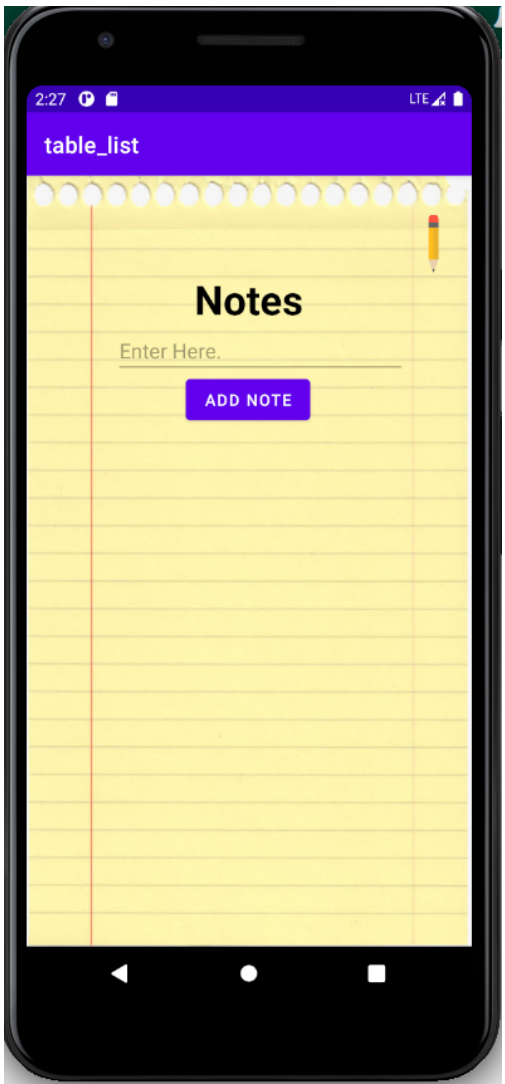
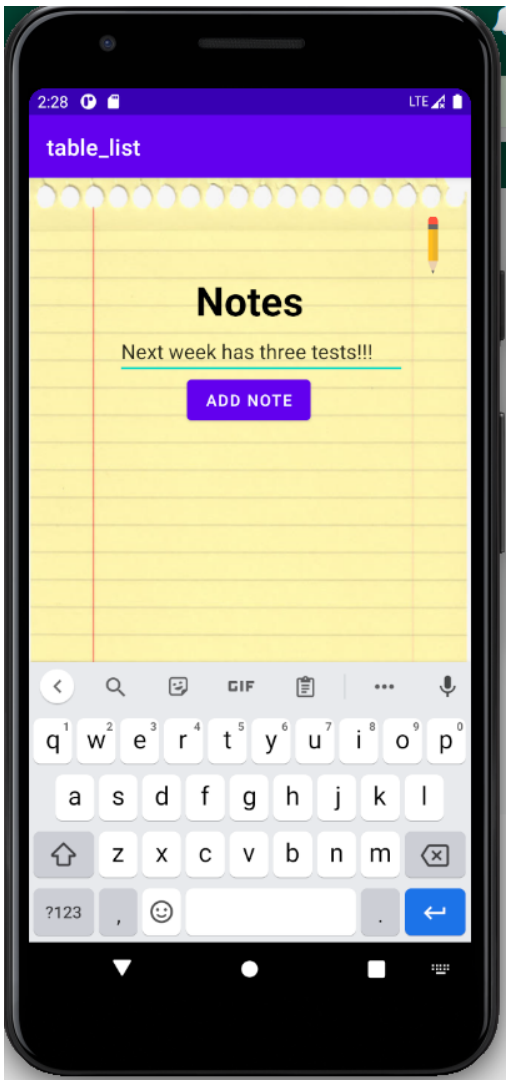
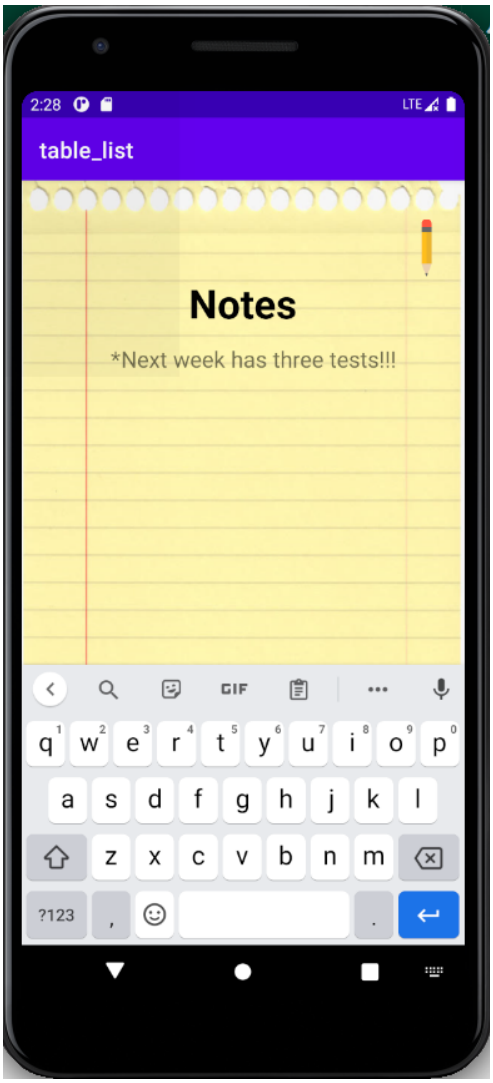
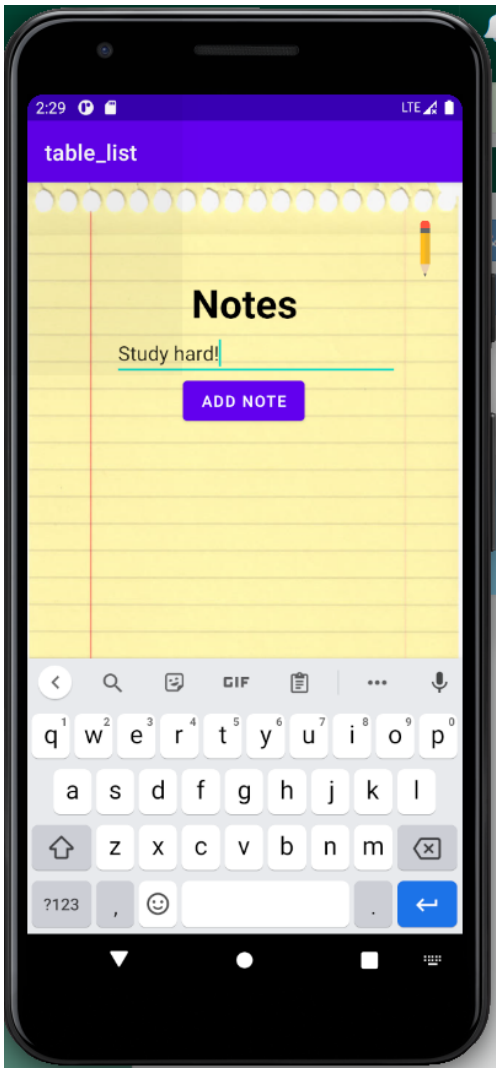
The main point of this app is to simulate Notebook. The front page is just the Title and table for notes. There is a pencil-like button on the top right. If you click it, a input text box and a button("Add Note") will jump out, the table of notes contents will be hidden. You can enter any notes you want into the text box, and click the button("Add Note") to add it to the table. After you click the button("Add Note"), you will jump back to the main page with title and notes table. If you want to delete the notes for a certain row. Simply click that row, then a message("Are you sure you want to delete this row?") will jump out, togehter with two buttons("BACK" and "DELETE"). If you click the delete button, selected row will be deleted. If you click the back button, it takes you back to the main page.

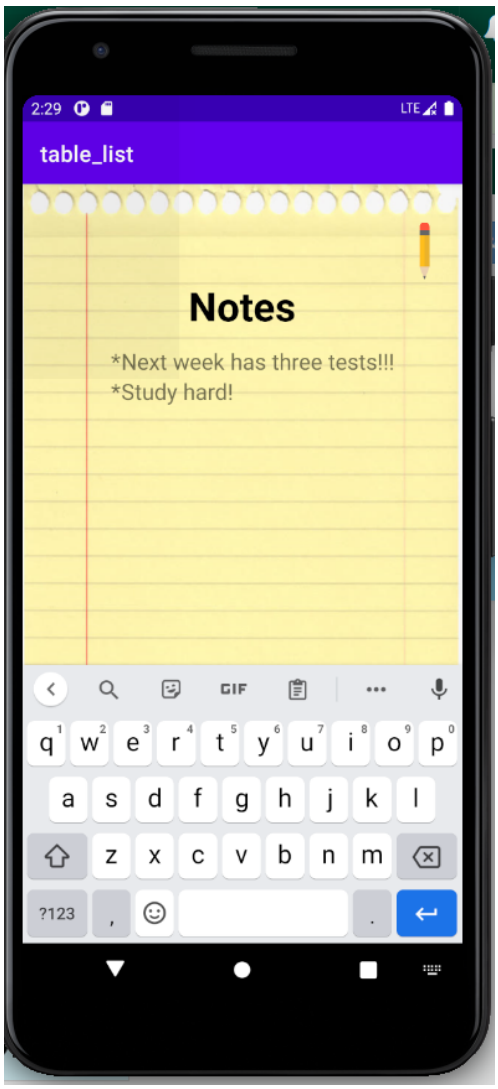
Pictures:

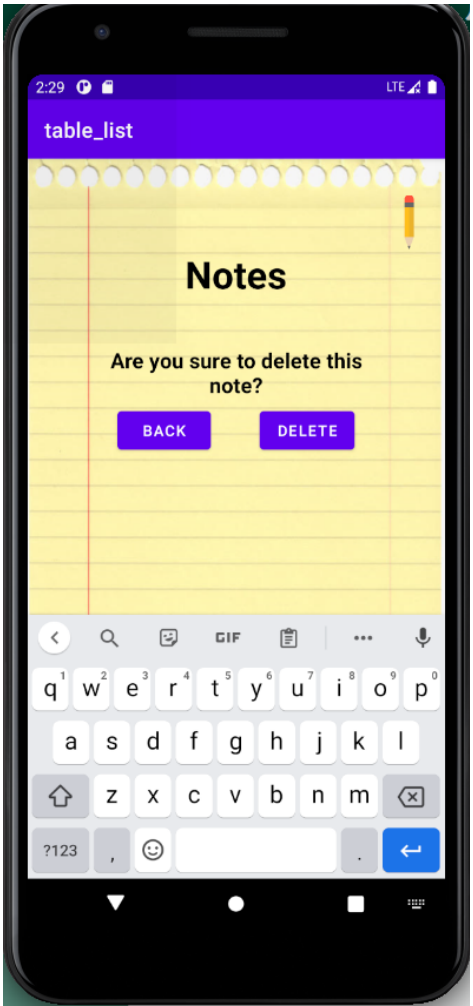


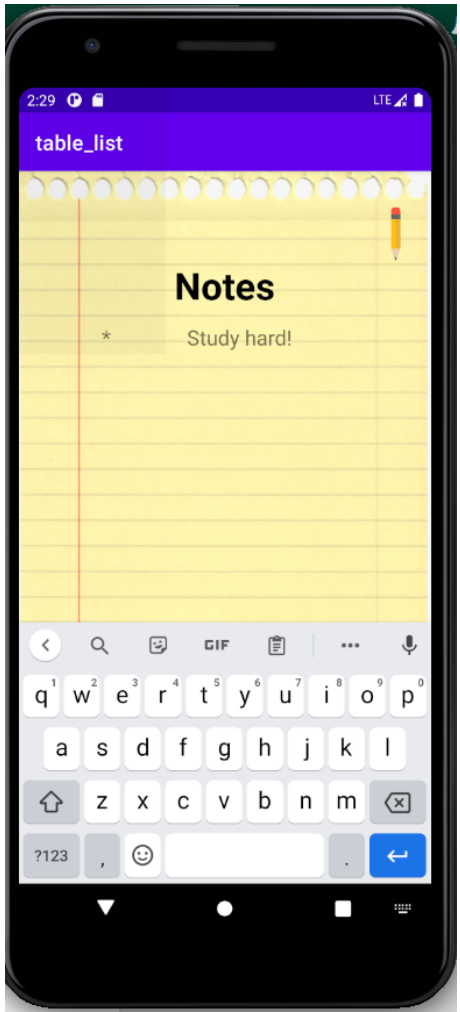


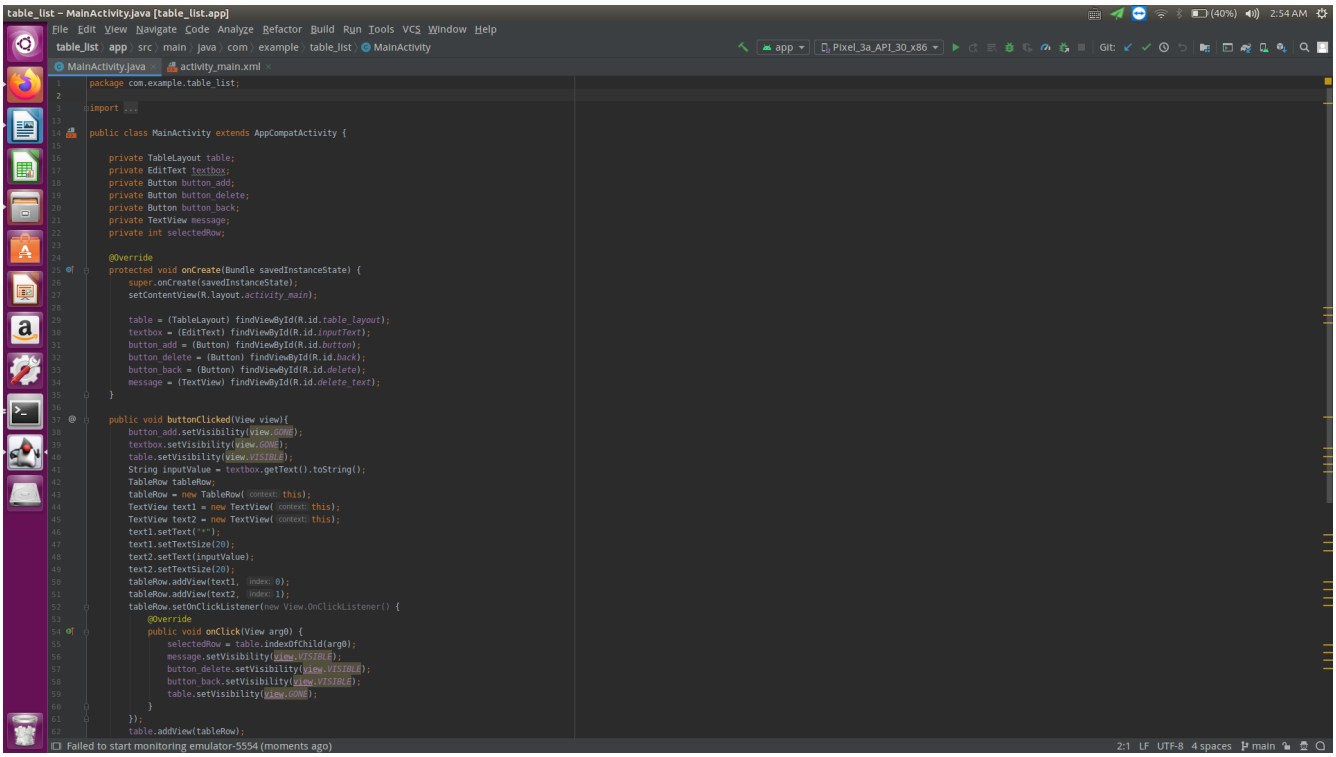

2:28
LTE
table_list
Notes
*Next week has three tests!!!


2:29
LTE
table_list
Notes
Study hard!
ADD NOTE

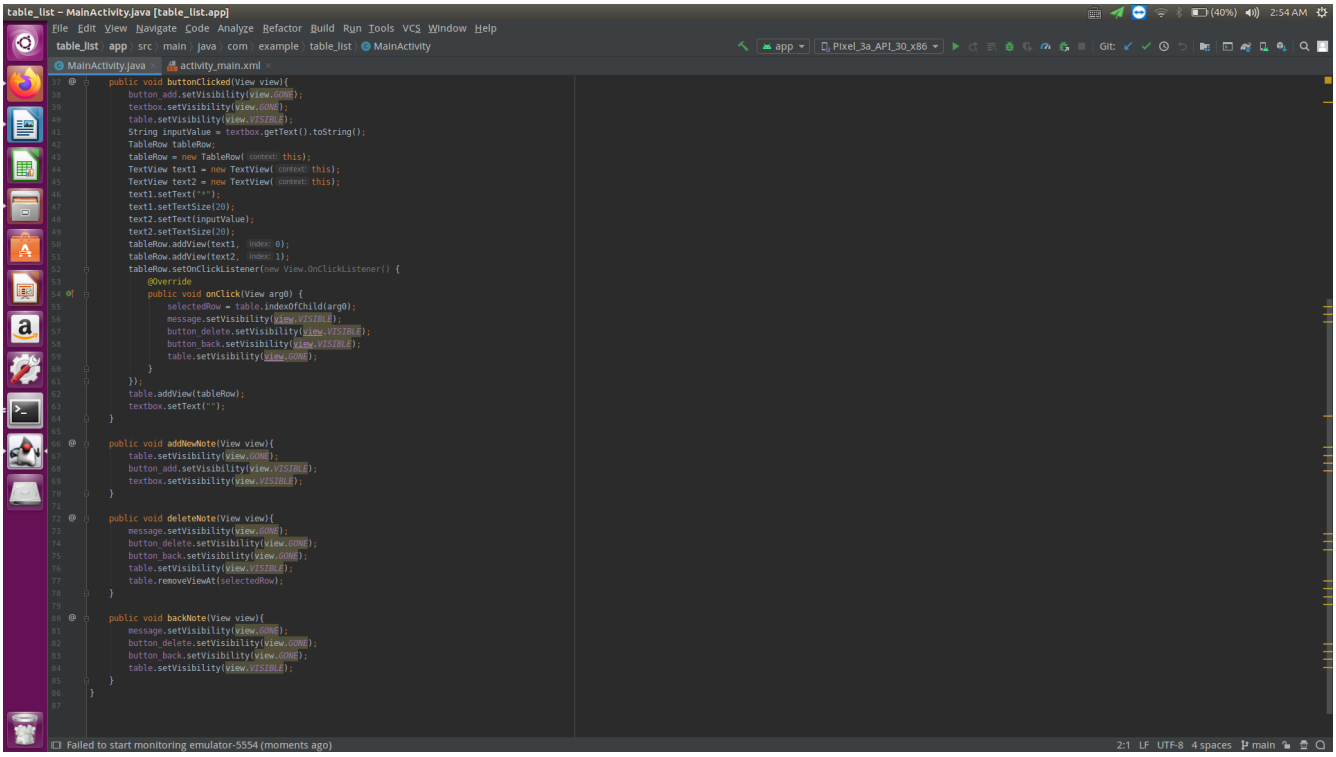

2:29
LTE
table_list
Notes
*Next week has three tests!!!
*Study hard!


2:29
LTE
table_list
Notes
Are you sure to delete this note?
BACK
DELETE

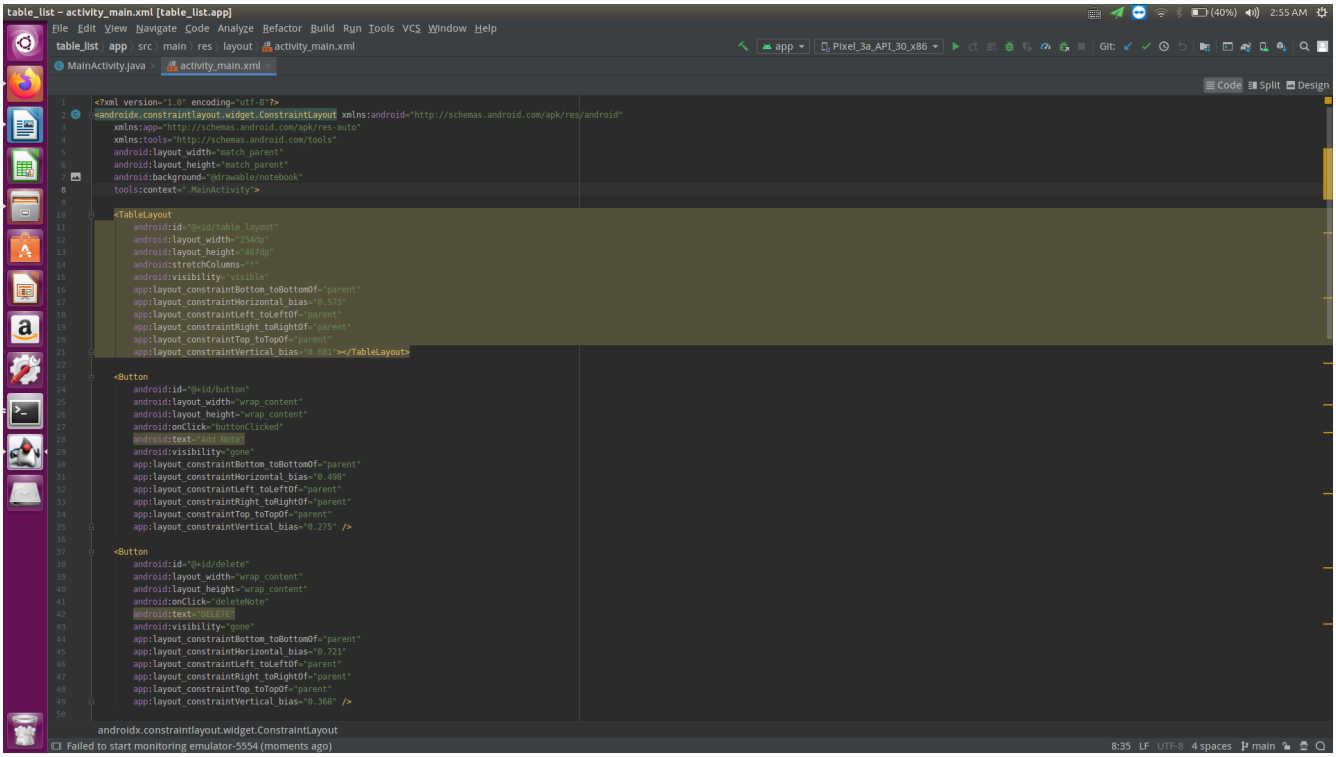

2:29
LTE
table_list
Notes
*
Study hard!

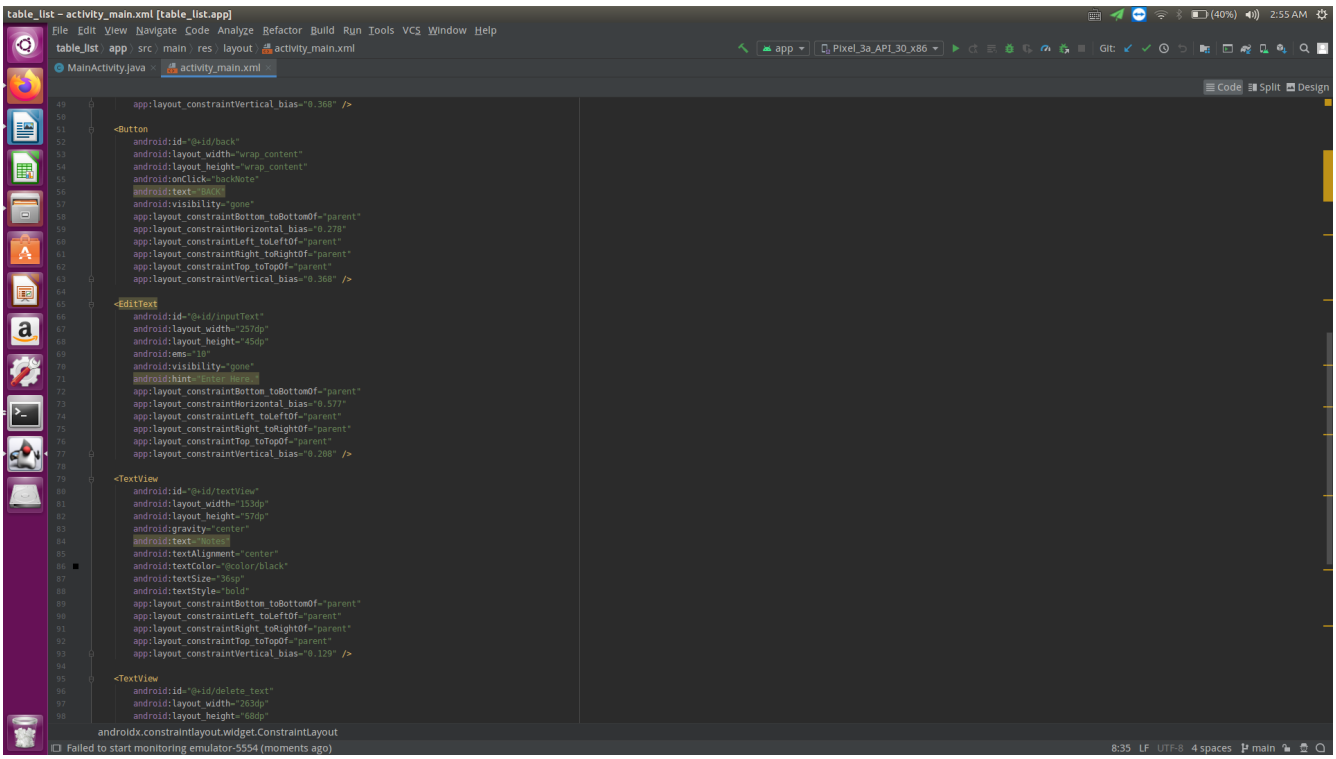


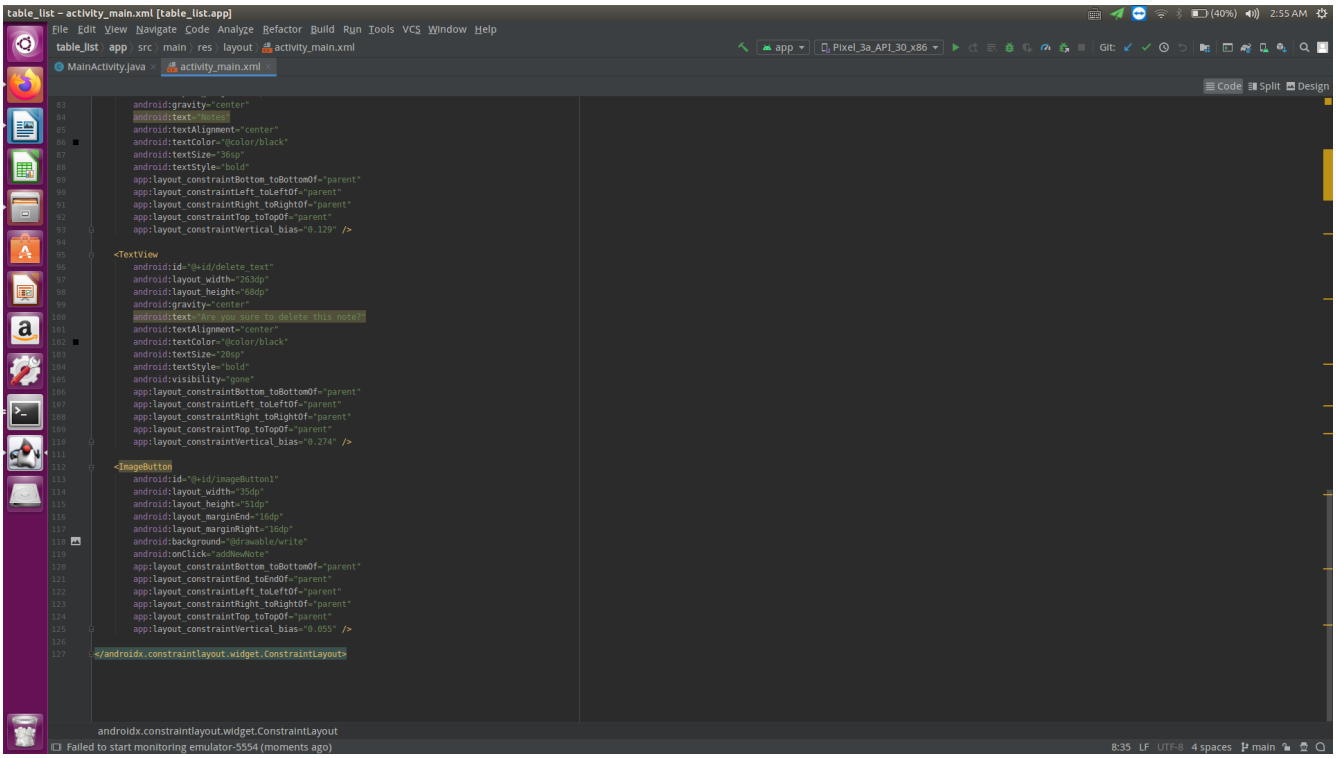

```java
package com.example.table_list;

import ...

public class MainActivity extends AppCompatActivity {

    private TableLayout table;
    private EditText textbox;
    private Button button_add;
    private Button button_delete;
    private Button button_back;
    private TextView message;
    private int selectedRow;

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

        table = (TableLayout) findViewById(R.id.table_layout);
        textbox = (EditText) findViewById(R.id.inputText);
        button_add = (Button) findViewById(R.id.button);
        button_delete = (Button) findViewById(R.id.back);
        button_back = (Button) findViewById(R.id.delete);
        message = (TextView) findViewById(R.id.delete_text);
    }

    public void buttonClicked(View view){
        button_add.setVisibility(view.GONE);
        textbox.setVisibility(view.GONE);
        table.setVisibility(view.VISIBLE);
        String inputValue = textbox.getText().toString();
        TableRow tableRow;
        tableRow = new TableRow( context: this);
        TextView text1 = new TextView( context: this);
        TextView text2 = new TextView( context: this);
        text1.setText("*");
        text1.setTextSize(20);
        text2.setText(inputValue);
        text2.setTextSize(20);
        tableRow.addView(text1, index: 0);
        tableRow.addView(text2, index: 1);
        tableRow.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View arg0) {
                selectedRow = table.indexOfChild(arg0);
                message.setVisibility(view.VISIBLE);
                button_delete.setVisibility(view.VISIBLE);
                button_back.setVisibility(view.VISIBLE);
                table.setVisibility(view.GONE);
            }
        });
        table.addView(tableRow);
```




```java
    public void buttonClicked(View view){
        button_add.setVisibility(view.GONE);
        textbox.setVisibility(view.GONE);
        table.setVisibility(view.VISIBLE);
        String inputValue = textbox.getText().toString();
        TableRow tableRow;
        tableRow = new TableRow( context: this);
        TextView text1 = new TextView( context: this);
        TextView text2 = new TextView( context: this);
        text1.setText("*");
        text1.setTextSize(20);
        text2.setText(inputValue);
        text2.setTextSize(20);
        tableRow.addView(text1, index: 0);
        tableRow.addView(text2, index: 1);
        tableRow.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View arg0) {
                selectedRow = table.indexOfChild(arg0);
                message.setVisibility(view.VISIBLE);
                button_delete.setVisibility(view.VISIBLE);
                button_back.setVisibility(view.VISIBLE);
                table.setVisibility(view.GONE);
            }
        });
        table.addView(tableRow);
        textbox.setText("");
    }

    public void addNewNote(View view){
        table.setVisibility(view.GONE);
        button_add.setVisibility(view.VISIBLE);
        textbox.setVisibility(view.VISIBLE);
    }

    public void deleteNote(View view){
        message.setVisibility(view.GONE);
        button_delete.setVisibility(view.GONE);
        button_back.setVisibility(view.GONE);
        table.setVisibility(view.VISIBLE);
        table.removeViewAt(selectedRow);
    }

    public void backNote(View view){
        message.setVisibility(view.GONE);
        button_delete.setVisibility(view.GONE);
        button_back.setVisibility(view.GONE);
        table.setVisibility(view.VISIBLE);
    }
}
```


table_list – activity_main.xml [table_list.app]
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
table_list app src main res layout activity_main.xml
MainActivity.java
activity_main.xml
Code Split Design
<?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"
android:background="@drawable/notebook"
tools:context=".MainActivity">
<TableLayout
android:id="@+id/table_layout"
android:layout_width="254dp"
android:layout_height="467dp"
android:stretchColumns="*"
android:visibility="visible"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintHorizontal_bias="0.573"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.601"></TableLayout>
<Button
android:id="@+id/button"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:onClick="buttonClicked"
android:text="Add Note"
android:visibility="gone"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintHorizontal_bias="0.498"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.275" />
<Button
android:id="@+id/delete"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:onClick="deleteNote"
android:text="DELETE"
android:visibility="gone"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintHorizontal_bias="0.721"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.368" />
androidx.constraintlayout.widget.ConstraintLayout
Failed to start monitoring emulator-5554 (moments ago)
8:35 LF UTF-8 4 spaces main


table_list – activity_main.xml [table_list.app]
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
table_list app src main res layout activity_main.xml
MainActivity.java
activity_main.xml
Code Split Design
app:layout_constraintVertical_bias="0.368" />
<Button
android:id="@+id/back"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:onClick="backNote"
android:text="BACK"
android:visibility="gone"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintHorizontal_bias="0.278"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.368" />
<EditText
android:id="@+id/inputText"
android:layout_width="257dp"
android:layout_height="45dp"
android:ems="10"
android:visibility="gone"
android:hint="Enter Here.."
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintHorizontal_bias="0.577"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.208" />
<TextView
android:id="@+id/textView"
android:layout_width="153dp"
android:layout_height="57dp"
android:gravity="center"
android:text="Notes"
android:textAlignment="center"
android:textColor="@color/black"
android:textSize="36sp"
android:textStyle="bold"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.129" />
<TextView
android:id="@+id/delete_text"
android:layout_width="263dp"
android:layout_height="68dp"
androidx.constraintlayout.widget.ConstraintLayout
Failed to start monitoring emulator-5554 (moments ago)
8:35 LF UTF-8 4 spaces main



Git log screen shot:

```
betty@betty: ~/Desktop/Spring2021/441/cs441_Table
commit fcb30321ef17f30ae13813462a346a5c4cf50b91
Author: xzhan215 <xzhan215@binghamton.edu>
Date:   Sat Mar 13 02:35:53 2021 +0930

    final final commit

commit da6c18ed23cac177347906a5e952be3a1c82bd72
Author: xzhan215 <xzhan215@binghamton.edu>
Date:   Sat Mar 13 02:11:41 2021 +0930

    finished the project

commit 11b714965848d4c1e94f47813f4a7b6ce0169ff0
Author: xzhan215 <xzhan215@binghamton.edu>
Date:   Thu Mar 11 23:34:22 2021 +0930

    redo the whole program bc some android studio issues and almost finished

commit 95c0663a9e3930c23c2ae0be023f1cc834d3606f
Author: xzhan215 <33211141+xzhan215@users.noreply.github.com>
Date:   Thu Mar 11 23:26:35 2021 +0930

    Delete table directory
:
```

Here is Reference Link I used to write code:

https://stackoverflow.com/questions/18207470/adding-table-rows-dynamically-in-android
https://mkyong.com/android/android-imagebutton-example/