

## MainActivity.java

```
package com.example.map_project;

import androidx.annotation.Nullable;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;

import android.content.Context;
import android.content.DialogInterface;
import android.content.Intent;
import android.content.SharedPreferences;
import android.database.Cursor;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;

import com.google.android.material.floatingactionbutton.FloatingActionButton;

import java.util.Map;
import java.util.Set;

public class MainActivity extends AppCompatActivity {
    FloatingActionButton fab1,fab2,fab3;
    Intent camact;
    Intent dbact;
    public static boolean budSet=false;
    View vdialog;
    public static int bud;
    AlertDialog.Builder ab;
    SharedPreferences sf;
    SharedPreferences.Editor et;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        getSupportActionBar().hide();
        sf = getSharedPreferences("MyPref", Context.MODE_PRIVATE);
        et = sf.edit();
        bud=sf.getInt("bud",0);
        budSet=sf.getBoolean("budset",false);
        fab1=findViewById(R.id.budget);
```

```

fab2=findViewById(R.id.cam);
fab3=findViewById(R.id.data);
fab2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        camact=new Intent(getApplicationContext(),CAM.class);
        startActivity(camact);
    }
});
fab3.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        dbact=new Intent(getApplicationContext(),DBACT.class);
        startActivity(dbact);
    }
});
fab1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {

        if(!budSet){
            vdialog= getLayoutInflater().inflate(R.layout.buddialog,null);
            ab =new AlertDialog.Builder(MainActivity.this);
            ab.setTitle("Set Budget");
            ab.setView(vdialog);
            ab.setPositiveButton("OK", new DialogInterface.OnClickListener() {
                @Override
                public void onClick(DialogInterface dialog, int which) {
                    EditText edtbud=vdialog.findViewById(R.id.budtext);
                    bud=Integer.parseInt(edtbud.getText().toString());
                    budSet=true;
                    et.putInt("bud",bud);
                    et.putBoolean("budset",budSet);
                    et.commit();

                }
            });
            AlertDialog ob=ab.create();
            ob.show();

        }
        else{

            final AlertDialog.Builder ab1 =new AlertDialog.Builder(MainActivity.this);

```



```

super.onCreate(savedInstanceState);
setContentView(R.layout.activity_dbact);
ListView lts= findViewById(R.id.list);
db=openOrCreateDatabase("DetailsDB", Context.MODE_PRIVATE, null);

db.execSQL("CREATE TABLE IF NOT EXISTS Details(name VARCHAR,price VARCHAR,_id
VARCHAR);");
c=db.rawQuery("SELECT * FROM Details", null);
if(c!=null){
    Toast.makeText(this,"Null C"+c.getCount(),Toast.LENGTH_LONG).show();
}

myAdapter mc = new myAdapter();
Toast.makeText(this,"MCA",Toast.LENGTH_LONG).show();
lts.setAdapter(mc);
}
class myAdapter extends BaseAdapter{

    @Override
    public int getCount() {
        return c.getCount();
    }

    @Override
    public Object getItem(int position) {
        return null;
    }

    @Override
    public long getItemId(int position) {
        return 0;
    }

    @Override
    public View getView(int position, View convertView, ViewGroup parent) {
        convertView=getLayoutInflater().inflate(R.layout.custom,null);
        TextView textVwn=(TextView)convertView.findViewById(R.id.name);
        TextView textVwp=(TextView)convertView.findViewById(R.id.price);
        TextView textVwd=convertView.findViewById(R.id.date);
        c.moveToPosition(position);
        textVwn.setText(""+c.getString(0));
        textVwp.setText(""+c.getString(1));
        textVwd.setText(""+c.getString(2));
    }
}

```

```

        return convertView;
    }
}

class MCA extends CursorAdapter{
    public MCA(Context c,Cursor s){
        super(c,s,0);
    }

    @Override
    public View newView(Context context, Cursor cursor, ViewGroup parent) {
        return getLayoutInflater().from(context).inflate(R.layout.custom, parent, false);
    }

    @Override
    public void bindView(View view, Context context, Cursor cursor) {
        TextView textViewn=view.findViewById(R.id.name);
        TextView textViewp=view.findViewById(R.id.price);
        TextView textViewd=view.findViewById(R.id.date);
        String name = cursor.getString(0);
        String date = cursor.getString(1);
        String price=cursor.getString(2);
        textViewn.setText(name);
        textViewp.setText(price);
        textViewd.setText(date);
    }
}

```

### CorrectImgData.java

```

package com.example.map_project;

import androidx.annotation.Nullable;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;

import android.content.Context;
import android.content.DialogInterface;

```

```

import android.content.Intent;
import android.content.SharedPreferences;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;

import com.google.android.material.floatingactionbutton.FloatingActionButton;

import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.Map;
import java.util.Set;

import static com.example.map_project.MainActivity.bud;
import static com.example.map_project.MainActivity.budSet;

public class CorrectImgData extends AppCompatActivity {
    EditText name,price;
    Bundle b;
    public SQLiteDatabase db;
    Intent back;
    String date;
    FloatingActionButton Insert;
    SharedPreferences sf;
    SharedPreferences.Editor et;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_correct_img_data);
        sf = getSharedPreferences("MyPref", Context.MODE_PRIVATE);
        et = sf.edit();
        name= findViewById(R.id.name);
        price= findViewById(R.id.price);
        Insert=findViewById(R.id.insert);
        b= getIntent().getBundleExtra("txt");
        String asd[]=b.getString("data").split("\n");

        name.setText(""+asd[0]);
        String pt;
        String data= b.getString("data");
        pt=getTotal(data,"total");
    }

```

```

String ts[]=pt.split("\\.");
int spent=Integer.parseInt(ts[0]);
if(spent<bud) {
    bud = bud - spent;

    et.putInt("bud",bud);
    et.putBoolean("budset",budSet);
    et.commit();
}else{
    AlertDialog.Builder builder=new AlertDialog.Builder(CorrectImgData.this);
    builder.setTitle("!!!!");
    builder.setMessage("OUT OF BUDGET");
    builder.setPositiveButton("OK", new DialogInterface.OnClickListener() {
        @Override
        public void onClick(DialogInterface dialog, int which) {

        }
    });
    AlertDialog ob=builder.create();
    ob.show();
    budSet=false;
    et.putInt("bud",bud);
    et.putBoolean("budset",budSet);
    et.commit();
}
price.setText(""+pt);
SimpleDateFormat sdf = new SimpleDateFormat("yyyy.MM.dd G 'at' HH:mm:ss z");
date = sdf.format(new Date());
db=openOrCreateDatabase("DetailsDB", Context.MODE_PRIVATE, null);
db.execSQL("CREATE TABLE IF NOT EXISTS Details(name VARCHAR,price VARCHAR,date
VARCHAR);");

Insert.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(android.view.View view) {
        if(name.getText().toString().trim().length()==0 ||
            price.getText().toString().trim().length()==0)
        {
            Toast.makeText(getBaseContext(),"Error Please enter all
values",Toast.LENGTH_SHORT).show();
            return;
        }
        db.execSQL("INSERT INTO Details VALUES('"+name.getText()+"','"+price.getText()+"
','"+date+"');");
    }
}

```

```

        Toast.makeText(getBaseContext(), "success", Toast.LENGTH_SHORT).show();
        back=new Intent(getApplicationContext(),MainActivity.class);
        startActivity(back);

    }

});

}

public String getTotal(String data,String toSearch){
    String ans="";
    String temp="";
    temp= data.trim();
    String found="";
    String[] arr=data.split("\n");
    int lt= data.lastIndexOf(toSearch);
    for(int i=0;i<arr.length;i++){
        if(arr[i].equalsIgnoreCase(toSearch)){
            lt=i;
        }
    }
    found= arr[arr.length-1];
    Toast.makeText(getApplicationContext(),"Value of lt--
>" +arr[lt],Toast.LENGTH_LONG).show();
    return found;
}

}

```

## CAM.java

```

package com.example.map_project;

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.graphics.Bitmap;
import android.graphics.BitmapFactory;
import android.os.Bundle;

```



```
import android.provider.MediaStore;
import android.widget.ImageView;
import android.widget.Toast;
```

```
import com.camerakit.CameraKitView;
import com.google.android.gms.tasks.OnFailureListener;
import com.google.android.gms.tasks.OnSuccessListener;
import com.google.firebase.ml.vision.FirebaseVision;
import com.google.firebase.ml.vision.common.FirebaseVisionImage;
import com.google.firebase.ml.vision.common.FirebaseVisionImageMetadata;
import com.google.firebase.ml.vision.text.FirebaseVisionCloudTextRecognizerOptions;
import com.google.firebase.ml.vision.text.FirebaseVisionText;
import com.google.firebase.ml.vision.text.FirebaseVisionTextRecognizer;
```

```
import java.util.ArrayList;
```

```
public class CAM extends AppCompatActivity {
    CameraKitView mainCamera;
    FirebaseVisionImage textImg;
    ImageView imageView;
    FirebaseVisionImageMetadata txtmetadata;
    FirebaseVisionTextRecognizer textRecognizer;
    FirebaseVisionImageMetadata.Builder txb = new FirebaseVisionImageMetadata.Builder();
    FirebaseVisionCloudTextRecognizerOptions txrOptions;
    ArrayList<String> languages= new ArrayList<>();
```

```
@Override
```

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_cam);
    txb.setFormat(FirebaseVisionImageMetadata.IMAGE_FORMAT_NV21);
    txb.setHeight(500);
    txb.setWidth(500);
    txb.setRotation(0);
    imageView=findViewById(R.id.imgv);
    txtmetadata = txb.build();
    languages.add("en");
    languages.add("hi");
    textRecognizer = FirebaseVision.getInstance().getCloudTextRecognizer();
    Intent takePictureIntent = new Intent(MediaStore.ACTION_IMAGE_CAPTURE);
    if (takePictureIntent.resolveActivity(getPackageManager()) != null) {
        startActivityForResult(takePictureIntent, 1);
    }
}
```

```

}
@Override
protected void onStart() {
    super.onStart();
}

@Override
protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {
    super.onActivityResult(requestCode, resultCode, data);
    if (requestCode == 1 && resultCode == RESULT_OK) {
        Bundle extras = data.getExtras();
        Bitmap imageBitmap = (Bitmap) extras.get("data");
        imageView.setImageBitmap(imageBitmap);

        textImg = FirebaseVisionImage.fromBitmap(imageBitmap);
        textRecognizer = FirebaseVision.getInstance().getOnDeviceTextRecognizer();
        textRecognizer.processImage(textImg).addOnSuccessListener(new
OnSuccessListener<FirebaseVisionText>() {
            @Override
            public void onSuccess(FirebaseVisionText firebaseVisionText) {
                Intent nextAct = new Intent(getApplicationContext(),CorrectImgData.class);
                Bundle b = new Bundle();
                b.putString("data",firebaseVisionText.getText());
                nextAct.putExtra("txt",b);
                startActivity(nextAct);

                Toast.makeText(getApplicationContext(),firebaseVisionText.getText(),Toast.LENGTH_LONG).sh
ow();
            }
        }).addOnFailureListener(new OnFailureListener() {
            @Override
            public void onFailure(@NonNull Exception e) {
                e.printStackTrace();
                Toast.makeText(getApplicationContext(),"Failed",Toast.LENGTH_LONG).show();
            }
        });

        Toast.makeText(getApplicationContext(),"Success",Toast.LENGTH_LONG).show();
    }
    else{
        Toast.makeText(getApplicationContext(),"Failed",Toast.LENGTH_LONG).show();
    }
}

```

```

@Override
protected void onResume() {
    super.onResume();
}

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

@Override
protected void onStop() {
    super.onStop();
}

@Override
protected void onDestroy() {
    super.onDestroy();
}

@Override
public void onRequestPermissionsResult(int requestCode, String[] permissions, int[]
grantResults) {
    super.onRequestPermissionsResult(requestCode, permissions, grantResults);
    mainCamera.onRequestPermissionsResult(requestCode, permissions, grantResults);
}
}

```

### builddialog.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical" android:layout_width="match_parent"
    android:layout_height="match_parent">
    <EditText
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:id="@+id/budtext"
        android:hint="Budget"
        android:inputType="number"

```

/>

</LinearLayout>

### Custom.xml

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

    >
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/name"
    />
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/price"
        android:layout_marginLeft="50dp"
    />
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/date"
        android:layout_marginLeft="50dp"
    />

</LinearLayout>
```

### Activity correct img data.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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=".CorrectImgData"
    android:background="@drawable/bg"
    android:orientation="horizontal"
    >
    <EditText
        android:layout_width="100dp"
        android:layout_height="wrap_content"
        android:id="@+id/name"
        android:layout_marginLeft="90dp"
        android:layout_marginTop="275dp"
    />
    <EditText
        android:layout_width="100dp"
        android:layout_height="wrap_content"
        android:id="@+id/price"
        android:layout_marginLeft="50dp"
        android:layout_marginTop="275dp"
    />
    <com.google.android.material.floatingactionbutton.FloatingActionButton
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:backgroundTint="#FFFFFF"
        app:srcCompat="@drawable/ic_arrow_forward_black_24dp"
        android:layout_gravity="center"
        android:id="@+id/insert"
    />

</LinearLayout>

```

## App(Gradle File)

apply plugin: 'com.android.application'

```

android {
    compileSdkVersion 28
    buildToolsVersion "29.0.1"
    defaultConfig {
        applicationId "com.example.map_project"
        android.defaultConfig.vectorDrawables.useSupportLibrary = true
        minSdkVersion 16
        targetSdkVersion 28
    }
}

```

```

        multiDexEnabled true
        versionCode 1
        versionName "1.0"
        testInstrumentationRunner "androidx.test.runner.AndroidJUnitRunner"
    }
    buildTypes {
        release {
            minifyEnabled false
            proguardFiles getDefaultProguardFile('proguard-android-optimize.txt'), 'proguard-
rules.pro'
        }
    }
}

dependencies {
    implementation fileTree(dir: 'libs', include: ['*.jar'])
    implementation 'androidx.appcompat:appcompat:1.0.2'
    implementation 'androidx.constraintlayout:constraintlayout:1.1.3'
    implementation 'com.android.support:design:28.0.0'
    implementation 'com.camerakit:camerakit:1.0.0-beta3.11'
    implementation 'com.camerakit:jpegkit:0.1.0'
    implementation 'org.jetbrains.kotlin:kotlin-stdlib-jdk7:1.3.0'
    implementation 'org.jetbrains.kotlinx:kotlinx-coroutines-android:1.0.0'
    implementation 'com.google.firebase:firebase-analytics:17.1.0'
    implementation 'com.google.firebase:firebase-ml-vision:23.0.0'
    implementation 'com.google.firebase:firebase-auth:19.0.0'
    implementation 'com.google.firebase:firebase-firestore:21.0.0'
    implementation 'com.android.support:multidex:1.0.3'
    testImplementation 'junit:junit:4.12'
    androidTestImplementation 'androidx.test:runner:1.1.1'
    androidTestImplementation 'androidx.test.espresso:espresso-core:3.1.1'
}
apply plugin: 'com.google.gms.google-services'

```

## MAP\_PROJECT(Gradle File)

```

buildscript {
    repositories {
        google()
        jcenter{

```

```

    }
    dependencies {
        classpath 'com.android.tools.build:gradle:3.5.1'
        classpath 'com.google.gms:google-services:4.2.0'
    }
}

allprojects {
    repositories {
        google()
        jcenter()
    }
}

task clean(type: Delete) {
    delete rootProject.buildDir
}

```

## AndroidManifest.xml

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.map_project">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".DBACT"></activity>
        <activity android:name=".CorrectImgData" />
        <activity android:name=".CAM" />
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

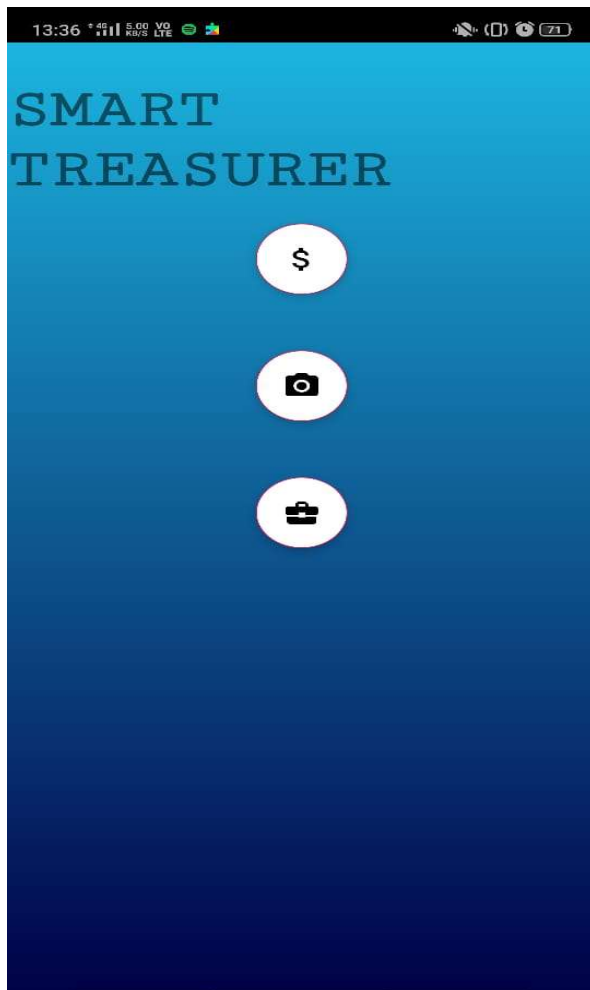
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>

```

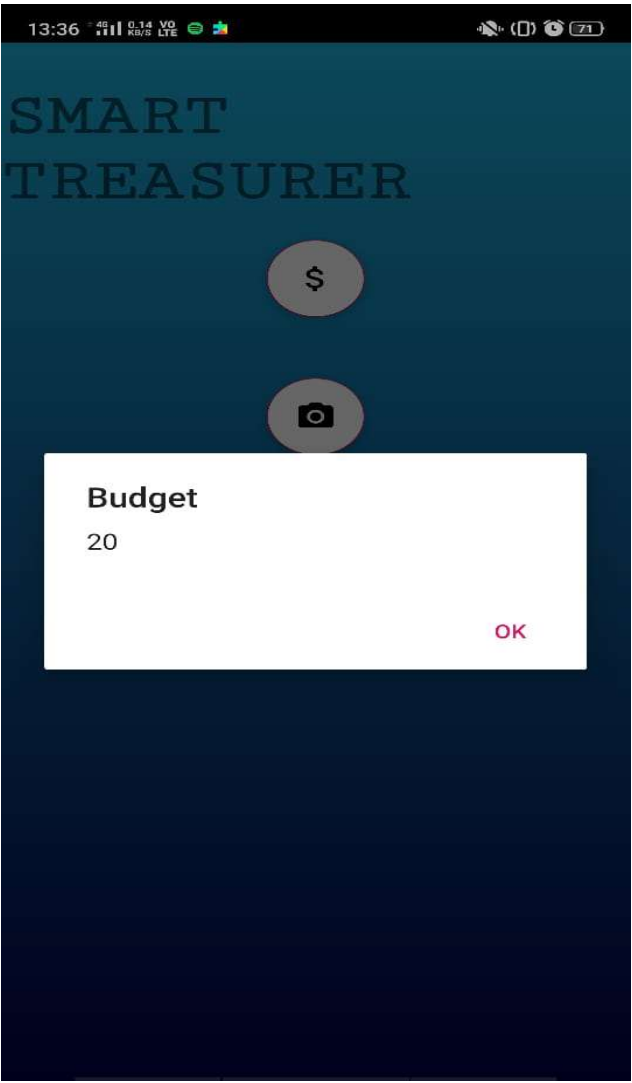
</application>

</manifest>

**Screenshots from application:-**







13:37 4G 1.00 KB/s LTE



## MAP\_PROJECT

FRULLATO	80.00	2019.10.09 AD at 16:49:22 GMT+05:30
FRULLATO	80.00	2019.10.09 AD at 17:37:19 GMT+05:30
FRULLATO	80.00	2019.10.09 AD at 17:38:53 GMT+05:30
FRULLATO	80.00	2019.10.09 AD at 17:45:34 GMT+05:30
FRULLATO	80.00	2019.10.09 AD at 17:46:00 GMT+05:30

MCA