

Roll no: B30

FavouriteActivity.java

```
package com.example.foodzilla;
```

```
import androidx.annotation.NonNull;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import androidx.recyclerview.widget.RecyclerView;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

```
import android.widget.Toast;
```

```
import com.android.volley.Request;
```

```
import com.android.volley.RequestQueue;
```

```
import com.android.volley.toolbox.JsonArrayRequest;
```

```
import com.android.volley.toolbox.Volley;
```

```
import org.json.JSONException;
```

```
import org.json.JSONObject;
```

```
import java.util.ArrayList;
```

```
import java.util.HashSet;
```

```
import java.util.concurrent.atomic.AtomicInteger;
```

```
import static android.view.View.INVISIBLE;
```

```
import static android.view.View.VISIBLE;
```

```
public class Favourite extends AppCompatActivity implements View.OnClickListener {
```

```
private RecyclerView recyclerfav;  
private AtomicInteger id = new AtomicInteger();  
private Button timebtn;  
private Button ratbtn;  
private Button calbtn;  
private Button cuisbtn;  
private CardAdapter myCardAdapter = new CardAdapter(this);
```

@Override

```
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.activity_favourite);  
    timebtn = findViewById(R.id.time_btn);  
    ratbtn = findViewById(R.id.rat_btn);  
    calbtn = findViewById(R.id.cal_btn);  
    cuisbtn = findViewById(R.id.cui_btn);  
    timebtn.setOnClickListener(this);  
    ratbtn.setOnClickListener(this);  
    calbtn.setOnClickListener(this);  
    cuisbtn.setOnClickListener(this);  
    recyclerfav = findViewById(R.id.recyclerFav);  
    recyclerfav.setAdapter(myCardAdapter);  
}
```

@Override

```
public void onClick(View v) {  
    String param;  
    switch (v.getId()){  
        case R.id.time_btn:
```

```

        param = "added";
    case R.id.rat_btn:
        param = "ratings";

    case R.id.cal_btn:
        param = "nutrition";

    case R.id.cui_btn:
        param = "cuisine";

}

```

```
String url = "https://foodzilla-salmanotkhan.vercel.app/nikhil?order=" + param;
```

```
RequestQueue requestQueue = Volley.newRequestQueue(this);
```

```

JSONArrayRequest jsonArrayRequest = new JSONArrayRequest(Request.Method.GET, url, null,
response -> {
    ArrayList<Card> cardList = new ArrayList<Card>();
    for (int i = 0; i < response.length(); i++){
        try {
            JSONObject obj = (JSONObject) response.get(i);

            Card card = new Card((Integer) obj.get("id"),obj.getString("name"),
obj.getString("image"),obj.getInt("nutrition"),obj.getString("cuisine"),obj.getInt("ratings"),obj.getStri
ng("added"));

            cardList.add(card);
        } catch (JSONException e) {
            e.printStackTrace();
        }
    }
}
}

```

```

        id.addAndGet(10);

        myCardAdapter.setCards(cardList);
    }, error -> {
        Toast.makeText(this, error.getMessage(), Toast.LENGTH_LONG).show();
    });
    requestQueue.add(jsonArrayRequest);

}
}

```

cart.java

```

package com.example.foodzilla;

```

```

public class Card {
    private int id;
    private String name;
    private String image;
    private int calories;
    private String cuisine;
    private int rating;
    private String time;

    public Card(int id, String name, String image, int calories, String cuisine, int rating, String time) {
        this.id = id;
        this.name = name;
        this.image = image;
        this.calories = calories;
        this.cuisine = cuisine;
    }
}

```

```
    this.rating = rating;
    this.time = time;
}
```

```
public int getId() {
    return id;
}
```

```
public void setId(int id) {
    this.id = id;
}
```

```
public String getName() {
    return name;
}
```

```
public void setName(String name) {
    this.name = name;
}
```

```
public String getImage() {
    return image;
}
```

```
public void setImage(String image) {
    this.image = image;
}
```

```
public int getCalories() {  
    return calories;  
}
```

```
public void setCalories(int calories) {  
    this.calories = calories;  
}
```

```
public String getCuisine() {  
    return cuisine;  
}
```

```
public void setCuisine(String cuisine) {  
    this.cuisine = cuisine;  
}
```

```
public int getRating() {  
    return rating;  
}
```

```
public void setRating(int rating) {  
    this.rating = rating;  
}
```

```
public String getTime() {  
    return time;  
}
```

```
public void setTime(String time) {  
    this.time = time;  
}
```

```
}
```

cardadapter.java

```
package com.example.foodzilla;
```

```
import android.app.Activity;
```

```
import android.app.ActivityOptions;
```

```
import android.content.Context;
```

```
import android.content.Intent;
```

```
import android.graphics.Bitmap;
```

```
import android.os.Parcelable;
```

```
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 androidx.annotation.NonNull;
```

```
import androidx.recyclerview.widget.RecyclerView;
```

```
import com.bumptech.glide.Glide;
```

```
import java.util.ArrayList;
```

```
import java.util.BitSet;
```

```

public class CardAdapter extends RecyclerView.Adapter<CardAdapter.MyCardViewHolder>
implements View.OnClickListener {

    private ArrayList<Card> cardList = new ArrayList<Card>();

    private Context context;

    public CardAdapter(Context context) {

        this.context = context;
    }

    @NonNull

    @Override

    public MyCardViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {

        View view = LayoutInflater.from(parent.getContext()).inflate(R.layout.recipe_card, parent,
false);

        return new MyCardViewHolder(view);

    }

    @Override

    public void onBindViewHolder(@NonNull MyCardViewHolder holder, int position) {

        holder.textName.setText(cardList.get(position).getName() + "");

//    holder.textIsVeg.setText(isVeg);

        holder.timestamp.setText(cardList.get(position).getTime() + "");

        holder.cuisine.setText(cardList.get(position).getCuisine() + "");

        holder.calories.setText(cardList.get(position).getCalories() + "");

        holder.rating.setText(cardList.get(position).getRating() + "");

        holder.textId.setText(cardList.get(position).getId() + "");

        Glide.with(context).load(cardList.get(position).getImage()).centerCrop().into(holder.imageView);

    }

```


@Override

```
public int getItemCount() {  
    return cardList.size();  
}
```

```
public void setCards(ArrayList<Card> cardList) {  
    this.cardList = cardList;  
    notifyDataSetChanged();  
}
```

```
public class MyCardViewHolder extends RecyclerView.ViewHolder{  
    public final TextView textName;  
    public final TextView textId;  
    public final TextView cuisine;  
    public final TextView timestamp;  
    public final TextView calories;  
    public final TextView rating;
```

```
    public final ImageView imageView;
```

```
    public MyCardViewHolder(@NonNull View itemView) {  
        super(itemView);  
        imageView = itemView.findViewById(R.id.imageRecipeThumb);  
        textId = itemView.findViewById(R.id.textId);  
        textName = itemView.findViewById(R.id.textRecipeTitle);  
        cuisine = itemView.findViewById(R.id.textIsVeg);  
        timestamp = itemView.findViewById(R.id.timestamp);  
        calories = itemView.findViewById(R.id.cal);
```

```

        rating = itemView.findViewById(R.id.Rating);

    }

}

}

```

activity_favourite.xml

```

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout
    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=".Favourite">

    <LinearLayout

        android:id="@+id/linearLayout"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginStart="10dp"
        android:layout_marginEnd="10dp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent">

        <Button

            android:id="@+id/time_btn"

```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Timestamp"
/>
```

```
<Button
    android:id="@+id/rat_btn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="rating"
/>
```

```
<Button
    android:id="@+id/cal_btn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="calories"

/>
```

```
<Button
    android:id="@+id/cui_btn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="cuisine"
/>
```

```
</LinearLayout>
```

```
<androidx.recyclerview.widget.RecyclerView
    android:id="@+id/recyclerFav"
    android:layout_width="match_parent"
```

```
android:layout_height="0dp"
app:layoutManager="androidx.recyclerview.widget.LinearLayoutManager"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/linearLayout"
tools:ignore="MissingConstraints"
tools:listitem="@layout/recipe_card" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

Output:

TIMESTAMP

RATING

CALORIES

CU
ISI
NE

Chilli Cheese Roti 762

2021-06-08T19:10:25

Indian

1



Coconut Chutney 1087

2021-06-08T19:10:25

Indian

1



Coconut Cream Spinach 510

2021-06-08T19:10:25

Fusion

1

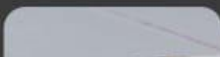


Caramelized Pineapple Smoothie 1344

2021-06-08T19:10:25

British

1



Poha Dhokla

721

TIMESTAMP

RATING

CALORIES

CU
ISI
NE

Banana Fritters a La Sri Lanka

2021-06-06T19:10:25

Sri Lankan

4



Coconut Sambol

321

2021-06-06T19:10:25

Sri Lankan

4



Caramelized Pineapple Sauce

2021-06-08T19:10:25

British

1



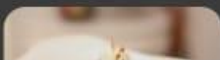
Chilli Cheese Roti

762

2021-06-08T19:10:25

Indian

1



Coconut Cream Spinach

510

TIMESTAMP

RATING

CALORIES

CU
ISI
NE

Caramelized Pineapple Smoothie 1044

2021-06-08T19:10:25

British

1



Coconut Cream Spinach 510

2021-06-08T19:10:25

Fusion

1



Poha Dhokla 721

2021-06-09T05:56:59.966909

Gujarati

3

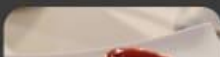


Dahi Papdi Chaat 1082

2021-06-09T05:56:59.966909

Indian

5



Chilli Cheese Roti 762

TIMESTAMP

RATING

CALORIES

CU
ISI
NE

Coconut Sambol 321

2021-06-06T19:10:25

Sri Lankan 4



Coconut Cream Spinach 510

2021-06-08T19:10:25

Fusion 1



Stuffed Karela 613

2021-06-09T05:56:59.966909

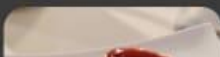
Uttar Pradesh 3



Poha Dhokla 721

2021-06-09T05:56:59.966909

Gujarati 3



Chilli Cheese Roti 762