PROJECT REPORT

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1. What is your role?

I made the entire app on my own using android studio. It is a very simple to do list app which provides the user an option to add task and we can strike them once we are done with the task.

2. What you learned while building the project?

I didn't know much about JAVA so I learnt that a little bit. And I had no idea about Android studio so I learnt how to use it to make an app. I loved my experience and I am looking forward to work on Android Studio in future as well.

3.Did you take any courses like coursera, udemy...etc „while working for your project?

I initially learned how to use Android studio and how to install emulator in it for better experience from a youtube channel.
I also referred to a lot of youtube videos to clear my doubts and learn anything that was required.

4. Mention the libraries that you have installed for the project.

I made the app on android studio using list view and array adapter. I ran my app on Pixel 3a API 26 by downloading it on android studio.

5.Also explain the work flow of the project

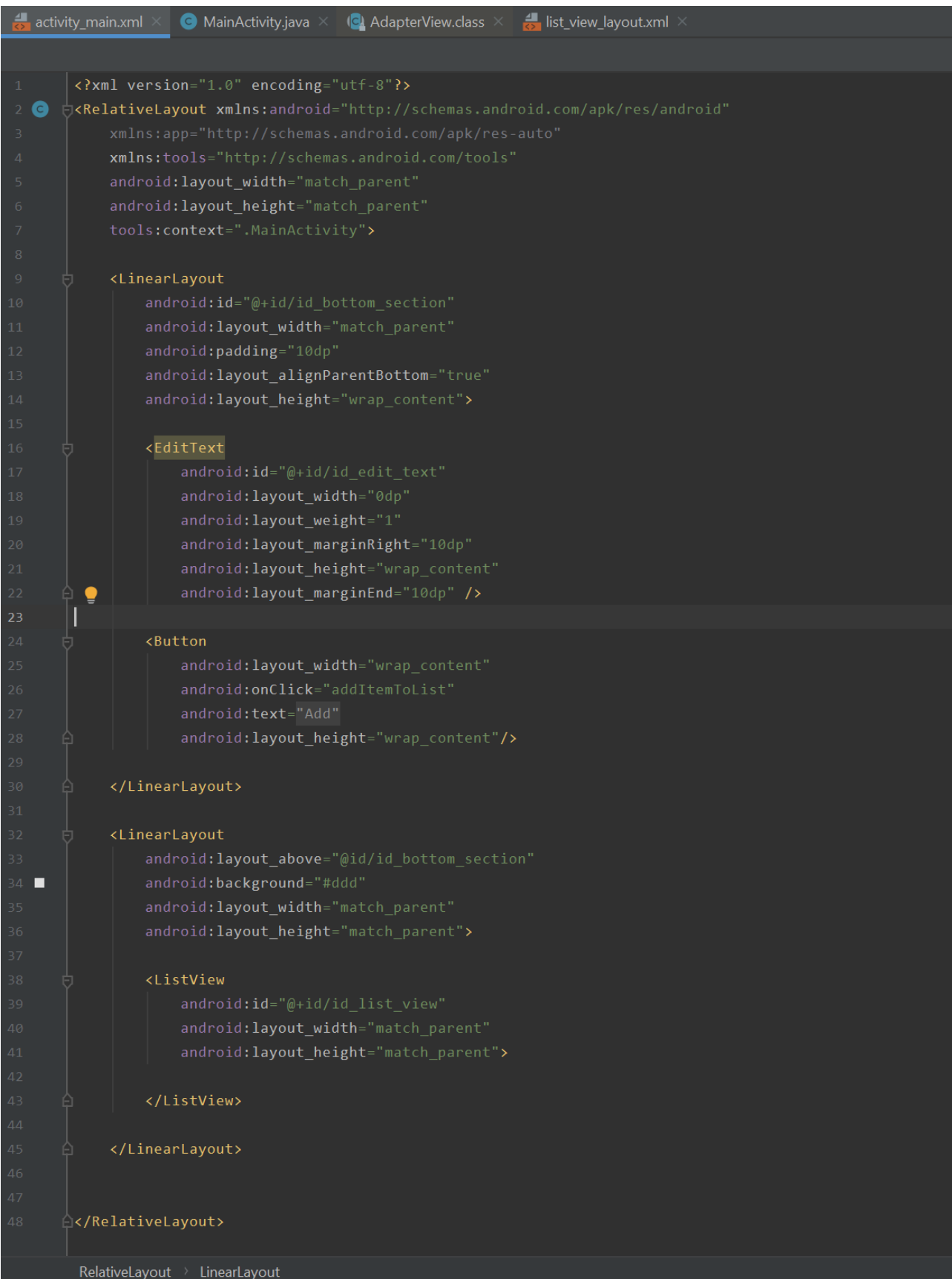In this app the 'DATA SOURCE' will be an array list of strings. The 'ADAPTER' will generate text view for each item in the 'DATA SOURCE' and the 'ADAPTER VIEW' will display all the items as a scrollable 'ListView' to the user.

GITHUB REPO LINK:

https://github.com/soumya0204/TO_DO_LIST_APPLICATION

6. Screen shots

```xml
1   <?xml version="1.0" encoding="utf-8"?>
2   <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
3       xmlns:app="http://schemas.android.com/apk/res-auto"
4       xmlns:tools="http://schemas.android.com/tools"
5       android:layout_width="match_parent"
6       android:layout_height="match_parent"
7       tools:context=".MainActivity">
8
9       <LinearLayout
10          android:id="@+id/id_bottom_section"
11          android:layout_width="match_parent"
12          android:padding="10dp"
13          android:layout_alignParentBottom="true"
14          android:layout_height="wrap_content">
15
16          <EditText
17              android:id="@+id/id_edit_text"
18              android:layout_width="0dp"
19              android:layout_weight="1"
20              android:layout_marginRight="10dp"
21              android:layout_height="wrap_content"
22              android:layout_marginEnd="10dp" />
23
24          <Button
25              android:layout_width="wrap_content"
26              android:onClick="addItemToList"
27              android:text="Add"
28              android:layout_height="wrap_content"/>
29
30      </LinearLayout>
31
32      <LinearLayout
33          android:layout_above="@id/id_bottom_section"
34          android:background="#ddd"
35          android:layout_width="match_parent"
36          android:layout_height="match_parent">
37
38          <ListView
39              android:id="@+id/id_list_view"
40              android:layout_width="match_parent"
41              android:layout_height="match_parent">
42
43          </ListView>
44
45      </LinearLayout>
46
47
48  </RelativeLayout>
```

RelativeLayout > LinearLayout

```java
package com.doitall.myapplication;

import ...

public class MainActivity extends AppCompatActivity {

    List<String> toDoList;
    ArrayAdapter<String> arrayAdapter;
    ListView listView;

    EditText editText;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        toDoList= new ArrayList<>();
        arrayAdapter= new ArrayAdapter<>( context: this,R.layout.list_view_layout,toDoList);
        listView=findViewById(R.id.id_list_view);

        listView.setAdapter(arrayAdapter);
        listView.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {
                TextView textView=(TextView) view;
                textView.setPaintFlags(textView.getPaintFlags() | Paint.STRIKE_THRU_TEXT_FLAG);
            }
        });

        editText=findViewById(R.id.id_edit_text);
    }

    public void addItemToList(View view){
        toDoList.add(editText.getText().toString());
        arrayAdapter.notifyDataSetChanged();

        editText.setText("");
    }
}
```

```xml
1    <?xml version="1.0" encoding="utf-8"?>
2    <TextView xmlns:android="http://schemas.android.com/apk/res/android"
3        android:layout_width="match_parent"
4        android:padding="10dp"
5        android:textStyle="bold"
6        android:textAppearance="@style/TextAppearance.AppCompat.Large"
7        android:layout_height="match_parent"
8        android:text="textview" />
```

Pixel ∨   29 ∨   MyApplication ∨   Default (en-us) ∨

textview

textview

| Item 1 |
| Sub Item 1 |

| Item 2 |
| Sub Item 2 |

| Item 3 |
| Sub Item 3 |

| Item 4 |
| Sub Item 4 |

| Item 5 |
| Sub Item 5 |

| Item 6 |
| Sub Item 6 |

| Item 7 |
| Sub Item 7 |

| Item 8 |
| Sub Item 8 |

| Item 9 |
| Sub Item 9 |

| Item 10 |
| Sub Item 10 |

ADD

id_list_view

id_edit_text   ADD

~~COMPLETE DA1 IN STATISTICS~~

~~COMPLETE LAB ASSIGNMENT 1 IN ENGINEERING CHEMISTRY~~

ATTEND THE IEEE WIE'S CORE MEETING AT 8 PM

ADD

My Application

~~COMPLETE DA 2 IN DLD~~

COMPLETE ASSIGNMENTS IN DSA

~~COMPLETE IPS AND PRACTICE PROBLEMS IN OOPS~~

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