

## **Tribhuvan University**

Faculty of Humanities and Social Sciences

Kirtipur, Nepal

### **Mini Project of**

### **Note Taking App**

### **[Mobile Programming (CACS 351)]**

*For the partial fulfillment for the Bachelor in Computer Application  
under Tribhuvan University*

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# Table of Contents

1. INTRODUCTION	1
1.1 Introduction to Note Taking App	1
1.2 Problem of Statement	1
1.3 Features of Project	2
1.4 Scope of the Application	2
2. ANALYSIS AND DESIGN	3
2.1 Background Research	3
2.2 Requirement Analysis	3
2.3 Feasibility Analysis	3
2.1.1 Economic Feasibility	3
2.2.2 Technical Feasibility	4
2.3.3 Operational Feasibility	4
2.4 Source Code	4
2.5 UI Interface	11
3. CONCLUSION	14

# **1. INTRODUCTION**

## **1.1 Introduction to Note Taking App**

The project Note Taking App is a Mobile based application designed on java technology using Android Studio. The main aim of the project is to take notes and that helps you gather and organize your information — all in one place.

In a busy schedule, we tend to forget many important things easily and to remember these things we need to note down things in a piece of paper. In such busy schedules, people need some personal assistance or a reminder to remind them about the important work that needs to be done. This android application will help them to remind, them to do such important things.

## **1.2 Problem of Statement**

The problems of Note Taking Application are given below:

- i. Paper-based process
- ii. Most applications are online-based
- iii. The world is moving toward digital platforms but we are still on traditional way.

## **1.3 Features of Project**

The main aim of the project is to take notes and that helps you gather and organize your information — all in one place. This android application will help them to remind, them to do such important things.

**View All Notes List:**

We open the app and we see our previously taken notes.

**Create Notes:**

We can create new notes easily.

**Sales details:**

It shows the note taken time with title and description.

**Update and delete:**

We can easily update and delete previously taken notes.

**1.4 Scope of the Application**

This note-taking app has targeted lightweight mobile devices so everyone can access this application easily. This app has inbuilt SQLite database features. Users can save all notes in their smartphone's local storage.

## **2. ANALYSIS AND DESIGN**

### **2.1 Objective**

The objective of this app is to create a fully-functional note-taking application.

- i. To create notes
- ii. To edit notes
- iii. To delete notes
- iv. To view notes

### **2.2 Requirement Analysis**

We collected a number of requirements for the project from our primitive research, website visits, and interview to the concerned personnel and their experiences regarding the concepts of its development. We have even visited some organizations in Kathmandu valley and analyzed their importance and tried to develop the project by fulfilling all the weaknesses that were found in the application. We then decided to build same type of application with different logic flow and new language which will be suitable for the small organization.

### **2.3 Feasibility Analysis**

This software has been tested for various feasibility criteria from various point of views.

#### **2.1.1 Economic Feasibility**

The system is estimated to be economically affordable. The system is medium scale desktop application and has affordable price. The benefits include increased efficiency, effectiveness, and the better performance. Comparing the cost and benefits the system is found to be economically feasible.

#### **2.2.2 Technical Feasibility**

Development of the system requires tools like:

- i. Android Studio
- ii. Java Programming
- iii. SQLite Database

Which are easily available within the estimated cost and schedule.

### **2.3.3 Operational Feasibility**

The system provides better solution to the libraries by adding the typical requirement and necessities. The solution provided by this system will be acceptable to ultimate solution for the stock management.

## **2.4 Source Code**

### **Add.java**

```
package com.xstudioo.noteme;

import android.content.Intent;
import android.os.Bundle;
import android.support.design.widget.FloatingActionButton;
import android.support.v7.app.AppCompatActivity;
import android.support.v7.widget.Toolbar;
import android.text.method.ScrollingMovementMethod;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.widget.TextView;
import android.widget.Toast;

public class Detail extends AppCompatActivity {
    long id;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
```

```

super.onCreate(savedInstanceState);
setContentView(R.layout.activity_detail);
Toolbar toolbar = findViewById(R.id.toolbar);
setSupportActionBar(toolbar);

```

```

Intent i = getIntent();
id = i.getLongExtra("ID",0);
SimpleDatabase db = new SimpleDatabase(this);
Note note = db.getNote(id);
getSupportActionBar().setTitle(note.getTitle());
TextView details = findViewById(R.id.noteDesc);
details.setText(note.getContent());
details.setMovementMethod(new ScrollingMovementMethod());

```

```

FloatingActionButton fab = findViewById(R.id.fab);
fab.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        SimpleDatabase db = new SimpleDatabase(getApplicationContext());
        db.deleteNote(id);
        Toast.makeText(getApplicationContext(),"Note
Deleted",Toast.LENGTH_SHORT).show();
        goToMain();
    }
});
getSupportActionBar().setDisplayHomeAsUpEnabled(true);
}

```

```

@Override
public boolean onCreateOptionsMenu(Menu menu) {
    MenuInflater inflater = getMenuInflater();
    inflater.inflate(R.menu.edit_menu,menu);
}

```

```

        return true;
    }

    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        if(item.getItemId() == R.id.edit){
            Intent i = new Intent(this,Edit.class);
            i.putExtra("ID",id);
            startActivity(i);

        }
        return super.onOptionsItemSelected(item);
    }

    @Override
    public void onBackPressed() {
        super.onBackPressed();
    }

    private void goToMain() {
        Intent i = new Intent(this,MainActivity.class);
        startActivity(i);
    }
}

```

## **Edit.java**

```

package com.xstudioo.noteme;

import android.content.Intent;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.support.v7.widget.Toolbar;

```



```

import android.text.Editable;
import android.text.TextWatcher;
import android.util.Log;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.widget.EditText;
import android.widget.Toast;

import java.util.Calendar;

public class Edit extends AppCompatActivity {
    Toolbar toolbar;
    EditText nTitle,nContent;
    Calendar c;
    String todaysDate;
    String currentTime;
    long nId;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_edit);
        toolbar = findViewById(R.id.toolbar);
        setSupportActionBar(toolbar);
        getSupportActionBar().setDisplayHomeAsUpEnabled(true);
        getSupportActionBar().setHomeButtonEnabled(true);

        Intent i = getIntent();
        nId = i.getLongExtra("ID",0);
        SimpleDatabase db = new SimpleDatabase(this);
        Note note = db.getNote(nId);

```

```

final String title = note.getTitle();
String content = note.getContent();
nTitle = findViewById(R.id.noteTitle);
nContent = findViewById(R.id.noteDetails);
nTitle.addTextChangedListener(new TextWatcher() {
    @Override
    public void beforeTextChanged(CharSequence s, int start, int count, int after) {
        getSupportActionBar().setTitle(title);
    }

    @Override
    public void onTextChanged(CharSequence s, int start, int before, int count) {
        if(s.length() != 0){
            getSupportActionBar().setTitle(s);
        }
    }

    @Override
    public void afterTextChanged(Editable s) {

    }
});

```

```

nTitle.setText(title);
nContent.setText(content);

// set current date and time
c = Calendar.getInstance();
todaysDate =
c.get(Calendar.YEAR)+"/"+(c.get(Calendar.MONTH)+1)+"/"+c.get(Calendar.DAY_OF_
MONTH);
Log.d("DATE", "Date: "+todaysDate);
currentTime = pad(c.get(Calendar.HOUR))+":"+pad(c.get(Calendar.MINUTE));

```

```

        Log.d("TIME", "Time: "+currentTime);
    }

    private String pad(int time) {
        if(time < 10)
            return "0"+time;
        return String.valueOf(time);
    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        MenuInflater inflater = getMenuInflater();
        inflater.inflate(R.menu.save_menu,menu);
        return true;
    }

    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        if(item.getItemId() == R.id.save){
            Note note = new
Note(nId,nTitle.getText().toString(),nContent.getText().toString(),todaysDate,currentTim
e);

            Log.d("EDITED", "edited: before saving id -> " + note.getId());
            SimpleDatabase sDB = new SimpleDatabase(getApplicationContext());
            long id = sDB.editNote(note);
            Log.d("EDITED", "EDIT: id " + id);
            goToMain();

            Toast.makeText(this, "Note Edited.", Toast.LENGTH_SHORT).show();
        }else if(item.getItemId() == R.id.delete){
            Toast.makeText(this, "Canceled", Toast.LENGTH_SHORT).show();
            onBackPressed();
        }
        return super.onOptionsItemSelected(item);
    }

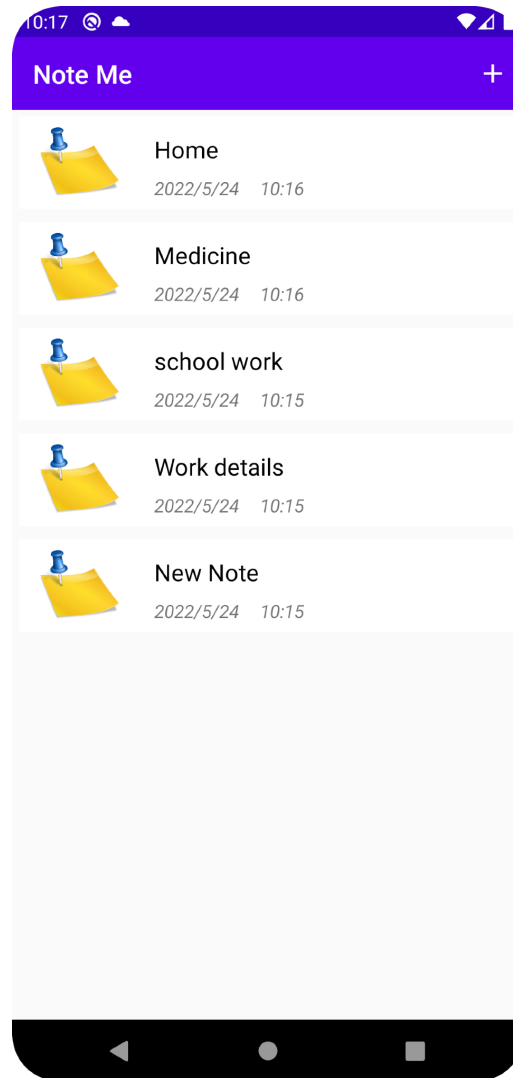
```

```
}

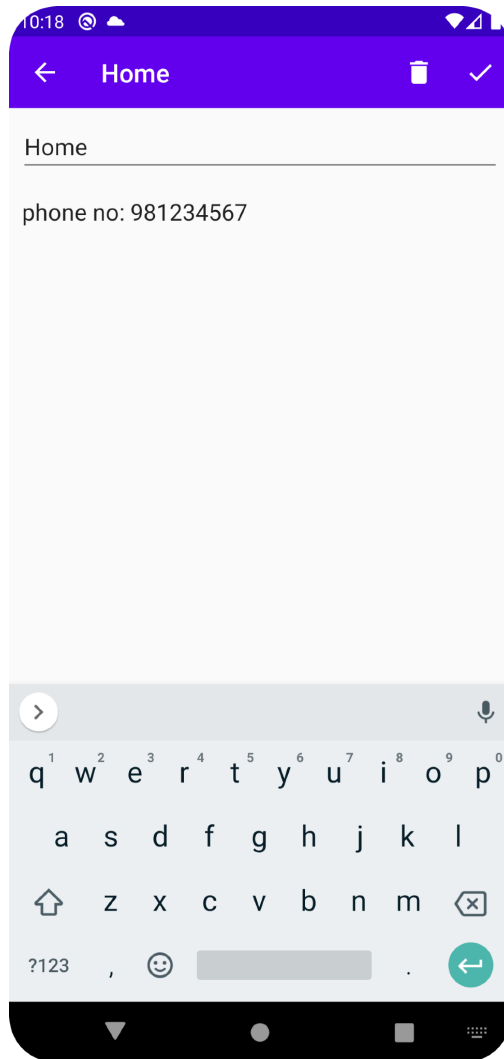
private void goToMain() {
    Intent i = new Intent(this,MainActivity.class);
    startActivity(i);
}

}
```

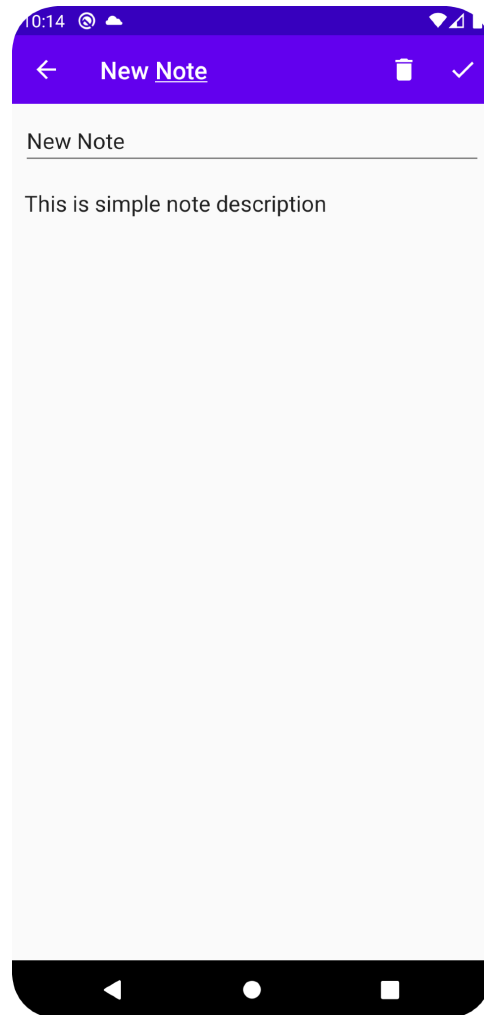
## 2.5 UI Interface



**Fig 1.1: Notes List**



**Fig 1.2: Edit Notes**



**Fig 1.4: Create Notes**

### **3. CONCLUSION**

Hence this project is beneficial for those who have busy schedule and want to track their work. This application has simple interface so that anyone can use it. User can easily create, read, update and delete their notes.