Example - Zoo App - with Intent

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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=".MainActivity">
        android:id="@+id/titleview"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="35dp"
        android:text="Welcome to the Zoo"
        android:textColor="#3F51B5"
        android:textSize="36sp"
        android:textStyle="bold"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
    <ListView
        android:id="@+id/zoolist"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginTop="100dp"
        app:layout_constraintTop_toTopOf="parent"
        tools:layout_editor_absoluteX="76dp" />
</androidx.constraintlayout.widget.ConstraintLayout>
                                      mylist.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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="wrap_content"
    android:layout_height="wrap_content">
    <ImageView</pre>
        android:id="@+id/icons"
        android:layout_width="100dp"
        android:layout_height="100dp"
        android:padding="5dp"
        app:srcCompat="@drawable/bear"
        tools:srcCompat="@tools:sample/avatars[2]" />
    <LinearLayout</pre>
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center_vertical"
        android:orientation="vertical">
        <TextView
            android:id="@+id/icontitle"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="TextView"
            android:textSize="24sp"
            android:textStyle="bold" />
        <TextView
            android:id="@+id/iconsubtitle"
            android:layout width="wrap content"
            android:layout_height="wrap_content"
            android:text="TextView"
            android:textSize="18sp"
            android:textStyle="italic" />
```

```
</LinearLayout>
</LinearLayout>
```

MyListAdapter.java

```
package com.example.zoowithintent;
import androidx.appcompat.app.AppCompatActivity;
import android.app.Activity;
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.TextView;
public class MyListAdapter extends ArrayAdapter<String> {
    private final Activity context;
private final String[] icontitle;
    private final String[] iconsubtitle;
    private final Integer[] icons;
    public MyListAdapter(Activity context, String[] icontitle, String[] iconsubtitle,
Integer[] icons){
        super(context,R.layout.myList,icontitle);
        this.context = context;
        this.icontitle = icontitle;
        this.iconsubtitle = iconsubtitle;
        this.icons = icons;
    public View getView(int position, View view, ViewGroup parent) {
        LayoutInflater inflator = context.getLayoutInflater();
        View rowView = inflator.inflate(R.layout.mylist,null, true);
        TextView ititle = rowView.findViewById(R.id.icontitle);
        TextView isubtitle = rowView.findViewById(R.id.iconsubtitle);
        ImageView imgid = rowView.findViewById(R.id.icons);
        ititle.setText(icontitle[position]);
        isubtitle.setText(iconsubtitle[position]);
        imgid.setImageResource(icons[position]);
        return rowView;
    };
}
                                   MainActivity.java
package com.example.zoowithintent;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ListView;
import android.widget.Toast;
import com.example.zoowithintent.MainActivity2;
import com.example.zoowithintent.MyListAdapter;
import com.example.zoowithintent.R;
public class MainActivity extends AppCompatActivity {
    ListView list;
    String[] icontitle = {
             "Lion", "Tiger", "Bear", "Peacock", "Elephant"
    };
```

```
String[] iconsubtitle = {
             "Carnivorous", "Carnivorous", "Carnivorous", "Herbivorous", "Herbivorous"
    Integer[] icons = {
            R.drawable.lion, R.drawable.tiger, R.drawable.bear, R.drawable.peacock,
R.drawable.elephant
    };
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        MyListAdapter adapter = new MyListAdapter(this,icontitle,iconsubtitle,icons);
        list = findViewById(R.id.zoolist);
        list.setAdapter(adapter);
        list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            public void onItemClick(AdapterView<?> parent, View view, int position,
long id) {
                 Intent i = new Intent(getApplicationContext(), MainActivity2.class);
                 if (position == 0){
                     i.putExtra("name",icontitle[0]);
                     i.putExtra("anitype",iconsubtitle[0]);
                     i.putExtra("aniid",icons[0]);
                 else if (position == 1){
                     i.putExtra("name",icontitle[1]);
                     i.putExtra("anitype",iconsubtitle[1]);
i.putExtra("aniid",icons[1]);
                 else if (position == 2){
                     i.putExtra("name",icontitle[2]);
i.putExtra("anitype",iconsubtitle[2]);
                     i.putExtra("aniid",icons[2]);
                 else if (position == 3){
                     i.putExtra("name",icontitle[3]);
i.putExtra("anitype",iconsubtitle[3]);
                     i.putExtra("aniid",icons[3]);
                 else if (position == 4){
                     i.putExtra("name",icontitle[4]);
                     i.putExtra("anitype",iconsubtitle[4]);
                     i.putExtra("aniid",icons[4]);
                 startActivity(i);
            }
       });
    }
}
                                    activity_main2.xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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=".MainActivity2">
    <ImageView</pre>
        android:id="@+id/anipic"
        android:layout_width="300dp"
        android:layout_height="300dp"
        android:layout_marginStart="55dp"
        android:layout_marginLeft="55dp"
        android:layout_marginTop="37dp"
        android:layout_marginEnd="56dp"
        android:layout_marginRight="56dp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
```

```
app:layout_constraintTop_toTopOf="parent"
        tools:srcCompat="@tools:sample/avatars" />
    <TextView
        android:id="@+id/aniname"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:layout_marginTop="50dp"
        android:text="TextView"
        android:textSize="36sp"
        android:textStyle="bold"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/anipic" />
        android:id="@+id/anitype"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="50dp"
        android:text="TextView"
        android:textSize="24sp"
        android:textStyle="italic"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/aniname" />
    <Button
        android:id="@+id/backbutton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Go back"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/anitype" />
</androidx.constraintlayout.widget.ConstraintLayout>
                                  MainActivity2.java
package com.example.zoowithintent;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.TextView;
public class MainActivity2 extends AppCompatActivity {
    TextView aniname, anitype;
    ImageView anipic;
    Button backbutton;
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        aniname = findViewById(R.id.aniname);
        anitype = findViewById(R.id.anitype);
        anipic = findViewById(R.id.anipic);
        backbutton = findViewById(R.id.backbutton);
        Intent i = getIntent();
        String nm = i.getStringExtra("name");
        String ty = i.getStringExtra("anitype");
Integer picid = i.getIntExtra("aniid",0);
        aniname.setText(nm);
```

```
anitype.setText(ty);
anipic.setImageResource(picid);

backbutton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent i = new Intent(getApplicationContext(),MainActivity.class);
        startActivity(i);
    }
});
}
```