DAY-9

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activity_home.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   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"</pre>
        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</pre>
        android:id="@+id/products recycler view"
        android:layout_below="@id/textView"
        android:layout_width="match_parent"
        android:layout_height="match_parent"/>
</RelativeLayout>
```

HomeActivity.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;
```

```
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
    };
    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) {
            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() {
            public boolean onQueryTextSubmit(String s) {
                return false;
            }
            @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.qetDrawable(context,productMode
lList.get(position).getImage()));
            holder.productText.setText(productModelList.get(position).getName());
        }
        @Override
        public int getItemCount() {
            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 version="1.0" encoding="utf-8"?>
<androidx.appcompat.widget.Toolbar</pre>
    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"</pre>
        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</pre>
                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"
```

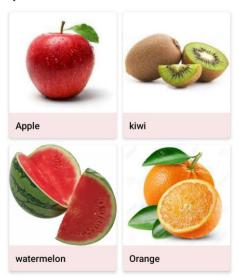
Menu bar.xml

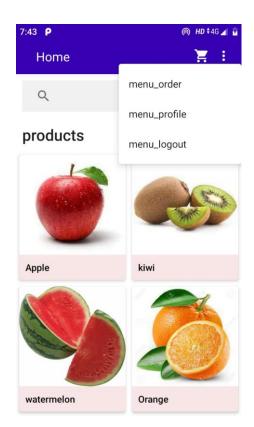
AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   package="com.example.sneha_task1">
    <application</pre>
        android:allowBackup="true"
        android:icon="@drawable/ic launcher foreground"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        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">
```



products





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pg. 8	

