

**20CYS404**  
**APPLICATION APPLICATION DEVELOPMENT**  
**END SEM LAB EXAM**

**Exp 3**

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**AIM:**

1. Create an Empty Notes
2. Add Notes
3. Read the entered notes
4. Edit the notes
5. Delete the notes

**CODE:**

**activity\_main.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@android:color/black"
    android:padding="16dp">

    <TextView
        android:id="@+id/title"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Notes"
        android:textSize="24sp"
        android:textStyle="bold"
        android:textColor="@color/white"
        android:layout_centerHorizontal="true"
        android:layout_marginBottom="16dp"/>
```

```

<ListView
    android:id="@+id/noteListView"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_above="@+id/addNoteButton"
    android:dividerHeight="10dp"
    android:divider="@android:color/transparent"/>

<Button
    android:id="@+id/addNoteButton"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Add Note"
    android:background="@color/orange"
    android:textColor="@android:color/white"
    android:layout_alignParentBottom="true"/>
</RelativeLayout>

```

## MainActivity.java

```

package com.example.notess;

import android.app.AlertDialog;
import android.content.DialogInterface;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ListView;
import androidx.appcompat.app.AppCompatActivity;
import java.util.ArrayList;

public class MainActivity extends AppCompatActivity {

    private ArrayList<Note> notes;
    private NoteAdapter noteAdapter;
    private ListView noteListView;

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

```

```

    notes = new ArrayList<>();
    noteListView = findViewById(R.id.noteListView);
    noteAdapter = new NoteAdapter(this, notes);
    noteListView.setAdapter(noteAdapter);

    Button addNoteButton = findViewById(R.id.addNoteButton);
    addNoteButton.setOnClickListener(v -> showAddDialog());
}

private void showAddDialog() {
    AlertDialog.Builder builder = new AlertDialog.Builder(this);
    builder.setTitle("Add Note");

    View dialogView = getLayoutInflater().inflate(R.layout.dialog_add_note, null);
    builder.setView(dialogView);

    EditText noteTitle = dialogView.findViewById(R.id.note_title);
    EditText noteContent = dialogView.findViewById(R.id.note_content);

    builder.setPositiveButton("Add", (dialog, which) -> {
        String title = noteTitle.getText().toString();
        String content = noteContent.getText().toString();
        if (!title.isEmpty() && !content.isEmpty()) {
            notes.add(new Note(title, content));
            noteAdapter.notifyDataSetChanged();
        }
    });
    builder.setNegativeButton("Cancel", null);
    builder.show();
}

public void showEditDialog(Note note, int position) {
    AlertDialog.Builder builder = new AlertDialog.Builder(this);
    builder.setTitle("Edit Note");

    View dialogView = getLayoutInflater().inflate(R.layout.dialog_edit_note, null);
    builder.setView(dialogView);

    EditText editTitle = dialogView.findViewById(R.id.edit_note_title);
    EditText editContent = dialogView.findViewById(R.id.edit_note_content);

    editTitle.setText(note.getTitle());
    editContent.setText(note.getContent());
}

```

```

        builder.setPositiveButton("Update", (dialog, which) -> {
            String title = editTitle.getText().toString();
            String content = editContent.getText().toString();
            if (!title.isEmpty() && !content.isEmpty()) {
                note.setTitle(title);
                note.setContent(content);
                noteAdapter.notifyDataSetChanged();
            }
        });
        builder.setNegativeButton("Cancel", null);
        builder.show();
    }
}

```

## AndroidManifest.xml

```

<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.notess">

    <application
        android:allowBackup="true"
        android:icon="@drawable/logo1"
        android:label="@string/app_name"
        android:roundIcon="@drawable/logo1"
        android:supportRtl="true"
        android:theme="@style/Theme.AppCompat.Light.DarkActionBar">

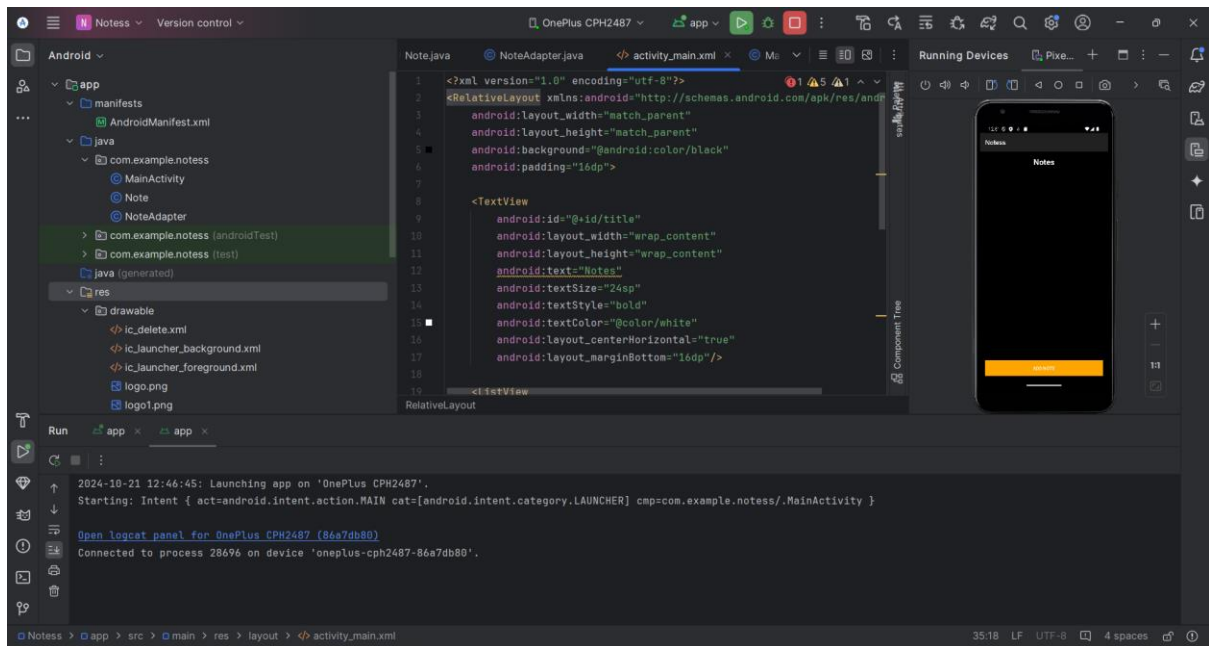
        <activity
            android:name=".MainActivity"
            android:exported="true"> <!-- Added android:exported attribute -->
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>

```

OUTPUT:

Simulator:



Mobile:

