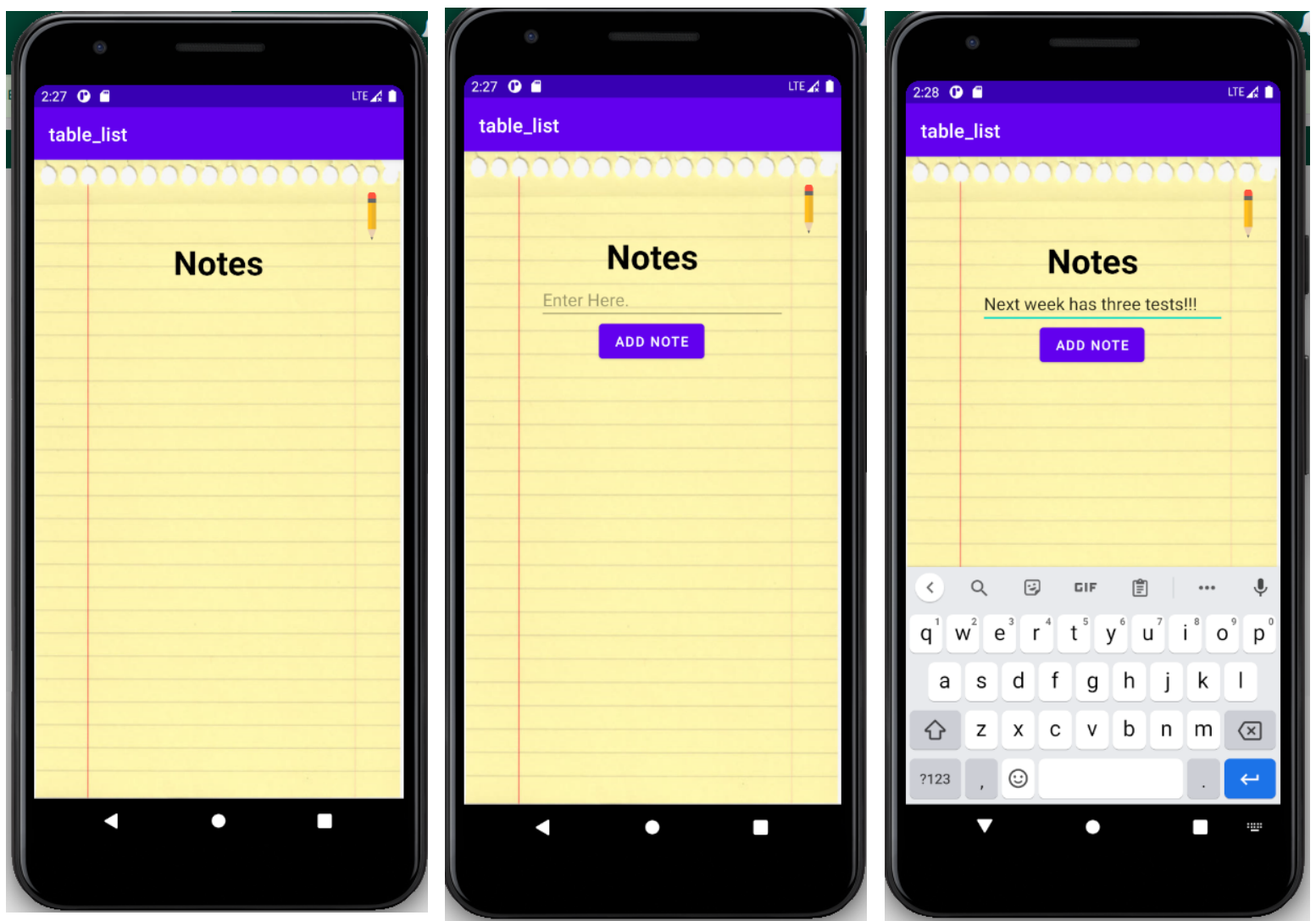
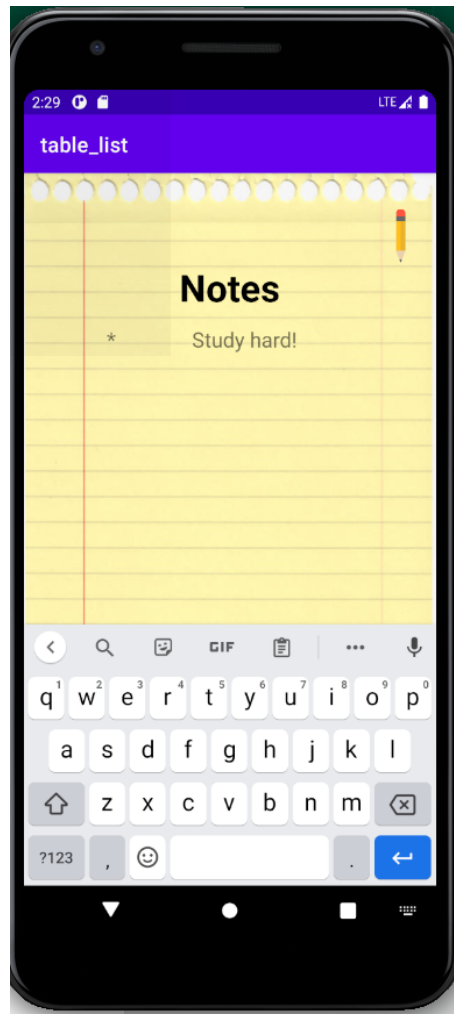
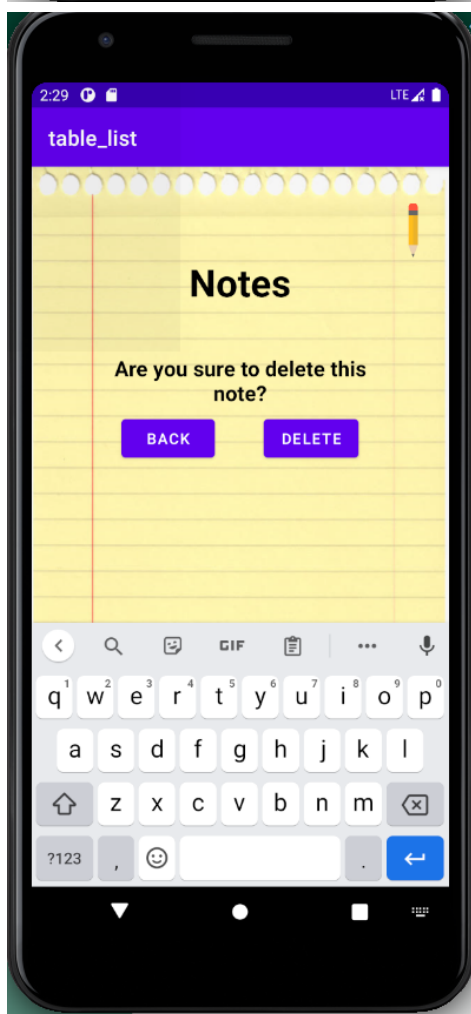
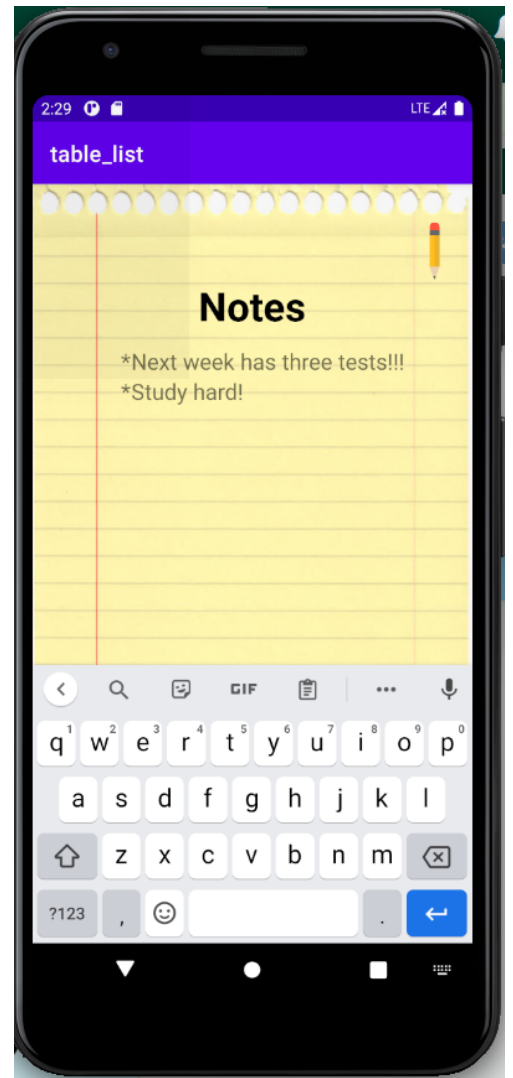
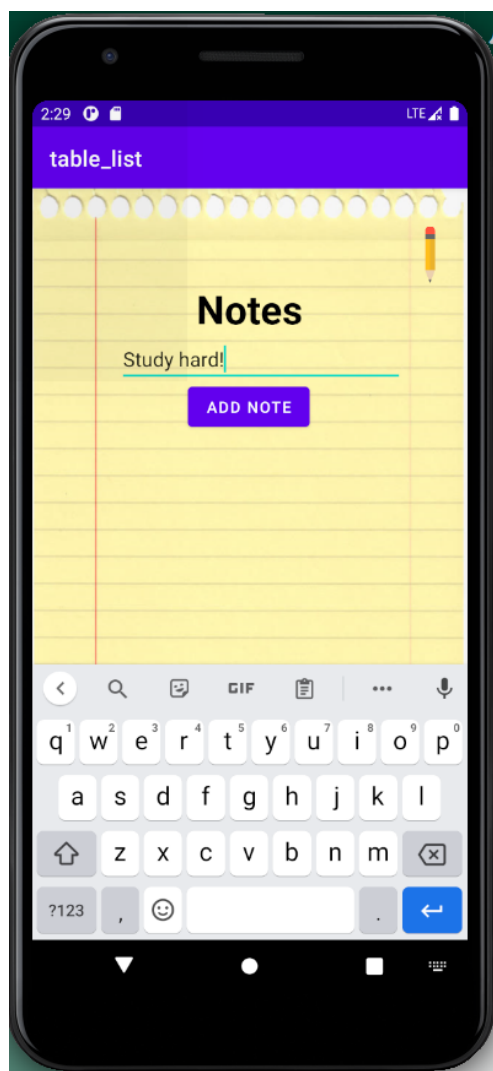


The main point of this app is to simulate Notebook. The front page is just the Title and table for notes. There is a pencil-like button on the top right. If you click it, a input text box and a button("Add Note") will jump out, the table of notes contents will be hidden. You can enter any notes you want 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, together 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:





```
table_list - MainActivity.java [table_list.app]
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
table_list app src main java com example table_list MainActivity
MainActivity.java activity_main.xml
2 package com.example.table_list;
3 import androidx.appcompat.app.AppCompatActivity;
4 import android.os.Bundle;
5 import android.view.View;
6 import android.widget.Button;
7 import android.widget.EditText;
8 import android.widget.TextView;
9 import android.widget.Toast;
10
11 public class MainActivity extends AppCompatActivity {
12
13     private TableLayout table;
14     private EditText textBox;
15     private Button button_add;
16     private Button button_delete;
17     private Button button_back;
18     private TextView message;
19     private int selectedRow;
20
21     @Override
22     protected void onCreate(Bundle savedInstanceState) {
23         super.onCreate(savedInstanceState);
24         setContentView(R.layout.activity_main);
25
26         table = (TableLayout) findViewById(R.id.table_layout);
27         textBox = (EditText) findViewById(R.id.input_text);
28         button_add = (Button) findViewById(R.id.button);
29         button_delete = (Button) findViewById(R.id.button2);
30         button_back = (Button) findViewById(R.id.button3);
31         message = (TextView) findViewById(R.id.delete_text);
32     }
33
34     public void buttonClicked(View view) {
35         button_add.setVisibility(View.GONE);
36         textBox.setVisibility(View.GONE);
37         table.setVisibility(View.VISIBLE);
38         String inputValue = textBox.getText().toString();
39         TableRow tableRow;
40         tableRow = new TableRow(context);
41         TextView text1 = new TextView(context);
42         TextView text2 = new TextView(context);
43         text1.setText("");
44         text1.setTextSize(20);
45         text2.setText(inputValue);
46         text2.setTextSize(20);
47         tableRow.addView(text1, 0);
48         tableRow.addView(text2, 1);
49         tableRow.setOnClickListener(new View.OnClickListener() {
50             @Override
51             public void onClick(View arg0) {
52                 selectedRow = table.indexOfChild(arg0);
53                 message.setVisibility(View.VISIBLE);
54                 button_delete.setVisibility(View.VISIBLE);
55                 button_back.setVisibility(View.VISIBLE);
56                 table.setVisibility(View.GONE);
57             }
58         });
59         table.addView(tableRow);
60     }
61 }
62
63 Failed to start monitoring emulator-5554 (moments ago)
2:1 LF UTF-8 4 spaces main
```

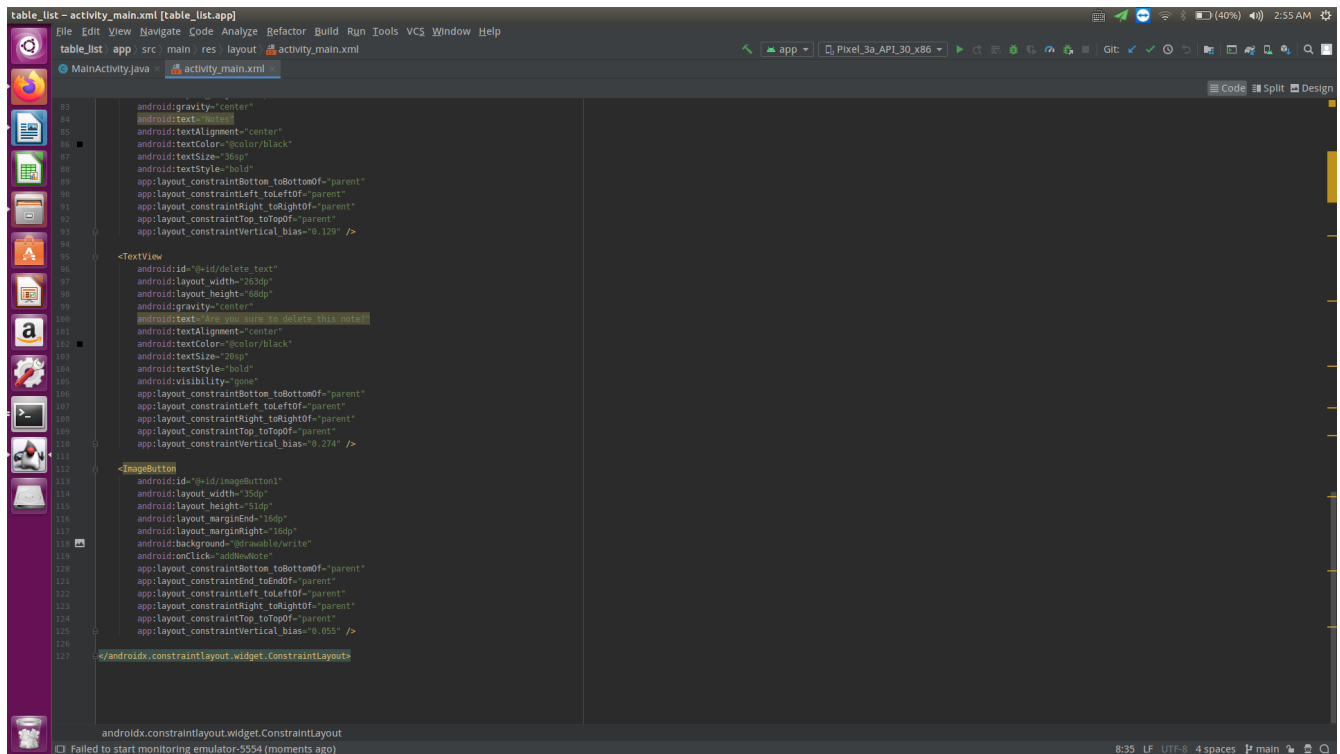
```
table_list - MainActivity.java [table_list.app]
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
table_list app src main java com example table_list MainActivity
MainActivity.java activity_main.xml
37 public void buttonClicked(View view) {
38     button_add.setVisibility(View.GONE);
39     textBox.setVisibility(View.GONE);
40     table.setVisibility(View.VISIBLE);
41     String inputValue = textBox.getText().toString();
42     TableRow tableRow;
43     tableRow = new TableRow(context);
44     TextView text1 = new TextView(context);
45     TextView text2 = new TextView(context);
46     text1.setText("");
47     text1.setTextSize(20);
48     text2.setText(inputValue);
49     text2.setTextSize(20);
50     tableRow.addView(text1, 0);
51     tableRow.addView(text2, 1);
52     tableRow.setOnClickListener(new View.OnClickListener() {
53         @Override
54         public void onClick(View arg0) {
55             selectedRow = table.indexOfChild(arg0);
56             message.setVisibility(View.VISIBLE);
57             button_delete.setVisibility(View.VISIBLE);
58             button_back.setVisibility(View.VISIBLE);
59             table.setVisibility(View.GONE);
60         }
61     });
62     table.addView(tableRow);
63     textBox.setText("");
64 }
65
66 public void addNewNote(View view) {
67     table.setVisibility(View.GONE);
68     button_add.setVisibility(View.VISIBLE);
69     textBox.setVisibility(View.VISIBLE);
70 }
71
72 public void deleteNote(View view) {
73     message.setVisibility(View.GONE);
74     button_delete.setVisibility(View.GONE);
75     button_back.setVisibility(View.GONE);
76     table.setVisibility(View.VISIBLE);
77     table.removeViewAt(selectedRow);
78 }
79
80 public void backNote(View view) {
81     message.setVisibility(View.GONE);
82     button_delete.setVisibility(View.GONE);
83     button_back.setVisibility(View.GONE);
84     table.setVisibility(View.VISIBLE);
85 }
86 }
87
88 Failed to start monitoring emulator-5554 (moments ago)
2:1 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

1 <?xml version="1.0" encoding="utf-8"?>
2 <androidx.constraintlayout.widget.ConstraintLayout 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     android:background="@drawable/notebook"
8     tools:context=".MainActivity">
9
10     <TableLayout
11         android:id="@+id/table_layout"
12         android:layout_width="254dp"
13         android:layout_height="467dp"
14         android:stretchColumns="1"
15         android:visibility="visible"
16         app:layout_constraintBottom_toBottomOf="parent"
17         app:layout_constraintHorizontal_bias="0.573"
18         app:layout_constraintLeft_toLeftOf="parent"
19         app:layout_constraintRight_toRightOf="parent"
20         app:layout_constraintTop_toTopOf="parent"
21         app:layout_constraintVertical_bias="0.861"></TableLayout>
22
23     <Button
24         android:id="@+id/button"
25         android:layout_width="wrap_content"
26         android:layout_height="wrap_content"
27         android:onClick="buttonClicked"
28         #android:text="button"
29         android:visibility="gone"
30         app:layout_constraintBottom_toBottomOf="parent"
31         app:layout_constraintHorizontal_bias="0.498"
32         app:layout_constraintLeft_toLeftOf="parent"
33         app:layout_constraintRight_toRightOf="parent"
34         app:layout_constraintTop_toTopOf="parent"
35         app:layout_constraintVertical_bias="0.275" />
36
37     <Button
38         android:id="@+id/delete"
39         android:layout_width="wrap_content"
40         android:layout_height="wrap_content"
41         android:onClick="deleteNote"
42         #android:text="delete"
43         android:visibility="gone"
44         app:layout_constraintBottom_toBottomOf="parent"
45         app:layout_constraintHorizontal_bias="0.721"
46         app:layout_constraintLeft_toLeftOf="parent"
47         app:layout_constraintRight_toRightOf="parent"
48         app:layout_constraintTop_toTopOf="parent"
49         app:layout_constraintVertical_bias="0.368" />
50
51     </androidx.constraintlayout.widget.ConstraintLayout>
52
53 androidx.constraintlayout.widget.ConstraintLayout
54
55 Failed to start monitoring emulator-5554 (moments ago)
8:35 LF UTF-8 4 spaces main
```

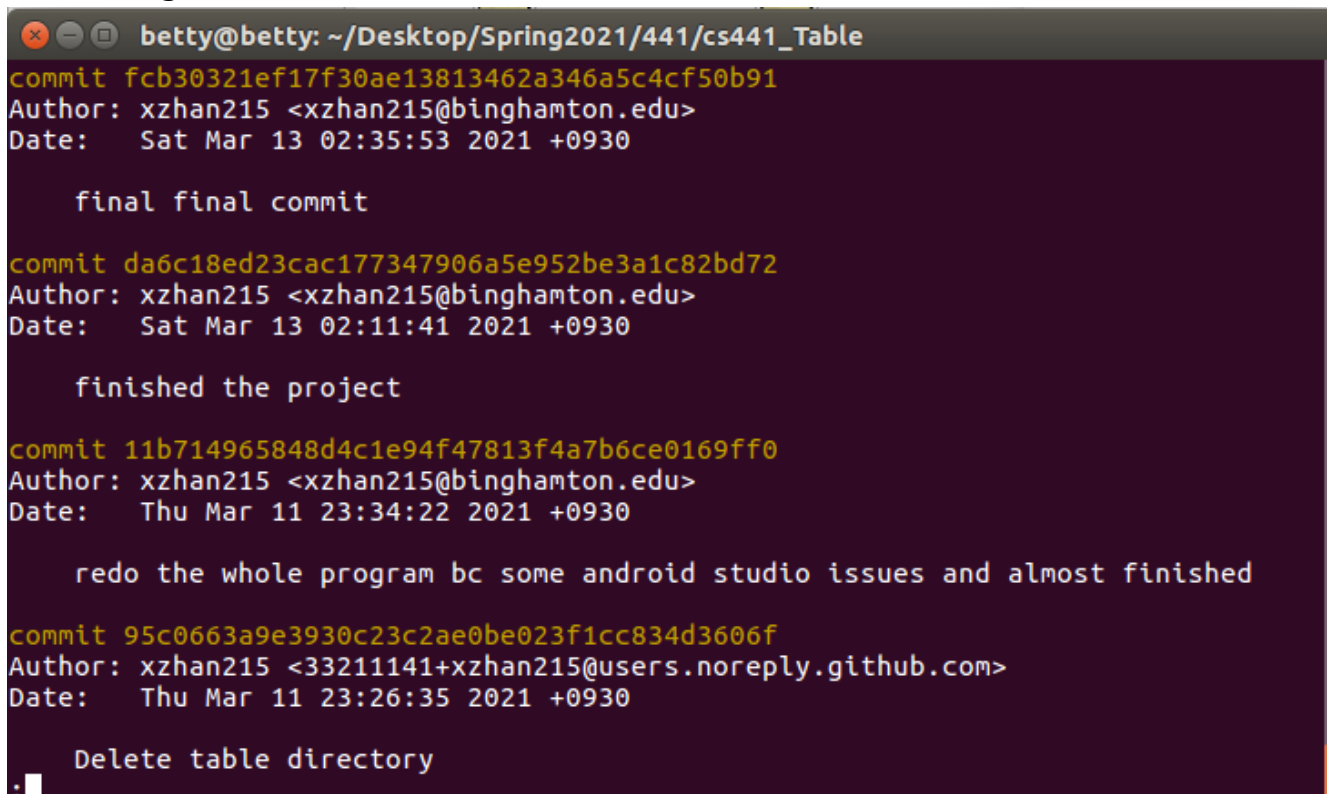
```
table_list - activity_main.xml [table_list.app]
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
table_list app src main res layout activity_main.xml
MainActivity.java activity_main.xml
Code Split Design

49 app:layout_constraintVertical_bias="0.368" />
50
51 <Button
52     android:id="@+id/back"
53     android:layout_width="wrap_content"
54     android:layout_height="wrap_content"
55     android:onClick="backNote"
56     #android:text="back"
57     android:visibility="gone"
58     app:layout_constraintBottom_toBottomOf="parent"
59     app:layout_constraintHorizontal_bias="0.278"
60     app:layout_constraintLeft_toLeftOf="parent"
61     app:layout_constraintRight_toRightOf="parent"
62     app:layout_constraintTop_toTopOf="parent"
63     app:layout_constraintVertical_bias="0.368" />
64
65 <EditText
66     android:id="@+id/inputText"
67     android:layout_width="257dp"
68     android:layout_height="45dp"
69     android:ems="10"
70     #android:hint="enter message"
71     android:visibility="gone"
72     app:layout_constraintBottom_toBottomOf="parent"
73     app:layout_constraintHorizontal_bias="0.577"
74     app:layout_constraintLeft_toLeftOf="parent"
75     app:layout_constraintRight_toRightOf="parent"
76     app:layout_constraintTop_toTopOf="parent"
77     app:layout_constraintVertical_bias="0.298" />
78
79 <TextView
80     android:id="@+id/textView"
81     android:layout_width="153dp"
82     android:layout_height="57dp"
83     android:gravity="center"
84     #android:text="message"
85     android:textAlignment="center"
86     android:textColor="@color/black"
87     android:textSize="36sp"
88     android:textStyle="italic"
89     app:layout_constraintBottom_toBottomOf="parent"
90     app:layout_constraintLeft_toLeftOf="parent"
91     app:layout_constraintRight_toRightOf="parent"
92     app:layout_constraintTop_toTopOf="parent"
93     app:layout_constraintVertical_bias="0.129" />
94
95 <TextView
96     android:id="@+id/delete_text"
97     android:layout_width="263dp"
98     android:layout_height="56dp"
99
100 androidx.constraintlayout.widget.ConstraintLayout
101
102 Failed to start monitoring emulator-5554 (moments ago)
8:35 LF UTF-8 4 spaces main
```



```
103 <android:text="Are you sure to delete this note?"
104 android:gravity="center"
105 android:textAlignment="center"
106 android:textColor="@color/black"
107 android:textSize="36sp"
108 android:textStyle="bold"
109 app:layout_constraintBottom_toBottomOf="parent"
110 app:layout_constraintLeft_toLeftOf="parent"
111 app:layout_constraintRight_toRightOf="parent"
112 app:layout_constraintTop_toTopOf="parent"
113 app:layout_constraintVertical_bias="0.129" />
114
115 <TextView
116 android:id="@+id/delete_text"
117 android:layout_width="283dp"
118 android:layout_height="60dp"
119 android:gravity="center"
120 android:text="Delete table directory"
121 android:textAlignment="center"
122 android:textColor="@color/black"
123 android:textSize="20sp"
124 android:textStyle="bold"
125 android:visibility="gone"
126 app:layout_constraintBottom_toBottomOf="parent"
127 app:layout_constraintLeft_toLeftOf="parent"
128 app:layout_constraintRight_toRightOf="parent"
129 app:layout_constraintTop_toTopOf="parent"
130 app:layout_constraintVertical_bias="0.274" />
131
132 <ImageButton
133 android:id="@+id/imageButton1"
134 android:layout_width="35dp"
135 android:layout_height="31dp"
136 android:layout_marginEnd="16dp"
137 android:layout_marginRight="16dp"
138 android:background="@drawable/write"
139 android:onClick="deleteNote"
140 app:layout_constraintBottom_toBottomOf="parent"
141 app:layout_constraintEnd_toEndOf="parent"
142 app:layout_constraintLeft_toLeftOf="parent"
143 app:layout_constraintRight_toRightOf="parent"
144 app:layout_constraintTop_toTopOf="parent"
145 app:layout_constraintVertical_bias="0.853" />
146
147 </androidx.constraintlayout.widget.ConstraintLayout>
```

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/>