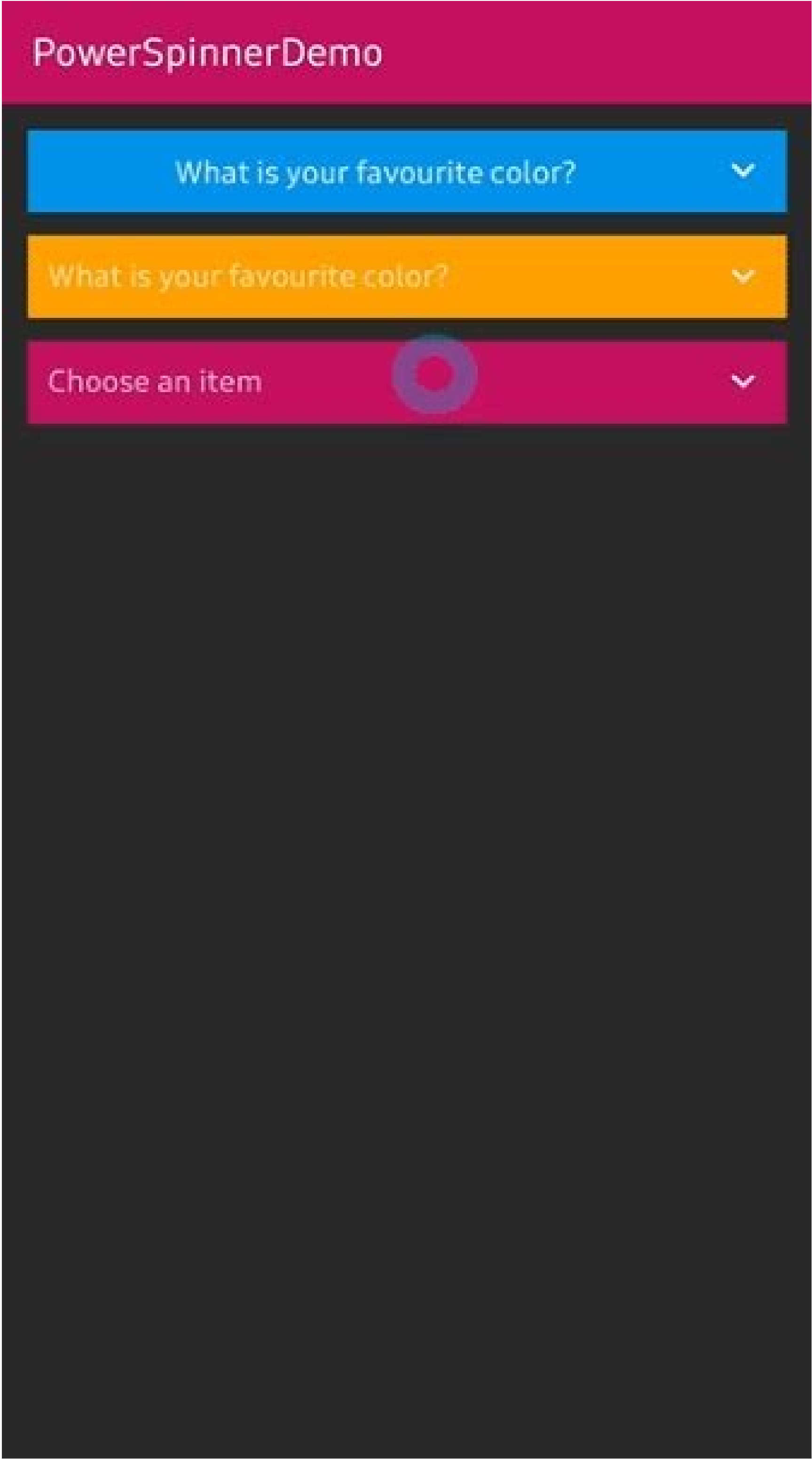
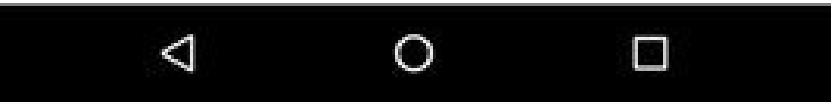
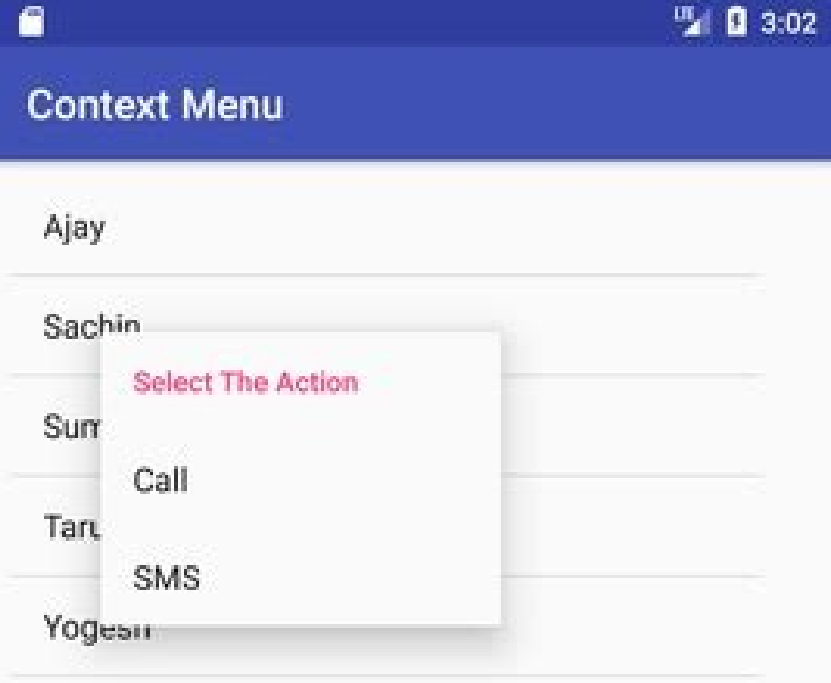


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When we use ListView or GridView for displaying custom items then we create a custom xml file and then use it inside our Adapter. compile "com.android.support.recyclerview-v7:23.0.1" } Need of RecyclerView In Android RecyclerView uses a ViewHolder for storing the reference of the view for one entry in the RecyclerView. In Android, RecyclerView is an advanced and flexible version of ListView and GridView. In Simple words we can say that we use the LinearLayoutManager for displaying RecyclerView as a ListView. It Contains the references for all the views that are filed by the data of the entry. We will have to override two main methods first one to inflate the view and its viewholder and another one to bind the data to the view. Basic RecyclerView XML code: Gradle Dependency to use RecyclerView: The RecyclerView widget is a part of separate library valid for API 7 level or higher. RecyclerView still uses Adapter to act as Data source but in this we have to create a ViewHolder to keep the reference of View in memory, so when we need a new view it either creates a new ViewHolder object to inflate the layout and hold those references or it recycles one from existing stack. Public constructor for StaggeredGridLayoutManager StaggeredGridLayoutManager(int spanCount, int orientation): it is used to create a StaggeredGridLayoutManager with given parameters. package abhiandroid.com.recyclerviewexample; import android.os.Bundle; import android.support.v7.app.AppCompatActivity; import android.support.v7.widget.LinearLayoutManager; import android.support.v7.widget.RecyclerView; import java.util.ArrayList; import java.util.Arrays; public class MainActivity extends AppCompatActivity { // ArrayList for person names ArrayList<String> personNames = new ArrayList<String>() { // Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main); // get the reference of RecyclerView RecyclerView recyclerView = (RecyclerView) findViewById(R.id.recyclerView); // set a LinearLayoutManager with default vertical orientation LinearLayoutManager linearLayoutManager = new LinearLayoutManager(getApplicationContext()); recyclerView.setLayoutManager(linearLayoutManager); // call the constructor of CustomAdapter to send the reference and data to Adapter CustomAdapter customAdapter = new CustomAdapter(MainActivity.this, personNames); recyclerView.setAdapter(customAdapter); // set the Adapter to RecyclerView } } Step 6: Create a new class CustomAdapter.java inside package and add the following code. Linear Layout Manager - It is used for displaying the data items in a horizontal or vertical scrolling List GridLayoutManager - It is used to show the items in grid format StaggeredGridLayoutManager - It is used to show the items in staggered Grid. Example: In below code snippet we show how to use this constructor in Android. For More Example Of RecyclerView Read: With the arrival of RecyclerView everything is changed. ListView/GridView recycle the item layout but don't keep the reference to the layout children, forcing us to call findViewById() for every child of our item layout for every time we call getView(). RecyclerView.Adapter: RecyclerView includes a new kind of Adapter. Add the following dependency in your Gradle build file to use recyclerview. Step 2: Open Gradle Scripts > build.gradle and add RecyclerView Library dependency in it. Gradle Scripts > build.gradle and inside dependencies dependencies { ... package abhiandroid.com.recyclerviewexample; import android.support.v7.widget.RecyclerView; import android.view.LayoutInflater; import android.view.View; import android.view.ViewGroup; import android.widget.TextView; public class CustomAdapter extends RecyclerView.Adapter { @Override public ViewHolder onCreateViewHolder(ViewGroup parent, int viewType) { // inflate the item Layout View v = LayoutInflater.from(parent.getContext()).inflate(R.layout.rowlayout, parent, false); // set the view's size, margins, paddings and layout parameters MyViewHolder vh = new MyViewHolder(v); // pass the view to View Holder return vh; } @Override public void onBindViewHolder(MyViewHolder holder, int position) { } @Override public int getItemCount() { return 0; } public class MyViewHolder extends RecyclerView.ViewHolder { TextView textView; // init the item view's public MyViewHolder(View itemView) { super(itemView); // get the reference of item view's textView = (TextView) itemView.findViewById(R.id.textView); } } } 4. It is mainly used when we have data collections whose elements can change at run time based on user action or any network events. // get the reference of RecyclerView recyclerView = (RecyclerView) findViewById(R.id.recyclerView); // set a GridLayoutManager with 3 number of columns , horizontal gravity and false value for reverseLayout to show the items from start to end GridLayoutManager gridLayoutManager = new GridLayoutManager(getApplicationContext(), 3, LinearLayoutManager.HORIZONTAL, false); recyclerView.setLayoutManager(gridLayoutManager); // set LayoutManager to RecyclerView For more details read RecyclerView Using GridLayoutManager With Example StaggeredGridLayoutManager It is used to show the items in staggered Grid. The main good thing in this is that the first method is called only when we really need to create a new view. In getView() method of our Adapter we inflate the item layout xml file and then give the reference of every view by using the unique id's we provide in our xml file . Step 4: Create a new XML file rowlayout.xml for item of RecyclerView and paste the following code in it. Third parameter is a boolean value when set to true layouts from end to start it means items are arranged from end to start. In this example we are using LinearLayoutManager with vertical orientation to display the items. Download Code Step 1: Create a new Project and name it RecyclerView Example. After that we creates an ArrayList for Person Names and set a LayoutManager and finally we set the Adapter to show the items in RecyclerView. It is a container used for displaying large amount of data sets that can be scrolled very efficiently by maintaining a limited number of views. If we need to display items in grid format then we can use GridLayoutManager. Components of RecyclerView In Android Below we define the mainly used components of a RecyclerView. // get the reference of RecyclerView RecyclerView recyclerView = (RecyclerView) findViewById(R.id.recyclerView); // set a LinearLayoutManager with default horizontal orientation and false value for reverseLayout to show the items from start to end LinearLayoutManager linearLayoutManager = new LinearLayoutManager(getApplicationContext(), LinearLayoutManager.HORIZONTAL, false); recyclerView.setLayoutManager(linearLayoutManager); // set LayoutManager to RecyclerView For more details read RecyclerView As ListView With Example GridLayoutManager It is used to show the items in grid format.

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