
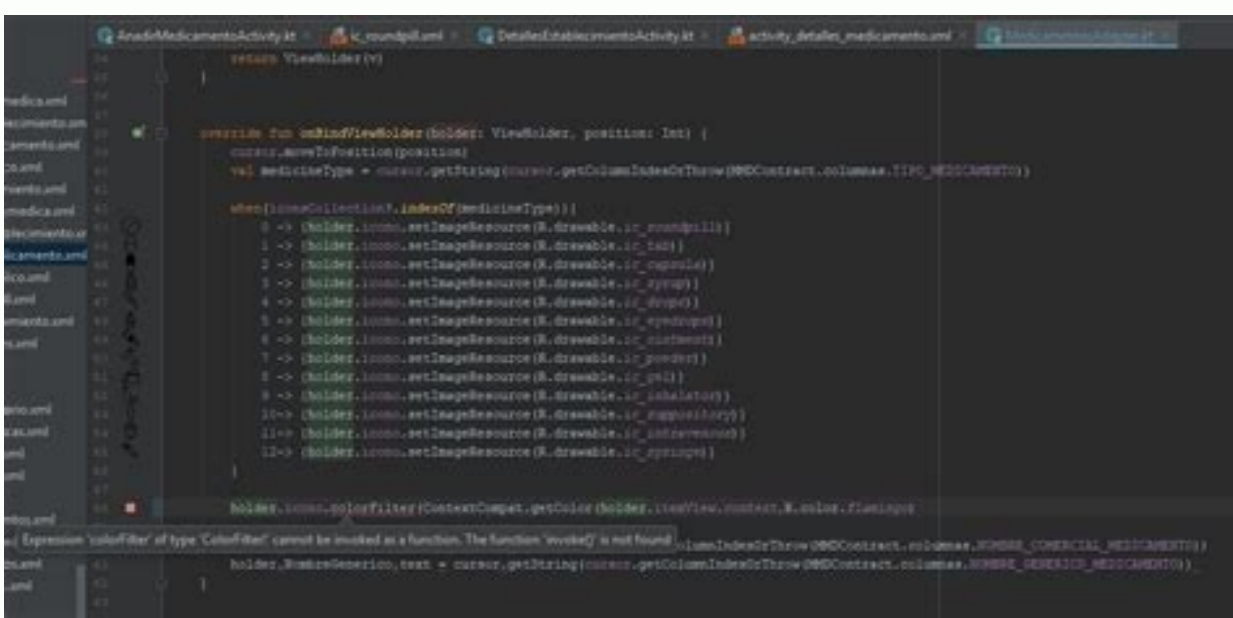
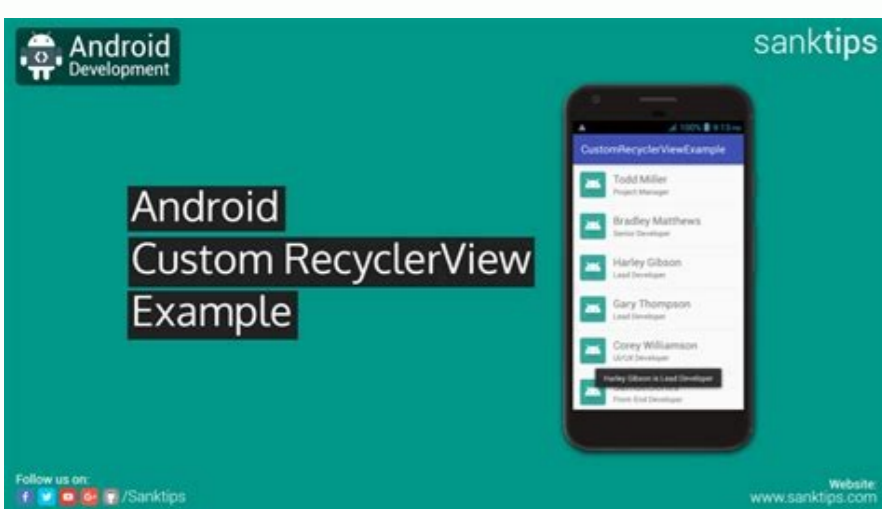


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**Next**

# Recyclerview adapter filter android



## REMOVE FRAGMENT FROM CONTAINER

Click on Below Button To add another fragment to the container

## ADD ANOTHER FRAGMENT

```
public class BookAdapter extends RecyclerView.Adapter<BookAdapter.BookViewHolder> implements Filterable {
    Context context;
    private List<Book> bookList = new ArrayList<>();
    private List<Book> bookListFiltered;
    OnItemClickListener #itemClickListener;

    @Override
    public BookViewHolder onCreateViewHolder(ViewGroup parent, int viewType) {
        View rootView = LayoutInflater.from(parent.getContext()).inflate(R.layout.item_recycler, parent, false);
        return new BookViewHolder(rootView);
    }

    public BookAdapter(List<Book> bookList, Context context, List<Book> bookListFiltered) {
        this.bookList = bookList;
        this.context = context;
        this.bookListFiltered = bookListFiltered;
    }

    @Override
    public Filter getFilter() {
        return new Filter() {
            @Override
            protected FilterResults performFiltering(CharSequence charSequence) {
                String charString = charSequence.toString();
                if (charString.isEmpty()) {
                    bookList = bookList;
                } else {
                    List<Book> filteredList = new ArrayList<>();
                    for (Book row : bookList) {
                        // name match condition, this might differ depending on your requirement
                        // here we are looking for name or phone number match
                        if (row.getTitle().toLowerCase().contains(charString.toLowerCase())) {
                            filteredList.add(row);
                        }
                    }
                }
            }
        };
    }
}
```



You may need to in the application where you want to implement the search functionality by having SearchView widget inside the toolbar / actionBar to filter the recyclerview items. In the previous series of tutorials we saw the basics of a RecyclerView 160; In this tutorial we will see the logic for filtering items in 160; RecyclerView Using filterable interface. 1. Build Gradle Add the following lines to the dependencies section in the project build. file rank and synchronization. Includes design support library,recyclerview library. file: build. Etldio dipendenze (implementation fileTree(dir:'libs', include: ['\*.jar']) implementation 'androidx.appcompat:appcompat:1.2.0'implementation 'androidx.recyclerview:recyclerview:1.1.0'}) 2.0 Menu Crea il layout XML del menu all'interno di res/menu/e aggiungi il widget SearchView as 160; file di menu: menu\_main.xml version="1.0" codifica="utf-8">< menu xmlns:android=" xmlns:app=" "> 4. Data to upload to RecyclerView. Adapter 160; RecyclerView! Adapter has three abstract methods that we have to overcome. onCreateViewHolder(): Within this method we specify the layout that each element of RecyclerView must use. onBindViewHolder has the return type of RecyclerView. ViewHolder representing each row of recyclerview. Using inflater get the view of the above-defined line element and pass it to the viewholder manufacturer and then return. onBindViewHolder(): Within this method the data will be displayed at the specified location. getItemCount(): Returns the total number of elements in the data set held by the adapter. 5.2 ViewHolderCreate Inner Class ViewHolder within the CustomAdapter class extends it to RecyclerView. ViewHolder, add the bind function that takes the object. 5 of the model data class defined above. 3 Filterable 160; Implements filterable interface to Customer Adapter and override and getFilter(). Within this method creates a filtering instance and bypasses the function of performFiltering and publications 160Filtering: this constraint assumes the constraint as parameter, the list is filtered, which is then set to FilterResults and then returns the result filter request. Published results: This feature takes As a parameter that is returned by the filtering function of the execution, within this we will set the filtered list for adapter and call notifyDataSetChanged. File: CustomAdapter. kt package package import Android. content. Context IMPORT ANDROID. View. Layoutwater IMPORT ANDROID. View. See to import Android. View. Viewgroup Import Android. Widget. Filter the Android import. Widget. Filterable AndroidX import. Recycling. Widget. RecyclerView Kotlin import. android. synthetic. principal. Riga article. View. \* Import Kotlin. Collections. ArioList Class Custommetrugg (Var CountyList. MutableList, Valet context: context) à € "RecyclerView. (). filterable (var countryfilterlist = click // examplelistisfull (country filterlist = counterlist as arraylist } override Onbindviewher (Holder: RecyclerView, position: int) ({Holder as ViewHolder). Override Oncreateviewholder (Parent: Viewgroup, viewType: int) ({Holder: RecyclerView, viewType: int) ({Holder as ViewHolder) (val lautwater = layoutinfwater.from (parent.context) Return ViewHolder (lautinfuter.gonia (r.layout.row element, parent, fake)) override fun getetecount (): int (return countryfilterlist.size) internal class viewholder (Itemview : View) à € RecyclerView. ViewHolder (ItemView) { Fun Bind (Model: Model): Unit à (ItemView.txt Filterresults {Val Charsearch = Vincolo.Tostring () SE (Charsearch.isVuoti () {CountryFilterlist = CountryList as Arraylist }} Arraylist = ARREYLIST For (Row in CountryList) {If IF (Row.Name.Tolowercase () contains (forcint.tostring LowerCase () FILTERERESULTS = FILTERERESULTS () FILTERERESULTS) Climb the results of the fun publication (constraint: CharseQuence?, Results: Filterlaresults? {Country FilterList = Results ?Values AS Arraylist NofyDataSetchanged ()}}}} 6. MainActivity created in Kotlin Class MainActivity . kt and extend to class.Override onCreate function and set the content of this MainActivity with the xml layout defined above ( \_main.xml activity). Create the full country list using the local class, this list will be set to RecyclerView. Set Linear Layout Vertical Manager to Recycle Vista. Create the

