# (2024A) COMP-5450-AA - Mobile Midterm

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https://github.com/aayushparekhh/Midterm

### **QUESTION 1 - CALCULATOR APP**

### UI XML Code

```
<android.support.constraint.ConstraintLayout</pre>
   xmlns:app="http://schemas.android.com/apk/res-auto"
   xmlns:tools="http://schemas.android.com/tools"
   android:layout width="match parent"
   <TableLayout
       android:id="@+id/tableLayout"
        android:stretchColumns="0,1,2,3"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintHorizontal bias="0.0"
            android:layout width="match parent"
                android:layout height="@dimen/box size"
                android:background="@color/colorAccent"
                android:onClick="onClearClick"
```

```
android:layout height="@dimen/box size"
                android:background="@color/colorAccent"
                android:onClick="onOperatorClick"
                android:id="@+id/button pow"
                android:layout width="@dimen/box size"
                android:onClick="onOperatorClick"
                android:text="@string/button pow"
            <Button
                android:id="@+id/button plus"
                android:background="@color/colorAccent"
                android:onClick="onOperatorClick"
                android:text="@string/button plus"
            android:layout width="match parent"
                android:layout width="@dimen/box size"
                android:layout height="@dimen/box size"
                android:background="@drawable/button bg stroke"
                android:onClick="onNumClick"
android:textAppearance="@style/TextAppearance.AppCompat.Large" />
                android:id="@+id/button eight"
                style="@style/Widget.AppCompat.Button.Borderless"
```

```
android:layout width="@dimen/box size"
                android:background="@drawable/button bg stroke"
                android:text="@string/button 8"
android:textAppearance="@style/TextAppearance.AppCompat.Large" />
                style="@style/Widget.AppCompat.Button.Borderless"
                android:layout width="@dimen/box size"
                android:onClick="onNumClick"
android:textAppearance="@style/TextAppearance.AppCompat.Large" />
            <Button
                style="@style/Widget.AppCompat.Button.Borderless"
                android:layout width="@dimen/box size"
                android:layout height="@dimen/box size"
                android:onClick="onOperatorClick"
       </TableRow>
        <TableRow
            android:layout width="match parent"
            <Button
                android:id="@+id/button four"
                android:background="@drawable/button bg stroke"
                android:onClick="onNumClick"
                android:text="@string/button 4"
            <Button
                android:layout width="@dimen/box size"
                android:layout height="@dimen/box size"
                android:background="@drawable/button bg stroke"
```

```
android:onClick="onNumClick"
                android:id="@+id/button six"
                android:background="@drawable/button bg stroke"
                android:onClick="onNumClick"
                android:text="@string/button 6"
            <Button
                style="@style/Widget.AppCompat.Button.Borderless"
                android:background="@color/colorAccent"
                android:onClick="onOperatorClick"
                android:text="@string/button mul"
        <TableRow
            android:layout width="match parent"
                style="@style/Widget.AppCompat.Button.Borderless"
                android:layout height="@dimen/box size"
                android:background="@drawable/button bg stroke"
                android:onClick="onNumClick"
android:textAppearance="@style/TextAppearance.AppCompat.Large" />
                android:id="@+id/button two"
                android:layout width="@dimen/box size"
                android:background="@drawable/button bg stroke"
                android:onClick="onNumClick"
                android:text="@string/button 2"
```

```
android:id="@+id/button three"
                style="@style/Widget.AppCompat.Button.Borderless"
                android:layout width="@dimen/box size"
                android:background="@drawable/button bg stroke"
                android:onClick="onNumClick"
                android:id="@+id/button divide"
                android:layout height="@dimen/box size"
                android:background="@color/colorAccent"
                android:onClick="onOperatorClick"
                android:id="@+id/button dot"
                android:layout width="@dimen/box size"
                android:layout height="@dimen/box size"
                android:background="@drawable/button bg stroke"
                android:text="@string/button dot"
android:textAppearance="@style/TextAppearance.AppCompat.Large" />
            <Button
                android:id="@+id/button zero"
                android:layout width="@dimen/box size"
                android:background="@drawable/button bg stroke"
                android:onClick="onNumClick"
```

```
android:layout height="@dimen/box size"
                android:background="@color/colorPrimaryDark"
                android:onClick="onEqualsClick"
android:textAppearance="@style/TextAppearance.AppCompat.Large"
                android:id="@+id/button mod"
                android:onClick="onOperatorClick"
        </TableRow>
    </TableLayout>
    <ImageButton</pre>
        style="@style/Widget.AppCompat.Button.Borderless"
        android:textAppearance="@style/TextAppearance.AppCompat.Large"
        android:gravity="end"
        app:layout constraintEnd toEndOf="parent"
        <TextView
            android:id="@+id/input value 1"
```

```
android:baselineAligned="false"
            android:maxLength="12"
            android:maxLines="1"
        <TextView
            android:baselineAligned="false"
            android:maxLines="1"
            android:paddingLeft="2dp"
            android:textAlignment="center"
android:textAppearance="@style/TextAppearance.AppCompat.Display1"
            app:layout constraintEnd toStartOf="@+id/input value 2" />
        <TextView
            android:ellipsize="end"
            android:maxLines="1"
           android:textColor="@android:color/black"
```

```
</LinearLayout>
<LinearLavout
    android:layout marginStart="8dp"
    android:gravity="end"
    android:orientation="vertical"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toTopOf="parent">
    <TextView
        android:id="@+id/textView result"
        android:layout height="match parent"
        android:maxLines="1"
        android:textColor="@android:color/black"
</LinearLayout>
<LinearLayout
    android:layout width="0dp"
    android:gravity="end"
    android:orientation="vertical"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toBottomOf="@+id/linearLayout">
    <TextView
        android:layout height="wrap content"
```

### II. Main Activity Kotlin File

```
package me.mahakagg.calculator;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
import android.widget.TextView;
import android.widget.Toast;

/*
    * Author: Mahak Aggarwal
    * Last date modified: 26-09-2018
    * (C), All rights reserved, Mahak Aggarwal 2018
    *
    * App Icon -
        * credits to Font Awesome and MDBootstrap for the application logo
    * Link - https://mdbootstrap.com/tools/logo-generator-icons/
    * */

public class MainActivity extends AppCompatActivity {
    private Calculator mCalculator; // object of Calculator class
    private TextView mInputValuelTextView; // for TextView ID -
input_value_1
    private TextView mInputValue2TextView; // for TextView ID -
input_value_2
    private TextView mOperatorTextView; // for TextView ID -
input_operation
    private TextView mFinalResultTextView; // for TextView ID -
textView_result
```

```
private TextView mCompleteOperation; // for TextView ID -
        ADD, SUB, MUL, DIV, MOD, ROOT, POW, NULL
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        mInputValue2TextView = findViewById(R.id.input value 2); //
second number
//operation
final result
string containing the numbers and the operation
          Implementation of saved instance state
        if (savedInstanceState != null) {
mInputValue1TextView.setText(savedInstanceState.getString("First numbe
mInputValue2TextView.setText(savedInstanceState.getString("Second numb
savedInstanceState.getString("Operation string",
            number two = savedInstanceState.getDouble("Number two",
```

```
@Override
    protected void onSaveInstanceState(Bundle outState) {
        super.onSaveInstanceState(outState);
mInputValue2TextView.getText().toString());
    // method to check where to append the numbers (first or second
MAX CHARACTERS) {
            } else {
                MAX CHARACTERS = 10;
                Toast.makeText(this, "Cannot have more than 10
                MAX CHARACTERS++;
            if (mInputValue2TextView.getText().length() <</pre>
MAX CHARACTERS) {
            } else {
                MAX CHARACTERS = 10;
numbers", Toast.LENGTH LONG).show();
```

```
handle operations for numbers
public void onNumClick(View view) {
        onClearClick(view);
    switch (view.getId()) {
        case R.id.button one:
            selectTextViewToAppend("1");
        case R.id.button two:
            break;
            selectTextViewToAppend("3");
            selectTextViewToAppend("4");
            break;
        case R.id.button five:
            selectTextViewToAppend("6");
            break;
        case R.id.button seven:
            selectTextViewToAppend("7");
            break;
        case R.id.button eight:
            break;
        case R.id.button nine:
            break;
                if
                    mInputValue1TextView.append(".");
            } else {
```

```
} else {
            mInputValue2TextView.append(".");
default:
    break;
      handle operations for operators
    case R.id.button plus:
        mOperatorTextView.setText("+");
        break;
        mOperatorTextView.setText("-");
        mOperatorTextView.setText("x");
        break;
    case R.id.button divide:
        mOperatorTextView.setText("/");
        break;
    case R.id.button mod:
        operation string = operator.MOD.name();
        mOperatorTextView.setText("%");
        break;
        break;
    case R.id.button root:
        mOperatorTextView.setText("\sqrt{"});
        break;
    default:
        break;
```

```
operation string = operator.ROOT.name();
            mOperatorTextView.setText("\sqrt{}");
        else {
           Toast.makeText(this, "Enter first number before
   public void onEqualsClick(View view) {
          handle equals click
        } else {
            number one =
            number two =
            String operation;
                    operation =
mInputValue1TextView.getText().toString() +
                   break;
                case SUB:
mInputValue2TextView.getText().toString();
                    break;
                    operation =
getString(R.string.button mul) +
mInputValue2TextView.getText().toString();
```

```
mFinalResultTextView.setText(String.valueOf(mCalculator.division(numbe
                        operation =
                    } catch (IllegalArgumentException e) {
                        operation = "";
                        clearAll();
                    break;
                case MOD:
                    operation =
mInputValue1TextView.getText().toString() +
                case ROOT:
mFinalResultTextView.setText(String.valueOf(mCalculator.squareRoot(num
                    operation =
mInputValue1TextView.getText().toString() +
                    break;
                case POW:
                    operation =
mInputValue2TextView.getText().toString();
                    break;
                case NULL:
mFinalResultTextView.setText(getString(R.string.error));
                    operation = "";
                    break;
                default:
                    break;
```

```
clearAll();
         handle clear click
       clearAll();
       mFinalResultTextView.setText("");
       mCompleteOperation.setText("");
to reduce code duplication
       mInputValue2TextView.setText("");
       number two = 0;
   public void onBackspaceClick(View view) {
            @Override
                clearAll();
                return false;
            backspaceImplementation(mInputValue2TextView);
        } else {
            if (!mOperatorTextView.getText().toString().equals("")) {
            } else {
        view.setText(backspace);
```

III. Screenshot







13+7×3.5=

37.5

C



%









•

=







2500×2=

5,000





%









•

=

## QUESTION 2

### IV. UI XML Code

```
<?xml version="1.0" encoding="utf-8"?>
           <androidx.coordinatorlayout.widget.CoordinatorLayout</pre>
           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"
               tools:context=".MainActivity">
               <com.google.android.material.appbar.AppBarLayout</pre>
                   android:layout width="match parent"
                   android:layout height="wrap content"
                   android:theme="@style/AppTheme.AppBarOverlay">
                   <androidx.appcompat.widget.Toolbar</pre>
                       android:id="@+id/toolbar"
                       android:layout width="match parent"
                       android:layout height="?attr/actionBarSize"
                       android:background="?attr/colorPrimary"
                       app:popupTheme="@style/AppTheme.PopupOverlay"
                       app:title="@string/app name"
                       />
               </com.google.android.material.appbar.AppBarLayout>
               <include layout="@layout/content main" />
</androidx.coordinatorlayout.widget.CoordinatorLayout>
```

# V. Main Activity Kotlin File

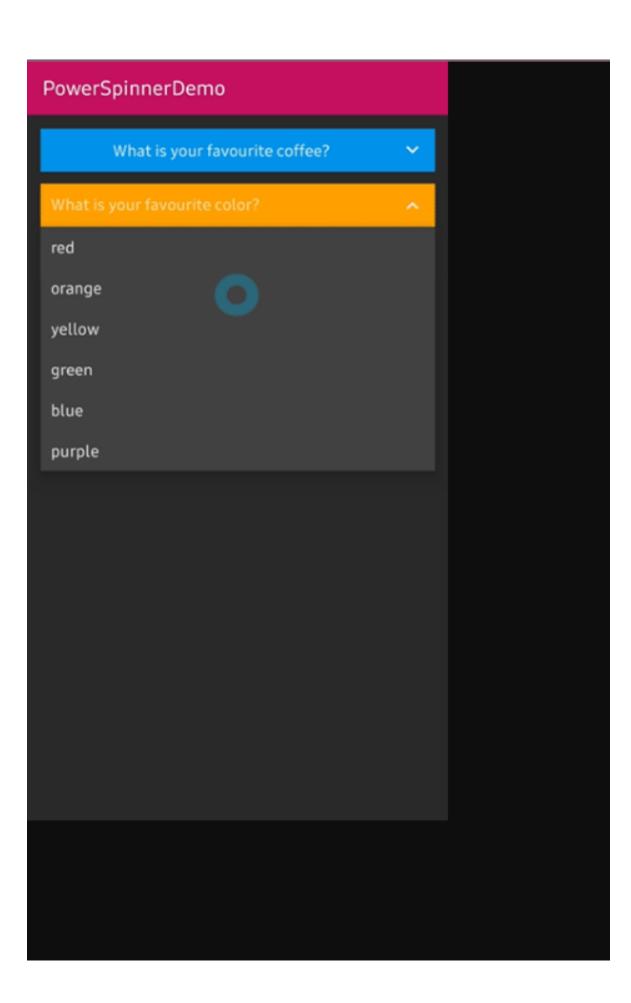
```
import android.os.Bundle
import android.view.View
import androidx.lifecycle.MutableLiveData
import
    lateinit var searchableSpinner: SearchableSpinner
    lateinit var searchableSpinner1: SearchableSpinner
    lateinit var searchableSpinner2: SearchableSpinner
    lateinit var adapterTag: SimpleArrayWithTagAdapter
        super.onCreate(savedInstanceState)
        searchableSpinner1 = findViewById(R.id.searchableSpinner1)
        searchableSpinner3 = findViewById(R.id.searchableSpinner3)
        getListData().observeForever {
            if (it.size > 0) {
                searchableSpinner.setAdapter(adapter)
                searchableSpinner.setOnItemSelectedListener(object :
OnItemSelectedListener {
                        Toast.makeText(
                            this@MainActivity,
```

```
Toast.LENGTH SHORT
                        Toast.makeText(this@MainActivity, "Nothing
Selected", Toast.LENGTH SHORT)
                            .show()
                searchableSpinner1.setOnItemSelectedListener(object :
OnItemSelectedListener {
OnItemSelectedListener {
                        Toast.makeText(
                            Toast.LENGTH SHORT
```

```
).show()
                searchableSpinner3.setOnItemSelectedListener(object :
OnItemSelectedListener {
                        ).show()
        val encodedString = MutableLiveData<ArrayList<String>>()
        return encodedString
```

}

# VI. Screenshot

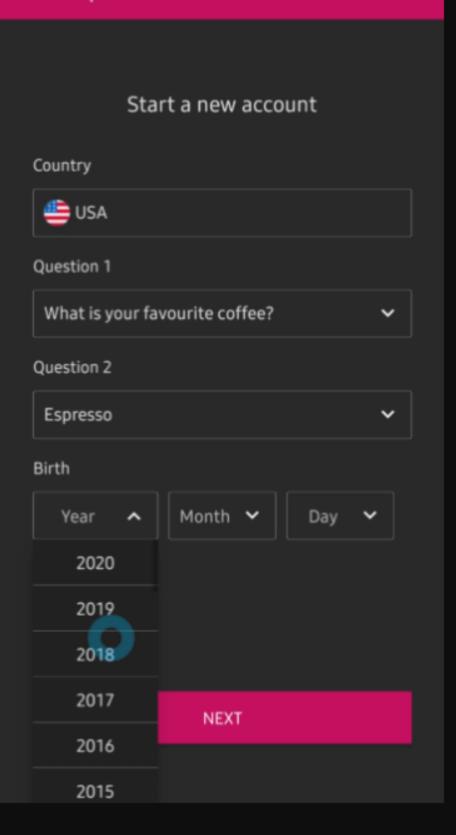


# Start a new account Country **S**USA Question 1 What is your favourite coffee? Question 2 Espresso Americano Cold Brew Espresso Latte Cappuccino Mocha Affogato Hot Chocolate

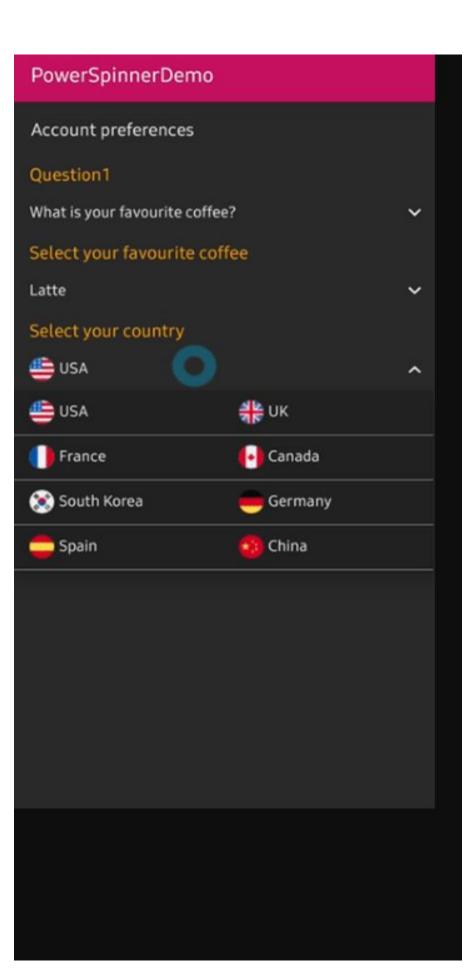
Why Kotlin?

# Start a new account

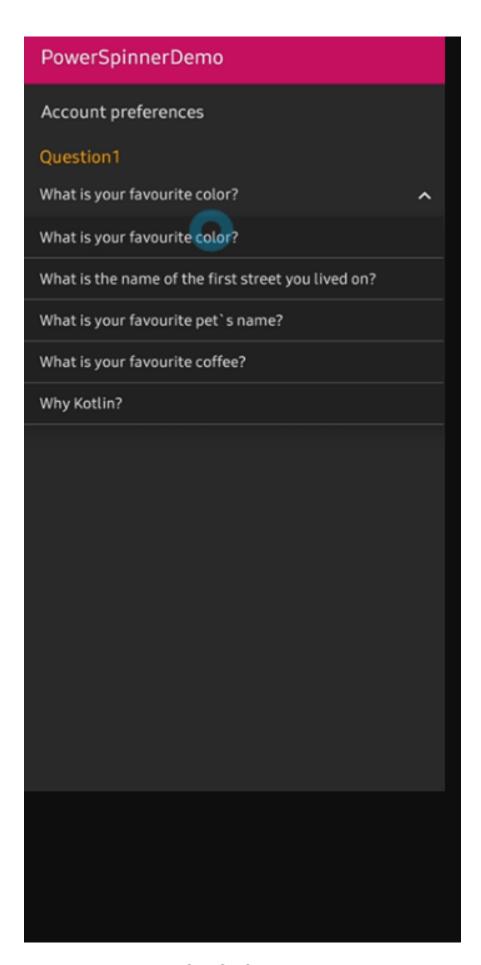
# Country USA Question 1 Select a question What is your favourite color? What is your favourite food? What is your favourite pet's name? What is your favourite coffee?



# Start a new account Country 🖺 USA Question 1 What is your favourite coffee? Question 2 What is your favourite coffee? Americano Cold Brew Espresso Latte Cappuccino Mocha What is your favourite coffee? Affoga Hot Chocolate



| PowerSpinnerDemo               |   |
|--------------------------------|---|
| Account preferences            |   |
| Question1                      |   |
| What is your favourite coffee? | ~ |
| Select your favourite coffee   |   |
| Americano                      | ^ |
| Americano                      |   |
| Cold Brew                      |   |
| Espresso                       |   |
| Latte                          |   |
| Cappuccino                     |   |
| Mocha                          |   |
| Affogato                       |   |
| Hot Chocolate                  |   |
|                                |   |
|                                |   |
|                                |   |
|                                |   |
|                                |   |
|                                |   |
|                                |   |



# and memory sharing

### VII. UI XML Code

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout</pre>
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:id="@+id/layout coordinator"
    android:layout width="match parent"
    android:layout height="match parent"
    android:focusableInTouchMode="true"
    tools:context="com.rafapps.simplenotes.NoteActivity">
    <ScrollView
        android:id="@+id/scroll view"
        android:layout width="match parent"
        android:layout height="match parent"
        android:fillViewport="true"
        tools:context="com.rafapps.simplenotes.NoteActivity"
        tools:showIn="@layout/activity note">
        <LinearLayout
            android:layout width="match parent"
            android:layout height="wrap content"
            android:orientation="vertical">
            <EditText
                android:id="@+id/et title"
                android:layout width="match parent"
                android:layout height="wrap content"
                android:ems="10"
                android:hint="@string/title"
                android:imeOptions="flagNoExtractUi"
                android:inputType="textCapWords"
                android:maxLength="36"
                android:paddingEnd="8dp"
                android:paddingStart="8dp"
                android:textCursorDrawable="@null"
                android:textStyle="bold"
                app:layout constraintLeft toLeftOf="parent"
                app:layout constraintTop toTopOf="parent" />
            <EditText
                android:id="@+id/et note"
                android:layout width="match parent"
                android:layout height="0dp"
```

android:layout weight="1"

### VIII. Main Activity Kotlin File

```
package com.rafapps.simplenotes;
import android.content.Context;
import android.content.DialogInterface;
import android.content.Intent;
import android.content.SharedPreferences;
import android.content.res.ColorStateList;
```

```
import android.graphics.Color;
import android.graphics.drawable.ColorDrawable;
import android.os.Bundle;
import android.preference.PreferenceManager;
import android.text.TextUtils;
import android.view.Menu;
import android.view.MenuItem;
import android.widget.EditText;
import androidx.annotation.ColorInt;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.content.ContextCompat;
import androidx.core.graphics.ColorUtils;
import
com.joaomgcd.taskerpluginlibrary.condition.TaskerPluginRunnerCondition
public class NoteActivity extends AppCompatActivity {
    private static final String EXTRA NOTE TITLE = "EXTRA NOTE TITLE";
    private boolean colourNavbar;
    private String title, note;
    private EditText noteText, titleText;
    private AlertDialog dialog;
```

```
private @ColorInt
    int colourPrimary, colourFont, colourBackground;
   public static Intent getStartIntent(Context context, String title)
        Intent intent = new Intent(context, NoteActivity.class);
       intent.putExtra(EXTRA NOTE TITLE, title);
       return intent;
   @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
       setContentView(R.layout.activity note);
       titleText = findViewById(R.id.et title);
       noteText = findViewById(R.id.et note);
        Intent intent = getIntent();
       String action = intent.getAction();
        String type = intent.getType();
       // If activity started from a share intent
        if (Intent.ACTION SEND.equals(action) && type != null) {
            if ("text/plain".equals(type)) {
                String sharedText =
intent.getStringExtra(Intent.EXTRA TEXT);
```

```
noteText.setText(sharedText);
                note = sharedText;
                title = "";
            }
        } else { // If activity started from the notes list
            title = intent.getStringExtra(EXTRA NOTE TITLE);
            if (title == null || TextUtils.isEmpty(title)) {
                title = "";
                note = "";
                noteText.requestFocus();
                if (getSupportActionBar() != null)
getSupportActionBar().setTitle(getString(R.string.new note));
            } else {
                titleText.setText(title);
                note = HelperUtils.readFile(NoteActivity.this, title);
                noteText.setText(note);
                if (getSupportActionBar() != null)
                    getSupportActionBar().setTitle(title);
getSettings (PreferenceManager.getDefaultSharedPreferences (NoteActivity
.this));
        applySettings();
```

```
@Override
public void onRestart() {
    super.onRestart();
    note = noteText.getText().toString().trim();
    if (getCurrentFocus() != null)
        getCurrentFocus().clearFocus();
}
@Override
public void onPause() {
    if (!isChangingConfigurations()) {
       saveFile();
    if (dialog != null && dialog.isShowing())
        dialog.dismiss();
    dialog = null;
    super.onPause();
@Override
public void onBackPressed() {
    super.onBackPressed();
```

```
public boolean onSupportNavigateUp() {
        onBackPressed();
       return true;
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        getMenuInflater().inflate(R.menu.menu note, menu);
       return true;
    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        int id = item.getItemId();
        if (id == R.id.btn undo) {
            noteText.setText(note);
            noteText.setSelection(noteText.getText().length());
            return (true);
        if (id == R.id.btn share) {
            Intent sendIntent = new Intent();
            sendIntent.setAction(Intent.ACTION SEND);
            sendIntent.putExtra(Intent.EXTRA TEXT,
noteText.getText().toString());
            sendIntent.setType("text/plain");
```

```
startActivity(Intent.createChooser(sendIntent,
getString(R.string.share to)));
            return (true);
        if (id == R.id.btn delete) {
            dialog = new AlertDialog.Builder (NoteActivity.this,
R.style.AlertDialogTheme)
                    .setTitle(getString(R.string.confirm delete))
.setMessage(getString(R.string.confirm delete text))
                    .setPositiveButton(getString(R.string.yes), new
DialogInterface.OnClickListener() {
                        public void onClick(DialogInterface dialog,
int which) {
                            if
(HelperUtils.fileExists(NoteActivity.this, title)) {
                                deleteFile(title +
HelperUtils.TEXT FILE EXTENSION);
                            title = "";
                            note = "";
                            titleText.setText(title);
                            noteText.setText(note);
                            finish();
                    })
                    .setNegativeButton(getString(R.string.no), new
DialogInterface.OnClickListener() {
```

```
public void onClick(DialogInterface dialog,
int which) {
                    }
                   } )
.setIcon(ContextCompat.getDrawable(getApplicationContext(),
R.drawable.ic delete white 24dp))
                    .show();
            if (dialog.getWindow() != null) {
dialog.getWindow().getDecorView().setBackgroundColor(colourPrimary);
dialog.getButton(DialogInterface.BUTTON POSITIVE).setTextColor(Color.W
HITE);
dialog.getButton(DialogInterface.BUTTON NEGATIVE).setTextColor(Color.W
HITE);
           return (true);
       return (super.onOptionsItemSelected(item));
    }
   private void getSettings(SharedPreferences preferences) {
       colourPrimary =
preferences.getInt(HelperUtils.PREFERENCE COLOUR PRIMARY,
ContextCompat.getColor(NoteActivity.this, R.color.colorPrimary));
       colourFont =
preferences.getInt(HelperUtils.PREFERENCE COLOUR FONT, Color.BLACK);
```

```
colourBackground =
preferences.getInt(HelperUtils.PREFERENCE COLOUR BACKGROUND,
Color.WHITE);
       colourNavbar =
preferences.getBoolean(HelperUtils.PREFERENCE COLOUR NAVBAR, false);
   private void applySettings() {
        HelperUtils.applyColours (NoteActivity.this, colourPrimary,
colourNavbar);
        // Set text field underline colour
noteText.setBackgroundTintList(ColorStateList.valueOf(colourPrimary));
titleText.setBackgroundTintList(ColorStateList.valueOf(colourPrimary))
        // Set actionbar and background colour
findViewById(R.id.scroll view).setBackgroundColor(colourBackground);
        if (getSupportActionBar() != null)
            getSupportActionBar().setBackgroundDrawable(new
ColorDrawable(colourPrimary));
        // Set font colours
        titleText.setTextColor(colourFont);
        noteText.setTextColor(colourFont);
        // Set hint colours
```

```
titleText.setHintTextColor(ColorUtils.setAlphaComponent(colourFont,
120));
noteText.setHintTextColor(ColorUtils.setAlphaComponent(colourFont,
120));
   }
   private void saveFile() {
        // Get current title and note
        String newTitle =
titleText.getText().toString().trim().replace("/", " ");
        String newNote = noteText.getText().toString().trim();
        // Check if title and note are empty
        if (TextUtils.isEmpty(newTitle) && TextUtils.isEmpty(newNote))
           return;
        // Check if title and note are unchanged
        if (newTitle.equals(title) && newNote.equals(note)) {
           return;
        // Get file name to be saved if the title has changed or if it
is empty
        if (!title.equals(newTitle) || TextUtils.isEmpty(newTitle)) {
            newTitle = newFileName(newTitle);
```

```
titleText.setText(newTitle);
        }
        // Save the file with the new file name and content
        HelperUtils.writeFile(NoteActivity.this, newTitle, newNote);
        // If the title is not empty and the file name has changed
then delete the old file
        if (!TextUtils.isEmpty(title) && !newTitle.equals(title)) {
            deleteFile(title + HelperUtils.TEXT FILE EXTENSION);
        // Set the title to be the new saved title for when the home
button is pressed
        title = newTitle;
        // Send Tasker event
        TaskerPluginRunnerCondition.Companion.requestQuery(
                this,
                TaskerEventNoteUpdateActivity.class,
                new NoteOutput(newTitle, newNote)
       ) ;
   private String newFileName(String name) {
        // If it is empty, give it a default title of "Note"
        if (TextUtils.isEmpty(name)) {
```

```
name = getString(R.string.note);
        }
        // If the name already exists, append a number to it
        if (HelperUtils.fileExists(NoteActivity.this, name)) {
            int i = 1;
           while (true) {
               if (!HelperUtils.fileExists(NoteActivity.this, name +
" (" + i + ")") || title.equals(name + " (" + i + ")")) {
                    name = (name + " (" + i + ")");
                    break;
                i++;
       return name;
```

#### **Notes**

## Finish The App for #30DaysOfKotlin

Make a beautiful Looking Material Design Notes Apps

### **Shopping List**

- Carrots //
- Potatoes
- Milk
- Apples 🍏

# Notes from client meeting

We need to rethink how we handle user experience and security issues. Mario is going to circle back with Gen and chat about the latest engineering estimates

Edozie is working on..

### Don't Forget

Sent an Email to Ram. Call the client. Buy Cake when Going Home. Pay the Bills.

Surprise Party for Surya Prakash.

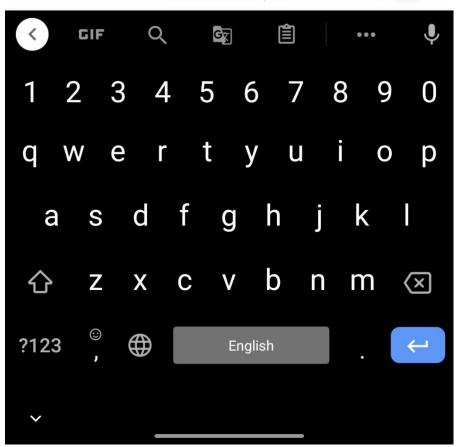


### Finish The App for #30DaysOfKotlin

Make a beautiful Looking Material Design Notes Apps.



Edited 08:23 pm



#### **Notes**

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