

National Institute of Technology, Warangal

End Lab Exam – MCA 5th Sem



Mobile Application Development

Name – Divyanshu Shrivastava

Roll No. – 187909

MCA 3rd Year

Reg. No. – MC18111

SimpleNotepadActivity.java

```
package com.notepad;
import java.util.ArrayList;
import android.app.Activity;
import android.content.Intent;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.util.Log;
import android.view.ContextMenu;
import android.view.ContextMenu.ContextMenuInfo;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.AdapterContextMenuInfo;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.ListView;
import android.widget.TextView;
public class Simple_NotepadActivity extends Activity implements
    OnItemClickListener {
    private static final String TAG = "notepad";
    private ListView noteList;
    private Button addNoteBtn;
    private ArrayAdapter<String> adapter;
    private Cursor notes;
    private DBHelper dbHelper;
    private ArrayList<String> titles;
    private ArrayList<Item> items;
    private int position = 0;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
        noteList = (ListView) findViewById(R.id.noteList);
        addNoteBtn = (Button) findViewById(R.id.addNote);
        dbHelper = new DBHelper(getApplicationContext());
        setNotes();
        this.registerForContextMenu(noteList);
        addNoteBtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                startActivity(new Intent(getApplicationContext(),
                    CreateNote.class));
            }
        });
    }
    public void setNotes() {
        titles = new ArrayList<String>();
        items = new ArrayList<Item>();
        SQLiteDatabase db = dbHelper.getReadableDatabase();
```

```

        notes = dbhelper.getNotes2(db);
        startManagingCursor(notes);
        db.close();
        if (notes.moveToFirst()) {
            do {
                items.add(new Item(notes.getShort(0),
notes.getString(1)));
            } while (notes.moveToNext());
        }
        for (Item i : items) {
            titles.add(i.getTitle());
        }
        adapter = new ArrayAdapter<String>(this,
            android.R.layout.simple_list_item_1, titles);
        notelist.setAdapter(adapter);
        notelist.setOnItemClickListener(this);
    }
    @Override
    protected void onResume() {
        super.onResume();
        setNotes();
    }
    @Override
    public void onCreateContextMenu(ContextMenu menu, View v,
        ContextMenuInfo menuInfo) {
        super.onCreateContextMenu(menu, v, menuInfo);

        AdapterContextMenuInfo info = (AdapterContextMenuInfo) menuInfo;
        position = info.position;

        menu.setHeaderTitle(getResources().getString(R.string.CtxMenuHeader));

        MenuInflater inflater = getMenuInflater();
        inflater.inflate(R.menu.context_menu, menu);
    }

    @Override
    public boolean onContextItemSelected(MenuItem item) {

        TextView tv = (TextView) notelist.getChildAt(position);

        String title = tv.getText().toString();
        switch (item.getItemId()) {

            case R.id.showNote:
                Intent mIntent = new Intent(this, OneNote.class);
                mIntent.putExtra("id", items.get(position).getId());
                startActivity(mIntent);
                break;

            case R.id.editNote:
                Intent i = new Intent(this, CreateNote.class);

```

```

        i.putExtra("id", items.get(position).getId());
        Log.d(TAG, title);
        i.putExtra("isEdit", true);
        startActivity(i);
        break;

    case R.id.removeNote:

        dbHelper.removeNote(items.get(position).getId());

        setNotes();
        break;

    }

    return false;
}
@Override
public void onItemClick(AdapterView<?> arg0, View arg1, int arg2, long arg3)
{
    TextView tv = (TextView) arg1;
    String title = tv.getText().toString();
    Intent mIntent = new Intent(this, OneNote.class);
    mIntent.putExtra("title", title);
    mIntent.putExtra("id", items.get(arg2).getId());
    startActivity(mIntent);
}
}

```

CreateNote.java

```
package com.notepad;
import android.app.Activity;
import android.content.Intent;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
public class CreateNote extends Activity {

    private static final String TAG = "notepad";

    private Button addNoteToDB;
    private EditText titleEditText;
    private EditText contentEditText;
    private boolean isEdit;
    private DBHelper dbHelper;
    private SQLiteDatabase db;
    private String editTitle;
    private int id = 0;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.createlayout);
        addNoteToDB = (Button) findViewById(R.id.addNoteToDB);
        titleEditText = (EditText) findViewById(R.id.TitleEditText);
        contentEditText = (EditText) findViewById(R.id.ContentEditText);
        dbHelper = new DBHelper(getApplicationContext());
        Intent mIntent = getIntent();
        editTitle = mIntent.getStringExtra("title");
        id = mIntent.getIntExtra("id", 0);
        isEdit = mIntent.getBooleanExtra("isEdit", false);
        if(isEdit) {
            Log.d(TAG, "isEdit");
            db = dbHelper.getReadableDatabase();
            Cursor c = dbHelper.getNote(db, id);
            db.close();
            titleEditText.setText(c.getString(0));
            contentEditText.setText(c.getString(1));
        }
        addNoteToDB.setText(getResources().getString(R.string.updateNoteButton));
        addNoteToDB.setOnClickListener(new View.OnClickListener() {

            @Override
            public void onClick(View v) {
                String title = titleEditText.getText().toString();
```

```

        String content = contentEditText.getText().toString();
        if (title.equals("") || content.equals("")) {
            Toast.makeText(getApplicationContext(),
getResources().getString(R.string.validation), Toast.LENGTH_LONG).show();
            return;
        }
        if (!isEdit) {
            dbhelper = new DBHelper(getApplicationContext());
            dbhelper.addNote(title, content);
            finish();
        } else {
            dbhelper.updateNote(title, content, editTitle);
            finish();
        }
    }

});

}

@Override
protected void onPause() {
    super.onPause();
    dbhelper.close();
}
}

```

DatabaseHelper.java

```
package com.notepad;
import java.util.Date;
import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
public class DBHelper extends SQLiteOpenHelper {
    private Context ctx;
    private static final int version = 1;
    private static final String DB_NAME = "notesDB";
    private static final String TABLE_NAME = "notes";
    private static final String KEY_ID = "id";
    private static final String KEY_TITLE = "noteTitle";
    private static final String KEY_CONTENT = "noteContent";
    private static final String KEY_DATE = "date";
    private static final String CREATE_TABLE = "CREATE TABLE " + TABLE_NAME + "
(id INTEGER PRIMARY KEY AUTOINCREMENT, "+KEY_TITLE+" TEXT NOT NULL, "+KEY_CONTENT+"
TEXT NOT NULL, "+KEY_DATE+" TEXT);";
    public DBHelper(Context context) {
        super(context, DB_NAME, null, version);
        this.ctx = context;
    }
    @Override
    public void onCreate(SQLiteDatabase db) {
        db.execSQL(CREATE_TABLE);
    }
    @Override
    public void onUpgrade(SQLiteDatabase db, int arg1, int arg2) {
        db.execSQL("DROP TABLE IF EXIST " + TABLE_NAME);
        onCreate(db);
    }
    public void addNote(String title, String content) {
        SQLiteDatabase db = this.getWritableDatabase();
        ContentValues cv = new ContentValues();
        cv.put("noteTitle", title);
        cv.put("noteContent", content);
        cv.put("date", new Date().toString());
        db.insert(TABLE_NAME, null, cv);
        db.close();
    }
    public Cursor getNotes(SQLiteDatabase db) {
        Cursor c = db.query(TABLE_NAME, new String[] {KEY_TITLE,
KEY_CONTENT}, null, null, null, null, "id DESC");
        c.moveToFirst();
        return c;
    }
    public Cursor getNotes2(SQLiteDatabase db) {
        Cursor c = db.query(TABLE_NAME, new String[] {KEY_ID, KEY_TITLE},
null, null, null, null, "id DESC");
        c.moveToFirst();
    }
}
```

```

        return c;
    }
    public Cursor getNote(SQLiteDatabase db, int id) {
        Cursor c = db.query(TABLE_NAME, new String[] {KEY_TITLE, KEY_CONTENT,
KEY_DATE}, KEY_ID + " = ?", new String[] { String.valueOf(id) }, null, null, null);
        c.moveToFirst();
        return c;
    }

    public void removeNote(int id) {
        SQLiteDatabase db = getWritableDatabase();
        db.delete(TABLE_NAME, KEY_ID + " = ?", new String[] {
String.valueOf(id) });
        db.close();
    }
    public void updateNote(String title, String content, String editTitle) {
        SQLiteDatabase db = this.getWritableDatabase();
        ContentValues cv = new ContentValues();
        cv.put("noteTitle", title);
        cv.put("noteContent", content);
        cv.put("date", new Date().toString());
        db.update(TABLE_NAME, cv, KEY_TITLE + " LIKE '" + editTitle + "'",
null);
        db.close();
    }
}

```

ListNote.java

```

package com.notepad;

public class Item {
    private int id;
    private String title;
    public Item(int id, String title) {
        this.id = id;
        this.title = title;
    }
    public int getId() {
        return id;
    }
    public String getTitle() {
        return title;
    }
}

```


GetNote.java

```
package com.notepad;
import android.app.Activity;
import android.content.Intent;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.util.Log;
import android.widget.TextView;
public class OneNote extends Activity {
    private static final String TAG = "notepad";
    private TextView noteTitle;
    private TextView createdAt;
    private TextView noteContent;
    private DBHelper dbHelper;
    private SQLiteDatabase db;
    private String title = "defaultTitle";
    private int id = 0;
    private String content = "defaultContent";
    private String date = "date";
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.onenote);
        dbHelper = new DBHelper(getApplicationContext());
        noteTitle = (TextView) findViewById(R.id.noteTitle);
        noteContent = (TextView) findViewById(R.id.noteContent);
        createdAt = (TextView) findViewById(R.id.createdAt);
        Intent mIntent = getIntent();
        id = mIntent.getIntExtra("id", 0);
        db = dbHelper.getReadableDatabase();
        Cursor c = dbHelper.getNote(db, id);
        db.close();
        title = c.getString(0).toString();
        content = c.getString(1).toString();
        date = c.getString(2).toString();
        noteTitle.setText(title);
        noteContent.setText(content);
        createdAt.setText(date);
    }
}
```

XML Files

AndroidManifest.java

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.notepad"
    android:versionCode="1"
    android:versionName="1.0" >

    <uses-sdk android:minSdkVersion="4" />

    <application
        android:icon="@drawable/ic_launcher"
        android:label="@string/app_name" >
        <activity
            android:label="@string/app_name"
            android:name=".Simple_NotepadActivity" >
            <intent-filter >
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <activity
            android:label="@string/oneNote"
            android:name=".OneNote" >
        </activity>
        <activity
            android:label="@string/oneNote"
            android:name=".CreateNote" >
        </activity>
    </application>

</manifest>
```

Layout.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="vertical" >

    <ScrollView
        android:id="@+id/scrollView1"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content" >

        <LinearLayout
            android:id="@+id/linearLayout3"
```

```

        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical" >

        <TextView
            android:id="@+id/textView1"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="@string/noteTitle"
            android:textAppearance="?android:attr/textAppearanceLarge" />

        <EditText
            android:id="@+id/TitleEditText"
            android:hint="@string/titleHint"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content" >

            <requestFocus />
        </EditText>

        <TextView
            android:id="@+id/textView2"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="@string/noteContent"
            android:textAppearance="?android:attr/textAppearanceLarge" />

        <EditText
            android:id="@+id/ContentEditText"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content"
            android:inputType="textMultiLine"
            android:lines="4" >
        </EditText>
    </LinearLayout>
</ScrollView>

<Button
    android:id="@+id/addNoteToDB"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="@string/saveNoteButton" />
</LinearLayout>

```

main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="vertical" >

```

```

<TextView
    android:id="@+id/textView1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:text="@string/mainHeader"
    android:textAppearance="?android:attr/textAppearanceLarge" />

<ListView
    android:id="@+id/noteList"
    android:layout_width="fill_parent"
    android:layout_height="0dip"
    android:layout_weight="0.75"
    >
</ListView>

<Button
    android:id="@+id/addNote"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="@string/addNoteButton" />

</LinearLayout>

```

OneNote.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="vertical" >
    <TextView
        android:id="@+id/noteTitle"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_margin="5dp"
        android:text="Large Text"
        android:textAppearance="?android:attr/textAppearanceLarge" />
    <TextView
        android:id="@+id/createdAt"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_margin="5dp"
        android:text="Medium Text" />
    <TextView
        android:id="@+id/noteContent"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_margin="5dp"
        android:text="TextView"
        android:textAppearance="?android:attr/textAppearanceMedium" />
</LinearLayout>

```

ContextMenu.xml

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android" >
    <item android:id="@+id/showNote" android:title="@string/showNote"></item>
    <item android:id="@+id/editNote" android:title="@string/editNote"></item>
    <item android:id="@+id/removeNote" android:title="@string/removeNote"></item>
</menu>
```

strings.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>

    <string name="app_name">Simple_Notepad</string>
    <string name="oneNote">NoteView</string>
    <string name="addNoteButton">New note</string>
    <string name="mainHeader">My notes</string>
    <string name="CtxMenuHeader">Choose action</string>
    <string name="updateNoteButton">Update note</string>
    <string name="validation">Please fill the title and/or content field</string>
    <string name="noteTitle">Note\'s title</string>
    <string name="noteContent">Note\'s content</string>
    <string name="saveNoteButton">Save note</string>
    <string name="showNote">Show note</string>
    <string name="editNote">Edit note</string>
    <string name="removeNote">Remove note</string>

    <string name="titleHint">Enter title here</string>

</resources>
```