DAY-10

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activity_home.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".HomeActivity">

    <android.widget.SearchView android:id="@+id/search_bar"
        android:layout_width="match_parent"
        android:layout_height="50dp"
        app:queryHint="serch"
        android:drawablePadding="10dp"
        android:background="#0F0F0F0F"
        android:layout_marginVertical="10dp"
        android:layout_marginHorizontal="10dp"
        android:paddingHorizontal="10dp"/>
    <TextView
        android:id="@+id/textView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="products"
        android:textSize="25dp"
        android:layout_below="@id/search_bar"
        style="@style/TextAppearance.AppCompat.Body2"
        android:padding="10dp"/>

    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/products_recycler_view"
        android:layout_below="@id/textView"
        android:layout_width="match_parent"
        android:layout_height="match_parent"/>

</RelativeLayout>
```

HomeActivity.java

```java
package com.example.sneha_task1;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.content.ContextCompat;
import androidx.recyclerview.widget.DefaultItemAnimator;
import androidx.recyclerview.widget.RecyclerView;
import androidx.recyclerview.widget.StaggeredGridLayoutManager;

import android.content.Context;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ArrayAdapter;
import android.widget.ImageView;
```

```java
import android.widget.SearchView;
import android.widget.TextView;

import java.util.ArrayList;
import java.util.List;
import java.util.Locale;

public class HomeActivity extends AppCompatActivity {
    RecyclerView recyclerView;
    SearchView searchView;
    String[] productsNames = new String[]{"Apple", "kiwi", "watermelon",
"Orange"};
    int[] imgIndex = {
            R.drawable.apple,
            R.drawable.kiwi,
            R.drawable.watermelon,
            R.drawable.orange
    };
String[] namesArray = {"Broccoli","Beet","Bell Pepper","Cauliflower","Tomato"};
int[] productsImgsArray = { R.drawable.broccoli, R.drawable.beet,
R.drawable.bellpepper, R.drawable.cauliflower,
        R.drawable.tomato, };
String[] unitsArray = {"500 GM","250 GM","500 GM", "1KG","1 KG"};
String[] priceArray = {"35", "50", "70", "65","45"};



    private List<ProductModel> productModels = new ArrayList<>();
    private ProductsAdapter adapter;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_home);
        getSupportActionBar().setTitle("Home");
        searchView  =  findViewById(R.id.search_bar);

        recyclerView = findViewById(R.id.products_recycler_view);
        recyclerView.setLayoutManager(new StaggeredGridLayoutManager(2,
StaggeredGridLayoutManager.VERTICAL
        ));
        recyclerView.setItemAnimator(new DefaultItemAnimator());

        int c = -1;
        for (String str : productsNames) {
            c++;
            productModels.add(new ProductModel(str, imgIndex[c]));
        }

        adapter = new ProductsAdapter(this,productModels);
        recyclerView.setAdapter(adapter);

        searchView = findViewById(R.id.search_bar);
        searchView.setOnQueryTextListener(new SearchView.OnQueryTextListener() {
            @Override
            public boolean onQueryTextSubmit(String s) {
                return false;
            }
```

```java
            @Override
            public boolean onQueryTextChange(String s) {
                adapter.filter(s);
                return false;
            }
        });
    }

    private static class ProductsAdapter extends
RecyclerView.Adapter<ProductsAdapter.Myholder> {
        Context context;
        List<ProductModel> productModelList;
        List<ProductModel> searchList = new ArrayList<>();

        public ProductsAdapter(Context context, List<ProductModel>
productModelList) {
            this.context = context;
            this.productModelList = productModelList;
            searchList.addAll(productModelList);
        }

        public void filter(String newText){
            if(newText.length() == 0){
                productModelList = searchList;
            }

            List<ProductModel> tempList = new ArrayList<>();
            for(ProductModel model : searchList){

if(model.getName().toLowerCase().contains(newText.toLowerCase().trim()))
                    tempList.add(model);
            }

            if(tempList.size() > 0)
                productModelList = tempList;

            notifyDataSetChanged();
        }

        @NonNull
        @Override
        public ProductsAdapter.Myholder onCreateViewHolder(@NonNull ViewGroup
parent, int viewType) {
            return new
Myholder(LayoutInflater.from(context).inflate(R.layout.activity_product__card,pare
nt,false));
        }

        @Override
        public void onBindViewHolder(@NonNull ProductsAdapter.Myholder holder, int
position) {

holder.productImage.setImageDrawable(ContextCompat.getDrawable(context,productMode
lList.get(position).getImage()));
            holder.productText.setText(productModelList.get(position).getName());
        }

        @Override
        public int getItemCount() {
```

```java
            return productModelList.size();
        }

        public static class Myholder extends RecyclerView.ViewHolder {
            TextView productText;
            ImageView productImage;

            public Myholder(@NonNull View itemView) {
                super(itemView);

                productText = itemView.findViewById(R.id.productText);
                productImage = itemView.findViewById(R.id.productImage);
            }
        }
    }
}
```

Toolbar.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.appcompat.widget.Toolbar
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/toolbar"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:background="@color/purple_700">

    <RelativeLayout android:layout_width="match_parent"
        android:layout_height="wrap_content">
        <TextView android:id="@+id/toolbar_title"
android:layout_width="wrap_content" android:layout_height="wrap_content"
            android:text="Home"
            android:layout_alignParentStart="true"
            android:textSize="20dp"
            android:textColor="@color/white"
            android:layout_alignParentLeft="true" />
        <RelativeLayout
            android:id="@+id/product_cart_iconbox"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:clickable="true"
            android:focusable="true"
            android:layout_toLeftOf="@id/more_iconbox">
            <ImageView
                android:id="@+id/product_cart"
                android:layout_width="25dp"
                android:layout_height="25dp"
                android:cropToPadding="true"
                android:scaleType="centerCrop"
                android:layout_alignParentTop="true"
                app:srcCompat="@drawable/ic_baseline_shopping_cart_24"
```

```
            tools:ignore="VectorDrawableCompat" />
            </RelativeLayout>
        <RelativeLayout
            android:id="@+id/more_iconbox"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:clickable="true"
            android:focusable="true"
            android:layout_marginStart="10dp"
            android:layout_alignParentRight="true"
            tools:ignore="RtlCompat">
            <ImageView
                android:id="@+id/more"
                android:layout_width="25dp"
                android:layout_height="25dp"
                android:scaleType="centerCrop"
                app:srcCompat="@drawable/ic_baseline_more_vert_24"
                tools:ignore="VectorDrawableCompat" />
        </RelativeLayout>
</RelativeLayout>
</androidx.appcompat.widget.Toolbar>
```

Menu_bar.xml

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
    <item
        android:id="@+id/order"
        android:title="Order"
        />
    <item
        android:id="@+id/profile"
        android:title="Profile"

        />
    <item
        android:id="@+id/logout"
        android:title="Logout"

        />
</menu>
```

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.sneha_task1">

    <application
        android:allowBackup="true"
        android:icon="@drawable/ic_launcher_foreground"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
```

```xml
        android:supportsRtl="true"
        android:theme="@style/Theme.Sneha_task1">
        <activity android:name=".ProductList"></activity>
        <activity android:name=".Product_Card" />
        <activity android:name=".HomeActivity" />
        <activity android:name=".SignupActivity" />
        <activity android:name=".LoginActivity" />
        <activity android:name=".splashmain">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>
```