

Summer Internship : Android & Flutter

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Task - 11

activity_home.xml :-

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
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="@string/search"
        android:drawablePadding="10dp"
        android:background="@drawable/input_box"
        android:layout_marginVertical="10dp"
        android:layout_marginHorizontal="10dp"
        android:paddingHorizontal="10dp"/>

    <TextView
        android:id="@+id/product_title"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="@string/fruits"
        android:textSize="25dp"
        style="@style/TextAppearance.AppCompat.Body2"
        android:padding="10dp"/>

    <android.support.v7.widget.RecyclerView
        android:id="@+id/products_recycler_products_view"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"/>

    <TextView
        android:id="@+id/textView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="@string/products"
        android:textSize="25dp"
        style="@style/TextAppearance.AppCompat.Body2"
        android:padding="10dp"/>

    <android.support.v7.widget.RecyclerView
```

```
        android:id="@+id/products_recycler_view"
        android:layout_width="match_parent"
        android:layout_height="match_parent"/>
</LinearLayout>
```

HomeActivity.java :-

```
package com.example.sneha_task1;

import android.annotation.SuppressLint;
import android.content.Context;
import android.content.Intent;
import android.os.Build;
import android.support.annotation.NonNull;
import android.support.annotation.RequiresApi;
import android.support.v7.app.ActionBar;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.support.v7.widget.DefaultItemAnimator;
import android.support.v7.widget.RecyclerView;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.widget.ArrayAdapter;
import android.widget.PopupMenu;
import android.widget.SearchView;
import android.support.v7.widget.StaggeredGridLayoutManager;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.Toast;

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

public class HomeActivity extends AppCompatActivity {

    RecyclerView recyclerView;
    SearchView searchView;
    String[] productsNames = {"Apple", "Orange", "Kiwi",
    "Watermelon"};
    int[] imgIndex = {
        R.drawable.apple,
        R.drawable.orange,
        R.drawable.kiwi,
        R.drawable.watermelon,
```

```
};

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"};

ProductsAdapter productsAdapter;
ProductDetailsAdapter productDetailsAdapter;

ArrayList<ProductList> productList;
ArrayList<String> productNameArrayList;

ArrayList<ProductsDetailsList> detailsListsArrayList;
ArrayList<String> pdnArrayList;

ImageView iconMore, iconCart, iconMessage;
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_home);

    getSupportActionBar().setDisplayOptions(ActionBar.DISPLAY_SHOW_CUSTO  
M);

    getSupportActionBar().setCustomView(R.layout.custom_toolbar_home);

    searchView = findViewById(R.id.search_bar);
    iconMore = (ImageView) findViewById(R.id.more);
    iconCart = (ImageView) findViewById(R.id.product_cart);
    iconMessage = (ImageView) findViewById(R.id.product_message);

    iconMore.setOnClickListener(new View.OnClickListener() {
        @RequiresApi(api = Build.VERSION_CODES.Q)
        @Override
        public void onClick(View v) {
            PopupMenu popupMenu = new  
PopupMenu(HomeActivity.this, iconMore);
```

```
popupMenu.getMenuInflater().inflate(R.menu.popup_menu_items,
popupMenu.getMenu());
popupMenu.setOnMenuItemClickListener(new
PopupMenu.OnMenuItemClickListener() {
    @Override
    public boolean onMenuItemClick(MenuItem item) {
        Toast.makeText(HomeActivity.this, "You Have
Clicked \""+item.getTitle()+"\", Toast.LENGTH_LONG).show();
        return true;
    }
});
popupMenu.setForceShowIcon(true);
popupMenu.show();
});
iconMessage.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent iMessage = new Intent(HomeActivity.this,
MessageActivity.class);
        HomeActivity.this.startActivity(iMessage);
    }
});
searchView.setOnQueryTextListener(new
SearchView.OnQueryTextListener() {
    @Override
    public boolean onQueryTextSubmit(String s) {
        return false;
    }

    @Override
    public boolean onQueryTextChange(String s) {
        if(s.trim().equalsIgnoreCase("")){
            productsAdapter.filterSearch("");
        }else{
            productsAdapter.filterSearch(s);
        }
        return false;
    }
});

recyclerView =
(RecyclerView)findViewById(R.id.products_recycler_products_view);
recyclerView.setLayoutManager(new
StaggeredGridLayoutManager(1, StaggeredGridLayoutManager.HORIZONTAL
));
recyclerView.setItemAnimator(new DefaultItemAnimator());

detailsListsArrayList = new ArrayList<>();
```

```
pdnArrayList = new ArrayList<>();

for(int i=0; i<productsImgsArray.length; i++){
    ProductsDetailsList productsDetailsList = new
ProductsDetailsList();
    productsDetailsList.setName(namesArray[i]);
    productsDetailsList.setUnit(unitsArray[i]);
    productsDetailsList.setPrice(priceArray[i]);
    productsDetailsList.setImage(productsImgsArray[i]);
    detailsListsArrayList.add(productsDetailsList);
    pdnArrayList.add(namesArray[i]);
}
productDetailsAdapter = new
ProductDetailsAdapter(HomeActivity.this, detailsListsArrayList);
//      ProductsAdapter productsAdapter = new
ProductsAdapter(HomeActivity.this,productNameArrayList, imgIndex);
recyclerView.setAdapter(productDetailsAdapter);

//Fruit card view
recyclerView =
(RecyclerView)findViewById(R.id.products_recycler_view);
recyclerView.setLayoutManager(new
StaggeredGridLayoutManager(2, StaggeredGridLayoutManager.VERTICAL
));
recyclerView.setItemAnimator(new DefaultItemAnimator());

productLists = new ArrayList<>();
productNameArrayList = new ArrayList<>();

for(int i=0; i<productsNames.length; i++){
    ProductList productList = new ProductList();
    productList.setProductName(productsNames[i]);
    productList.setProductIndexImage(imgIndex[i]);
    productLists.add(productList);
    productNameArrayList.add(productsNames[i]);
}
productsAdapter = new ProductsAdapter(HomeActivity.this,
productLists);
recyclerView.setAdapter(productsAdapter);
}
private class ProductsAdapter extends
RecyclerView.Adapter<ProductsAdapter.Myholder>{
    Context context;
    ArrayList<ProductList> productLists;
    ArrayList<ProductList> searchList;
```

```
public ProductsAdapter(HomeActivity homeActivity,
ArrayList<ProductList> productList){
    this.context = homeActivity;
    this.productLists = productList;
    searchList = new ArrayList<>();
    searchList.addAll(productLists);
}

@NonNull
@Override
public Myholder onCreateViewHolder(@NonNull ViewGroup
viewGroup, int i) {
    View view = LayoutInflater.from(viewGroup.getContext())
        .inflate(R.layout.product_card,viewGroup,
false);

    return new Myholder(view);
}

public void filterSearch(String search) {
    search = search.toLowerCase(Locale.getDefault());
    productList.clear();
    if(search.length() == 0){
        productList.addAll(searchList);
    }else{
        for(ProductList product : searchList){
            if(product.getProductName().toLowerCase(Locale.getDefault()).contains(
search)){
                productList.add(product);
            }
        }
        notifyDataSetChanged();
    }
}

public class Myholder extends RecyclerView.ViewHolder{
    ImageView imageView;
    TextView name;
    public Myholder(@NonNull View itemView){
        super(itemView);
        name= itemView.findViewById(R.id.product_text);
        imageView =
itemView.findViewById(R.id.products_card_img);
    }
}

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

```
holder.name.setText(productLists.get(position).getProductName());
```

```
holder.imageView.setImageResource(productLists.get(position).productIndexImage);
```

```
    }  
    @Override  
    public int getItemCount() {  
        return productLists.size();  
    }  
}
```

```
private class ProductDetailsAdapter extends
```

```
    RecyclerView.Adapter<ProductDetailsAdapter.Myholder>{  
        Context context;  
        ArrayList<ProductsDetailsList> productsDetailsLists;  
        ArrayList<ProductsDetailsList> searchList;
```

```
        public ProductDetailsAdapter(HomeActivity homeActivity,  
            ArrayList<ProductsDetailsList> productDetailsList){  
            this.context = homeActivity;  
            this.productsDetailsLists = productDetailsList;  
            this.searchList = new ArrayList<>();  
            searchList.addAll(productDetailsList);  
        }
```

```
        public void filterSearch(String search) {  
            search = search.toLowerCase(Locale.getDefault());  
            productsDetailsLists.clear();  
            if(search.length() == 0){  
                productsDetailsLists.addAll(searchList);  
            }else{  
                for(ProductsDetailsList details : searchList){
```

```
                    if(details.getName().toLowerCase(Locale.getDefault()).contains(search)){
```

```
                        productsDetailsLists.add(details);
```

```
                    }
```

```
                }
```

```
            }
```

```
            notifyDataSetChanged();
```

```
        }
```

```
        @Override
```

```
        public Myholder onCreateViewHolder(@NonNull ViewGroup  
viewGroup, int i) {
```

```
            View view = LayoutInflater.from(viewGroup.getContext())
```

```
            .inflate(R.layout.products_card_details,viewGroup, false);
```

```
            return new Myholder(view);
```

```
        }
```



```
public class Myholder extends RecyclerView.ViewHolder{
    ImageView image;
    TextView name, price, unit;
    public Myholder(@NonNull View itemView){
        super(itemView);
        name =
itemView.findViewById(R.id.product_card_details_text);
        image =
itemView.findViewById(R.id.product_card_details_img);
        price =
itemView.findViewById(R.id.product_card_details_price);
    }
}

@Override
public void onBindViewHolder(@NonNull
HomeActivity.ProductDetailsAdapter.Myholder myholder,
@SuppressLint("RecyclerView") int i) {

myholder.image.setImageResource(productsDetailsLists.get(i).getImage
());

myholder.name.setText(productsDetailsLists.get(i).getName());

myholder.price.setText(getResources().getString(R.string.rupee)+
        productsDetailsLists.get(i).getPrice()+" | "+
        productsDetailsLists.get(i).getUnit());

myholder.itemView.setOnClickListener(new
View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent iProductDetails = new Intent(context,
ProductDetailsActivity.class);
        Bundle bundle = new Bundle();

bundle.putString("productName",productsDetailsLists.get(i).getName()
);

bundle.putString("productPrice",getResources().getString(R.string.ru
pee)+
        productsDetailsLists.get(i).getPrice()+"
| "+
        productsDetailsLists.get(i).getUnit());

bundle.putInt("productImage",productsDetailsLists.get(i).getImage())
;
        iProductDetails.putExtras(bundle);
```

```

HomeActivity.this.startActivity(iProductDetails);
        }
    });

}

@Override
public int getItemCount() {
    return productsDetailsLists.size();
}
}
}

```

activity_message.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"
    tools:context=".MessageActivity">

    <android.support.design.widget.TabLayout
        android:id="@+id/message_tab"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:background="@color/purple_700"
        app:tabIndicatorColor="@color/white"
        app:tabTextColor="#F0F0F0"
        app:tabSelectedTextColor="@color/white"

        app:tabIndicatorAnimationDuration="@android:integer/config_mediumAnimTime"/>

    <android.support.v4.view.ViewPager
        android:id="@+id/view_pages"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@id/message_tab"/>
</RelativeLayout>

```

MessageActivity.java :-

```

package com.example.yashnayi;
import android.support.annotation.Nullable;
import android.support.design.widget.TabLayout;

```

```
import android.support.v4.app.Fragment;
import android.support.v4.app.FragmentActivity;
import android.support.v4.app.FragmentManager;
import android.support.v4.app.FragmentPagerAdapter;
import android.support.v4.view.ViewPager;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;

public class MessageActivity extends AppCompatActivity {

    TabLayout tabLayout;
    ViewPager viewPager;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_message);
        getSupportActionBar().hide();

        tabLayout = findViewById(R.id.message_tab);
        viewPager = findViewById(R.id.view_pages);

        tabLayout.post(new Runnable() {
            @Override
            public void run() {
                tabLayout.setupWithViewPager(viewPager);
            }
        });
        viewPager.setAdapter(new
MessageAdapter(getSupportFragmentManager()));
    }
    public class MessageAdapter extends FragmentPagerAdapter {
        public MessageAdapter(FragmentManager fragmentManager){
            super(fragmentManager);
        }

        @Nullable
        @Override
        public CharSequence getPageTitle(int position) {
            switch (position){
                case 0: return "Chat";
                case 1: return "Status";
                case 2: return "Call";
            }
            return super.getPageTitle(position);
        }

        @Override
        public Fragment getItem(int i) {
            switch (i){
```

```

        case 0: return new ChatFragment();
        case 1: return new StatusFragment();
        case 2: return new CallFragment();
    }
    return null;
}

@Override
public int getCount() {
    return 3;
}
}
}

```

Chat_fragment.xml :-

```

<?xml version="1.0" encoding="utf-8"?>
<FrameLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".ChatFragment">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:text="Chat" />

</FrameLayout>

```

Status_fragment.xml :-

```

<?xml version="1.0" encoding="utf-8"?>
<FrameLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".StatusFragment">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:text="Hello" />

</FrameLayout>

```

Call_fragment.xml :-

```
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".CallFragment">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:text="Hello" />

</FrameLayout>
```

ChatFragment.java :-

```
package com.example.yashnayi;

import android.arch.lifecycle.ViewModelProvider;
import android.os.Bundle;
import android.support.annotation.NonNull;
import android.support.annotation.Nullable;
import android.support.v4.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;

public class ChatFragment extends Fragment {

    private ChatViewModel mViewModel;

    public static ChatFragment newInstance() {
        return new ChatFragment();
    }

    @Override
    public View onCreateView(@NonNull LayoutInflater inflater,
        @Nullable ViewGroup container,
        @Nullable Bundle savedInstanceState) {
        return inflater.inflate(R.layout.chat_fragment, container,
            false);
    }

    @Override
    public void onActivityCreated(@Nullable Bundle
```

```
savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    mViewModel = new ViewModelProvider(this, new  
ViewModelProvider.NewInstanceFactory()).get(ChatViewModel.class);  
    // TODO: Use the ViewModel  
}  
  
}
```

StatusFragment.java :-

```
package com.example.yashnayi;  
  
import android.arch.lifecycle.ViewModelProvider;  
import android.os.Bundle;  
import android.support.annotation.NonNull;  
import android.support.annotation.Nullable;  
import android.support.v4.app.Fragment;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
  
public class StatusFragment extends Fragment {  
  
    private StatusViewModel mViewModel;  
  
    public static StatusFragment newInstance() {  
        return new StatusFragment();  
    }  
  
    @Override  
    public View onCreateView(@NonNull LayoutInflater inflater,  
@Nullable ViewGroup container,  
@Nullable Bundle savedInstanceState) {  
        return inflater.inflate(R.layout.status_fragment, container,  
false);  
    }  
  
    @Override  
    public void onCreateView(@Nullable Bundle  
savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        mViewModel = new ViewModelProvider(this, new  
ViewModelProvider.NewInstanceFactory()).get(StatusViewModel.class);  
        // TODO: Use the ViewModel  
    }  
  
}
```

CallFragment.java :-

```
package com.example.yashnayi;

import android.arch.lifecycle.ViewModelProvider;
import android.os.Bundle;
import android.support.annotation.NonNull;
import android.support.annotation.Nullable;
import android.support.v4.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;

public class CallFragment extends Fragment {

    private CallViewModel mViewModel;

    public static CallFragment newInstance(){
        return new CallFragment();
    }

    @Override
    public View onCreateView(@NonNull LayoutInflater inflater,
        @Nullable ViewGroup container,
        @Nullable Bundle savedInstanceState) {
        return inflater.inflate(R.layout.call_fragment, container,
false);
    }

    @Override
    public void onActivityCreated(@Nullable Bundle
savedInstanceState) {
        super.onActivityCreated(savedInstanceState);
        mViewModel = new ViewModelProvider(this, new
ViewModelProvider.NewInstanceFactory()).get(CallViewModel.class);
        // TODO: Use the ViewModel
    }
}
```

AndroidManifest.xml :-

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

    <application
```

```
    android:allowBackup="true"
    android:icon="@mipmap/ic_launcher"
    android:label="@string/app_name"
    android:roundIcon="@mipmap/ic_launcher_round"
    android:supportRtl="true"
    android:theme="@style/Theme.YashNayi">
    <activity android:name=".MessageActivity"></activity>
    <activity android:name=".ProductDetailsActivity" />
    <activity android:name=".SignUpActivity" />
    <activity android:name=".HomeActivity" />
    <activity android:name=".LoginActivity" />
    <activity android:name=".MainActivity" />
    <activity android:name=".SplashActivity">
        <intent-filter>
            <action android:name="android.intent.action.MAIN" />

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

</manifest>
```


Output :-

