**基于Android的记账软件**

1. **系统的需求分析**

**1.1系统目标**

目前网络上各种财务软件数不胜数，较为出名的有鲨鱼记账、薄荷记账、等，这些记账软件都各有千秋。本程序旨在开发一款家庭转用的简单实用、易操作的一款记账软件，功能齐全，操作方面，能够满足家庭记账的大部分需求。

**1.2功能需求**

该记账软件应该具有以下功能：

日常收入：作为一款家庭记账软件，用户需要记录日常收入。

日常支出：作为一款家庭记账软件，用户需要记录日常支出；

收支列表：用户可以查看一段时间内的收入和指出情况。

预算列表：用户可以根据预算列表来实现抽入或支出。

添加：用户可以提前对下个时间段的收入或指出做一个计划，有利于用户理财；

1. **系统的概要设计**

该软件是一款是基于Android开发的手机应用，简单实用，易于上手。

* 1. 运行环境

1.Android手机：主频在1Ghz及以上，内存为512MB以上，系统版本为Android4.4.2及以上。

2.在win10 系统下安装了Android Studio.

* 1. 数据库表设计

notes表

|  |  |  |
| --- | --- | --- |
| 列名 | 数据类型 | 是否允许空 |
| Id | integer | 不允许 |
| Name | text | 不允许 |
| Content | text | 不允许 |
| Date | text | 不允许 |

media（vote）inorout,money,style,fenlei,time,note

|  |  |  |  |
| --- | --- | --- | --- |
| 列名 | 数据类型 | 是否允许空 | 意义 |
| inorout | text | 不允许 | 类型 |
| money | double | 不允许 | 金额 |
| style | text | 不允许 | 方式 |
| fenlei | text | 不允许 | 用途或来源 |
| time | date | 不允许 | 日期 |
| note | text | 允许 | 备注 |

# 设计与实现部分

## **Screenshot_2019-06-18-01-19-41-483_com.example.pe3.1home界面**

关键代码：

<?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" >

<!-- 收入 -->

<LinearLayout

android:id="@+id/llincome"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="50dp"

android:layout\_marginTop="40dp"

android:gravity="center"

android:orientation="vertical"

>

<ImageView

android:id="@+id/ivHomeIncome"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:src="@drawable/myincome"

/>

<TextView

android:id="@+id/tvHomeIncome"

style="@style/HomeTextStyle"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/home\_income"

/>

</LinearLayout>

<!-- 支出 -->

<LinearLayout

android:id="@+id/lloutcome"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="70dp"

android:layout\_marginTop="40dp"

android:layout\_toRightOf="@+id/llincome"

android:gravity="center"

android:orientation="vertical"

>

<ImageView

android:id="@+id/ivHomeOutcome"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:src="@drawable/mypay"

/>

<TextView

android:id="@+id/tvHomeOutcome"

style="@style/HomeTextStyle"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/home\_outcome"

/>

</LinearLayout>

<!-- 列表 -->

<LinearLayout

android:id="@+id/lllist"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/llincome"

android:layout\_marginLeft="50dp"

android:layout\_marginTop="50dp"

android:gravity="center"

android:orientation="vertical"

>

<ImageView

android:id="@+id/ivHomeList"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:src="@drawable/mymemo"

/>

<TextView

android:id="@+id/tvHomeList"

style="@style/HomeTextStyle"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/home\_list"

/>

</LinearLayout>

<!-- 设置 -->

<LinearLayout

android:id="@+id/llsetting"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/lloutcome"

android:layout\_toRightOf="@+id/lllist"

android:layout\_marginLeft="70dp"

android:layout\_marginTop="50dp"

android:gravity="center"

android:orientation="vertical"

>

<ImageView

android:id="@+id/ivHomeSetting"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:src="@drawable/memo"

/>

<TextView

android:id="@+id/tvHomeSetting"

style="@style/HomeTextStyle"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/home\_setting"

/>

</LinearLayout>

<!-- 分类-->

<LinearLayout

android:id="@+id/llfenlei"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/lllist"

android:layout\_marginLeft="50dp"

android:layout\_marginTop="50dp"

android:gravity="center"

android:orientation="vertical"

>

<ImageView

android:id="@+id/ivHomeFenlei"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:src="@drawable/data"

/>

<TextView

android:id="@+id/tvHomeFenlei"

style="@style/HomeTextStyle"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/home\_fenlei"

/>

</LinearLayout>

<!-- 模板 -->

<LinearLayout

android:id="@+id/llmodle"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/llsetting"

android:layout\_marginLeft="70dp"

android:layout\_marginTop="50dp"

android:layout\_toRightOf="@+id/llfenlei"

android:gravity="center"

android:orientation="vertical"

>

<ImageView

android:id="@+id/ivHomeModle"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:src="@drawable/memo"

/>

<TextView

android:id="@+id/tvHomeModle"

style="@style/HomeTextStyle"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

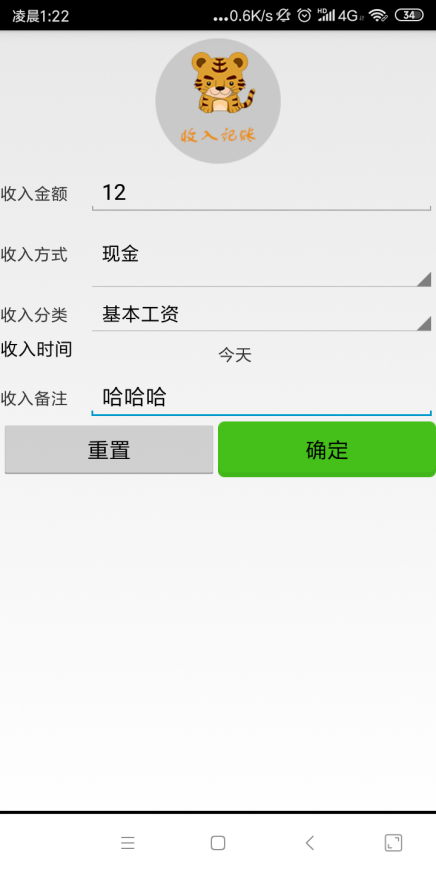
android:text="@string/home\_modle"

/>

</LinearLayout>

</RelativeLayout>

3.2添加日常收入



关键代码：

1. 连接数据库

package com.example.feigou.db;

import android.content.Context;

import android.database.sqlite.SQLiteDatabase;

import android.database.sqlite.SQLiteException;

public class ComeModle {

MyDBHelper dbHelper;

SQLiteDatabase sqlite;

public ComeModle(Context context) {

dbHelper=new MyDBHelper(context,"jizhang.db",null,2);

try {

//打开数据库

sqlite=dbHelper.getWritableDatabase();

}catch(Exception e) {

sqlite=dbHelper.getReadableDatabase();

}

}

//保存数据

public boolean save(String string,String money,String sStyle,String sFenlei,String strTime,String note) {

try {

String insertSQL = "insert into come(inorout,money,style,fenlei,time,note) values(?,?,?,?,?,?)";

sqlite.execSQL(insertSQL, new Object[] { string, money, sStyle, sFenlei, strTime, note });

return true;

} catch (SQLiteException e) {

e.printStackTrace();

return false;

}

}

}

package com.example.feigou.db;

import android.content.Context;

import android.database.sqlite.SQLiteDatabase;

import android.database.sqlite.SQLiteException;

public class ComeModle {

MyDBHelper dbHelper;

SQLiteDatabase sqlite;

public ComeModle(Context context) {

dbHelper=new MyDBHelper(context,"jizhang.db",null,2);

try {

//打开数据库

sqlite=dbHelper.getWritableDatabase();

}catch(Exception e) {

sqlite=dbHelper.getReadableDatabase();

}

}

//保存数据

public boolean save(String string,String money,String sStyle,String sFenlei,String strTime,String note) {

try {

String insertSQL = "insert into come(inorout,money,style,fenlei,time,note) values(?,?,?,?,?,?)";

sqlite.execSQL(insertSQL, new Object[] { string, money, sStyle, sFenlei, strTime, note });

return true;

} catch (SQLiteException e) {

e.printStackTrace();

return false;

}

}

}

1. 日常收入，输入收入金额，收入方式，收入分类，收入时间，收入备注。然后把信息存储到数据库中。

package com.example.feigou.test;

import javax.security.auth.PrivateCredentialPermission;

import com.example.feigou.activity.MainActivity;

import com.example.feigou.db.ComeModle;

import com.example.feigou.db.MyDBHelper;

import com.example.personmoney.R;

import android.app.Activity;

import android.content.Intent;

import android.database.sqlite.SQLiteDatabase;

import android.os.Bundle;

import android.text.Editable;

import android.text.InputType;

import android.text.TextWatcher;

import android.text.format.Time;

import android.view.View;

import android.view.View.OnClickListener;

import android.view.Window;

import android.widget.AdapterView;

import android.widget.AdapterView.OnItemSelectedListener;

import android.widget.ArrayAdapter;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Spinner;

import android.widget.TextView;

import android.widget.Toast;

public class IncomeActivity extends Activity {

private static final String[] style = { "现金", "储蓄卡", "信用卡","支付宝","微信" };

private static final String[] fenlei = { "基本工资", "兼职", "生意收入","借入款" };

private EditText etNUm, etNote;

private Spinner spStyle, spFenlei;

private TextView tvTime, timeshow;

private Button btnRest, btnSubmit;

private ArrayAdapter<String> adapterStyle;

private ArrayAdapter<String> adapterFenlei;

private String money, note, sStyle, sFenlei;

String strTime;

// 数据库

private MyDBHelper DBsqlite;

private SQLiteDatabase sqlite;

@Override

protected void onCreate(Bundle savedInstanceState) {

// TODO Auto-generated method stub

super.onCreate(savedInstanceState);

//去掉软件上面的黑色的条

requestWindowFeature(Window.FEATURE\_NO\_TITLE);

setContentView(R.layout.activity\_income);

initview();

}

public void initview() {

btnRest = (Button) findViewById(R.id.income\_btn\_reset);

btnSubmit = (Button) findViewById(R.id.income\_btn\_submit);

// 收入金额

etNUm = (EditText) findViewById(R.id.etincome01);

// 收入备注

etNote = (EditText) findViewById(R.id.etincomenote);

// 收入时间

tvTime = (TextView) findViewById(R.id.tvincome04);

// 显示时间

timeshow = (TextView) findViewById(R.id.tvtime);

// 收入方式

spStyle = (Spinner) findViewById(R.id.spinner01);

// 收入分类

spFenlei = (Spinner) findViewById(R.id.spinner02);

// 设置监听器是否有输入金额、

//设置 填入收入金额时弹出数字键盘

etNUm.setInputType(InputType.TYPE\_CLASS\_NUMBER);

//设置时间

Time time=new Time();

time.setToNow();

int year=time.year;

int month=time.month;

int day=time.monthDay;

strTime=year+"/"+month+"/"+day;

timeshow.setText("今天");

etNUm.addTextChangedListener(new TextWatcher() {

@Override

public void onTextChanged(CharSequence s, int start, int before, int count) {

// TODO Auto-generated method stub

if (s == null || s.length() <= 0) {

btnSubmit.setEnabled(false);

} else {

btnSubmit.setEnabled(true);

}

}

@Override

public void beforeTextChanged(CharSequence s, int start, int count, int after) {

// TODO Auto-generated method stub

}

@Override

public void afterTextChanged(Editable s) {

// TODO Auto-generated method stub

}

});

// 收入方式适配器添加

adapterStyle = new ArrayAdapter<String>(this, android.R.layout.simple\_spinner\_dropdown\_item, style);

adapterStyle.setDropDownViewResource(R.layout.myspinner\_dropdown);

spStyle.setAdapter(adapterStyle);

spStyle.setOnItemSelectedListener(new OnItemSelectedListener() {

@Override

public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {

// TODO Auto-generated method stub

Toast.makeText(IncomeActivity.this, "选择的是：" + style[position], Toast.LENGTH\_SHORT).show();

sStyle= style[position];

}

@Override

public void onNothingSelected(AdapterView<?> parent) {

// TODO Auto-generated method stub

}

});

// 收入分类添加适配器

adapterFenlei = new ArrayAdapter<String>(this, android.R.layout.simple\_spinner\_item, fenlei);

adapterFenlei.setDropDownViewResource(R.layout.myspinner\_dropdown);

spFenlei.setAdapter(adapterFenlei);

spFenlei.setOnItemSelectedListener(new OnItemSelectedListener() {

@Override

public void onNothingSelected(AdapterView<?> parent) {

// TODO Auto-generated method stub

}

@Override

public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {

// TODO Auto-generated method stub

Toast.makeText(IncomeActivity.this, "选择的是：" + fenlei[position], Toast.LENGTH\_SHORT).show();

sFenlei = fenlei[position];

}

});

// 输入时间

tvTime.setOnClickListener(new OnClickListener() {

@Override

public void onClick(View v) {

// TODO Auto-generated method stub

Intent intent = new Intent(IncomeActivity.this, DataActivity.class);

startActivityForResult(intent, 0);

}

});

// 重置

btnRest.setOnClickListener(new OnClickListener() {

@Override

public void onClick(View v) {

etNUm.setText("");

etNote.setText("");

}

});

// 确定提交

btnSubmit.setOnClickListener(new OnClickListener() {

@Override

public void onClick(View v) {

// TODO Auto-generated method stub

money = etNUm.getText().toString();

note = etNote.getText().toString();

if(new ComeModle(IncomeActivity.this).save("income",money,sStyle,sFenlei,strTime,note)){

Toast.makeText(IncomeActivity.this, "保存成功！！", Toast.LENGTH\_SHORT).show();

Intent intent = new Intent(IncomeActivity.this,MainActivity.class);

startActivity(intent);

IncomeActivity.this.finish();

}else{

Toast.makeText(IncomeActivity.this, "保存失败，请重新操作！", Toast.LENGTH\_SHORT).show();

}

}

});

}

// 覆盖onactivityResult方法

@Override

protected void onActivityResult(int requestCode, int resultCode, Intent data) {

// TODO Auto-generated method stub

Bundle bundle = data.getExtras();

strTime = bundle.getString("time");

System.out.println(strTime);

timeshow.setText(strTime);

}

}

## 3.3日常支出



package com.example.feigou.test;

import com.example.feigou.activity.MainActivity;

import com.example.feigou.db.ComeModle;

import com.example.feigou.db.MyDBHelper;

import com.example.personmoney.R;

import android.app.Activity;

import android.content.Intent;

import android.database.sqlite.SQLiteDatabase;

import android.os.Bundle;

import android.text.Editable;

import android.text.TextWatcher;

import android.text.format.Time;

import android.view.View;

import android.view.Window;

import android.view.View.OnClickListener;

import android.widget.AdapterView;

import android.widget.ArrayAdapter;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Spinner;

import android.widget.TextView;

import android.widget.Toast;

import android.widget.AdapterView.OnItemSelectedListener;

public class OutcomeActivity extends Activity {

private static final String[] style= {"现金", "储蓄卡", "信用卡","支付宝","微信"};

private static final String[] fenlei= {"餐饮","购物","交通","水电费","娱乐","医疗","教育","人情","其他"};

private EditText etNum,etNote;

private Spinner spStyle,spFenlei;

private TextView tvTime,timeshow;

private Button btnRest,btnSubmit;

private ArrayAdapter<String> adapterStyle;

private ArrayAdapter<String> adapterFenlei;

private String money,note,sStyle,sFenlei;

String strTime;

//数据库

private MyDBHelper DBsqlite;

private SQLiteDatabase sqlite;

@Override

protected void onCreate(Bundle savedInstanceState) {

// TODO Auto-generated method stub

super.onCreate(savedInstanceState);

//去掉软件上面的黑色的条

requestWindowFeature(Window.FEATURE\_NO\_TITLE);

setContentView(R.layout.activity\_outcome);

init();

}

public void init() {

btnRest=(Button) findViewById(R.id.income\_btn\_reset);

btnSubmit=(Button) findViewById(R.id.income\_btn\_submit);

//支出金额

etNum=(EditText) findViewById(R.id.etincome01);

//支出备注

etNote=(EditText) findViewById(R.id.etincomenote);

//支出时间

tvTime=(TextView) findViewById(R.id.tvincome04);

//显示时间

timeshow=(TextView)findViewById(R.id.tvtime);

//支出方式

spStyle=(Spinner) findViewById(R.id.spinner01);

//支出分类

spFenlei=(Spinner) findViewById(R.id.spinner02);

//设置时间

Time time=new Time();

time.setToNow();

int year=time.year;

int month=time.month;

int day=time.monthDay;

strTime=year+"/"+month+"/"+day;

timeshow.setText("今天");

etNum.addTextChangedListener(new TextWatcher() {

@Override

public void onTextChanged(CharSequence s, int start, int before, int count) {

// TODO Auto-generated method stub

if (s == null || s.length() <= 0) {

btnSubmit.setEnabled(false);

} else {

btnSubmit.setEnabled(true);

}

}

@Override

public void beforeTextChanged(CharSequence s, int start, int count, int after) {

// TODO Auto-generated method stub

}

@Override

public void afterTextChanged(Editable s) {

// TODO Auto-generated method stub

}

});

// 收入方式适配器添加

adapterStyle = new ArrayAdapter<String>(this, android.R.layout.simple\_spinner\_dropdown\_item, style);

adapterStyle.setDropDownViewResource(R.layout.myspinner\_dropdown);

spStyle.setAdapter(adapterStyle);

spStyle.setOnItemSelectedListener(new OnItemSelectedListener() {

@Override

public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {

// TODO Auto-generated method stub

Toast.makeText(OutcomeActivity.this, "选择的是：" + style[position], Toast.LENGTH\_SHORT).show();

sStyle= style[position];

}

@Override

public void onNothingSelected(AdapterView<?> parent) {

// TODO Auto-generated method stub

}

});

// 收入分类添加适配器

adapterFenlei = new ArrayAdapter<String>(this, android.R.layout.simple\_spinner\_item, fenlei);

adapterFenlei.setDropDownViewResource(R.layout.myspinner\_dropdown);

spFenlei.setAdapter(adapterFenlei);

spFenlei.setOnItemSelectedListener(new OnItemSelectedListener() {

@Override

public void onNothingSelected(AdapterView<?> parent) {

// TODO Auto-generated method stub

}

@Override

public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {

// TODO Auto-generated method stub

Toast.makeText(OutcomeActivity.this, "选择的是：" + fenlei[position], Toast.LENGTH\_SHORT).show();

sFenlei = fenlei[position];

}

});

// 输入时间

tvTime.setOnClickListener(new OnClickListener() {

@Override

public void onClick(View v) {

// TODO Auto-generated method stub

Intent intent = new Intent(OutcomeActivity.this, DataActivity.class);

startActivityForResult(intent, 0);

}

});

// 重置

btnRest.setOnClickListener(new OnClickListener() {

@Override

public void onClick(View v) {

etNum.setText("");

etNote.setText("");

}

});

//strTime="2017--12-12";

// 确定提交

btnSubmit.setOnClickListener(new OnClickListener() {

@Override

public void onClick(View v) {

// TODO Auto-generated method stub

money = etNum.getText().toString();

note = etNote.getText().toString();

if(new ComeModle(OutcomeActivity.this).save("outcome",money,sStyle,sFenlei,strTime,note)){

Toast.makeText(OutcomeActivity.this, "保存成功！！", Toast.LENGTH\_SHORT).show();

Intent intent = new Intent(OutcomeActivity.this,MainActivity.class);

startActivity(intent);

OutcomeActivity.this.finish();

}else{

Toast.makeText(OutcomeActivity.this, "保存失败，请重新操作！", Toast.LENGTH\_SHORT).show();

}

}

});

}

//覆盖onactivityResult方法

@Override

protected void onActivityResult(int requestCode, int resultCode, Intent data) {

// TODO Auto-generated method stub

Bundle bundle = data.getExtras();

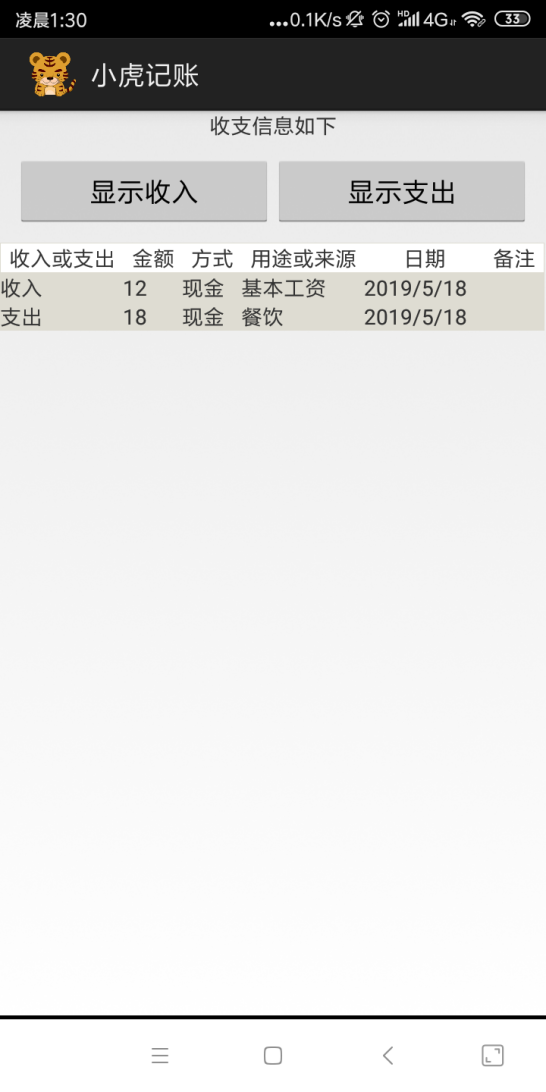
strTime = bundle.getString("time");

timeshow.setText(strTime);

}

}

## 3.4收支列表



主要代码：

（1）收支列表。从数据库中读取出收入和支出信息。

package com.example.feigou.test;

import com.example.feigou.db.MyDBHelper;

import com.example.personmoney.R;

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.view.View.OnClickListener;

import android.view.ViewGroup.LayoutParams;

import android.widget.Button;

import android.widget.TableLayout;

import android.widget.TableRow;

import android.widget.TextView;

import android.widget.Toast;

public class ListComeActivity extends Activity {

private Button btnShowIn,btnShowOut;

@Override

protected void onCreate(Bundle savedInstanceState) {

// TODO Auto-generated method stub

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_listcome);

btnShowIn=(Button) findViewById(R.id.btnlistin);

btnShowOut=(Button) findViewById(R.id.btnlistout);

//向TableLayout添加数据库数据

addDates();

//为显示所有收入按钮添加事件

btnShowIn.setOnClickListener(new OnClickListener() {

@Override

public void onClick(View v) {

//Toast.makeText(ListComeActivity.this, "本功能还未实现",Toast.LENGTH\_SHORT ).show();

Intent intent=new Intent(ListComeActivity.this,ShowAllIncomeActivity.class);

startActivity(intent);

}

});

//为显示所有收入按钮添加事件

btnShowOut.setOnClickListener(new OnClickListener() {

@Override

public void onClick(View v) {

//Toast.makeText(ListComeActivity.this, "本功能还未实现",Toast.LENGTH\_SHORT ).show();

Intent intent=new Intent(ListComeActivity.this,ShowAllOutActivity.class);

startActivity(intent);

}

});

}

public void addDates() {

MyDBHelper database = new MyDBHelper(ListComeActivity.this,

"jizhang.db", null, 2);// 这段代码放到Activity类中才用this

SQLiteDatabase db = database.getReadableDatabase();

TableLayout table = (TableLayout) findViewById(R.id.tlListCome);

//只显示支出收入

Cursor c = db.rawQuery("select \* from come where inorout=? or inorout=?",

new String[]{"income","outcome"});

//显示全部的情況

if (c.moveToFirst()) {

do {

Log.i("c.getcount()=", c.getCount() + "");

String inorout = c.getString(c.getColumnIndex("inorout"));

String money = c.getString(c.getColumnIndex("money"));

String style = c.getString(c.getColumnIndex("style"));

String fenlei = c.getString(c.getColumnIndex("fenlei"));

String time = c.getString(c.getColumnIndex("time"));

String note = c.getString(c.getColumnIndex("note"));

Log.i("inorout:", inorout);

Log.i("fenlei:", fenlei);

Log.i("time", time);

TableRow tablerow = new TableRow(ListComeActivity.this);

TextView tvText1 = new TextView(ListComeActivity.this);

//汉化

if(inorout.equalsIgnoreCase("income")){

inorout="收入";

}else if(inorout.equalsIgnoreCase("outcome")){

inorout="支出";

}else{

inorout="預算";

}

tvText1.setText(inorout);

TextView tvText2 = new TextView(ListComeActivity.this);

tvText2.setText(money);

TextView tvText3 = new TextView(ListComeActivity.this);

tvText3.setText(style);

TextView tvText4 = new TextView(ListComeActivity.this);

tvText4.setText(fenlei);

TextView tvText5 = new TextView(ListComeActivity.this);

tvText5.setText(time);

TextView tvText6 = new TextView(ListComeActivity.this);

tvText6.setText(note);

tablerow.addView(tvText1);

tablerow.addView(tvText2);

tablerow.addView(tvText3);

tablerow.addView(tvText4);

tablerow.addView(tvText5);

tablerow.addView(tvText6);

table.addView(tablerow, new TableLayout.LayoutParams(

LayoutParams.WRAP\_CONTENT, LayoutParams.WRAP\_CONTENT));

} while (c.moveToNext());

}

}

}

## Screenshot_2019-06-18-01-34-31-539_com.example.pe3.5添加预算

package com.example.feigou.test;

import com.example.feigou.activity.MainActivity;

import com.example.feigou.db.ComeModle;

import com.example.feigou.db.MyDBHelper;

import com.example.personmoney.R;

import android.app.Activity;

import android.content.Intent;

import android.database.sqlite.SQLiteDatabase;

import android.os.Bundle;

import android.text.Editable;

import android.text.TextWatcher;

import android.view.View;

import android.view.View.OnClickListener;

import android.widget.AdapterView;

import android.widget.AdapterView.OnItemSelectedListener;

import android.widget.ArrayAdapter;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Spinner;

import android.widget.TextView;

import android.widget.Toast;

public class AddPreActivity extends Activity {

private static final String[] style={"现金","银行卡","兑换券"};

private static final String[] fenlei= {"生活用品","工作学习","交通工具","业余爱好","其他"};

private EditText etNum ,etNote;

private Spinner spStyle, spFenlei;

private TextView tvTime, timeshow;

private Button btnRest, btnSubmit;

private ArrayAdapter<String> adapterStyle;

private ArrayAdapter<String> adapterFenlei;

private String money,note,sStyle,sFenlei;

String strTime;

//数据库

private MyDBHelper DBsqlite;

private SQLiteDatabase sqlite;

@Override

protected void onCreate(Bundle savedInstanceState) {

// TODO Auto-generated method stub

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_addpre);

initview();

}

public void initview() {

btnRest = (Button) findViewById(R.id.income\_btn\_reset);

btnSubmit = (Button) findViewById(R.id.income\_btn\_submit);

// 支出金额

etNum = (EditText) findViewById(R.id.etincome01);

// 支出备注

etNote = (EditText) findViewById(R.id.etincomenote);

// 重置

btnRest = (Button) findViewById(R.id.income\_btn\_reset);

// 确定

btnSubmit = (Button) findViewById(R.id.income\_btn\_submit);

// 支出时间

tvTime = (TextView) findViewById(R.id.tvincome04);

// 显示时间

timeshow = (TextView) findViewById(R.id.tvtime);

// 支出方式

spStyle = (Spinner) findViewById(R.id.spinner01);

//支出分类

spFenlei = (Spinner) findViewById(R.id.spinner02);

// 设置监听是否有输入金额

etNum.addTextChangedListener(new TextWatcher() {

@Override

public void beforeTextChanged(CharSequence s, int start, int count,

int after) {

// TODO Auto-generated method stub

}

@Override

public void onTextChanged(CharSequence s, int start, int before,

int count) {

// TODO Auto-generated method stub

if (s == null || s.length() <= 0) {

btnSubmit.setEnabled(false);

} else {

btnSubmit.setEnabled(true);

}

}

@Override

public void afterTextChanged(Editable s) {

// TODO Auto-generated method stub

}

});

// 收入方式适配器添加

adapterStyle = new ArrayAdapter<String>(this,

android.R.layout.simple\_spinner\_item, style);

adapterStyle.setDropDownViewResource(R.layout.myspinner\_dropdown);

spStyle.setAdapter(adapterStyle);

spStyle.setOnItemSelectedListener(new OnItemSelectedListener() {

@Override

public void onItemSelected(AdapterView<?> parent, View view,

int position, long id) {

// TODO Auto-generated method stub

Toast.makeText(AddPreActivity.this, "选择的是:" + style[position],

Toast.LENGTH\_SHORT).show();

sStyle = style[position];

}

@Override

public void onNothingSelected(AdapterView<?> parent) {

// TODO Auto-generated method stub

}

});

// 收入分类添加适配器

adapterFenlei = new ArrayAdapter<String>(this,

android.R.layout.simple\_spinner\_item, fenlei);

adapterFenlei.setDropDownViewResource(R.layout.myspinner\_dropdown);

spFenlei.setAdapter(adapterFenlei);

spFenlei.setOnItemSelectedListener(new OnItemSelectedListener() {

@Override

public void onItemSelected(AdapterView<?> parent, View view,

int position, long id) {

// TODO Auto-generated method stub

Toast.makeText(AddPreActivity.this, "选择的是:" + fenlei[position],

Toast.LENGTH\_SHORT).show();

sFenlei = fenlei[position];

}

@Override

public void onNothingSelected(AdapterView<?> parent) {

// TODO Auto-generated method stub

}

});

// 重置

btnRest.setOnClickListener(new OnClickListener() {

@Override

public void onClick(View v) {

// TODO Auto-generated method stub

etNum.setText("");

etNote.setText("");

}

});

// 确定提交

btnSubmit.setOnClickListener(new OnClickListener() {

@Override

public void onClick(View v) {

// TODO Auto-generated method stub

money = etNum.getText().toString();

note = etNote.getText().toString();

if(new ComeModle(AddPreActivity.this).save("addpre",money,sStyle,sFenlei,strTime,note)){

Toast.makeText(AddPreActivity.this, "保存成功！！", Toast.LENGTH\_SHORT).show();

Intent intent = new Intent(AddPreActivity.this,MainActivity.class);

startActivity(intent);

AddPreActivity.this.finish();

}else{

Toast.makeText(AddPreActivity.this, "保存失败，请重新操作！", Toast.LENGTH\_SHORT).show();

}

}

});

// 输入时间

tvTime.setOnClickListener(new OnClickListener() {

@Override

public void onClick(View v) {

// TODO Auto-generated method stub

Intent intent = new Intent(AddPreActivity.this,

DataActivity.class);

startActivityForResult(intent, 0);

}

});

}

// 覆盖onacticityResult方法

@Override

protected void onActivityResult(int requestCode, int resultCode, Intent data) {

// TODO Auto-generated method stub

// super.onActivityResult(requestCode, resultCode, data);

switch (resultCode) {

case RESULT\_OK:

Bundle b = data.getExtras();

strTime = b.getString("time");

timeshow.setText(strTime);

break;

default:

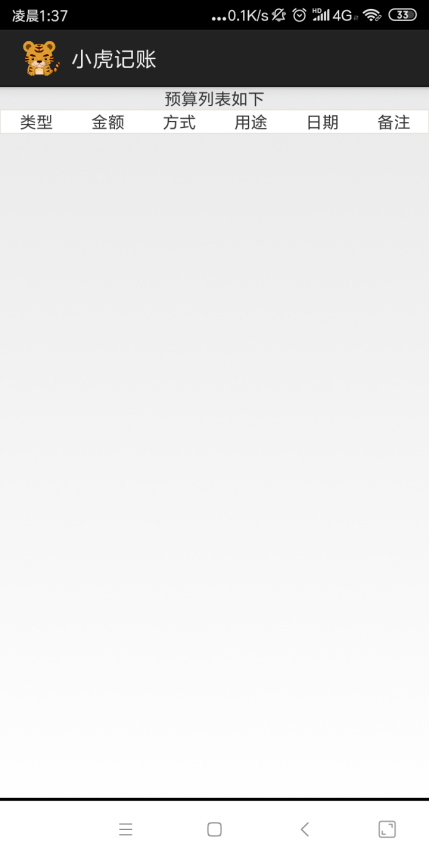
break;

}

}

}

## 3.6预算列表



主要代码：

package com.example.feigou.test;

import com.example.feigou.db.MyDBHelper;

import com.example.personmoney.R;

import android.app.Activity;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.os.Bundle;

import android.util.Log;

import android.view.ViewGroup.LayoutParams;

import android.widget.TableLayout;

import android.widget.TableRow;

import android.widget.TextView;

public class ListPreActivity extends Activity{

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_listpre);

// 向TableLayout中添加数据库数据

addDates();

}

public void addDates() {

MyDBHelper database = new MyDBHelper(ListPreActivity.this,

"jizhang.db", null, 2);// 这段代码放到Activity类中才用this

SQLiteDatabase db = database.getReadableDatabase();

TableLayout table = (TableLayout) findViewById(R.id.tlListCome);

//table.setStretchAllColumns(true);

// Log.i("test", "1");

Cursor c = db.rawQuery("select \* from come where inorout=?",

new String[]{"addpre"});// 查询并获得游标

if (c.moveToFirst()) {

do {

Log.i("c.getcount()=", c.getCount() + "");

String inorout = c.getString(c.getColumnIndex("inorout"));

String money = c.getString(c.getColumnIndex("money"));

String style = c.getString(c.getColumnIndex("style"));

String fenlei = c.getString(c.getColumnIndex("fenlei"));

String time = c.getString(c.getColumnIndex("time"));

String note = c.getString(c.getColumnIndex("note"));

Log.i("inorout:", inorout);

Log.i("fenlei:", fenlei);

Log.i("time", time);

TableRow tablerow = new TableRow(ListPreActivity.this);

TextView tvText1 = new TextView(ListPreActivity.this);

//汉化

if(inorout.equalsIgnoreCase("income")){

inorout="收入";

}else if(inorout.equalsIgnoreCase("outcome")){

inorout="支出";

}else{

inorout="预算";

}

tvText1.setText(inorout);

TextView tvText2 = new TextView(ListPreActivity.this);

tvText2.setText(money);

TextView tvText3 = new TextView(ListPreActivity.this);

tvText3.setText(style);

TextView tvText4 = new TextView(ListPreActivity.this);

tvText4.setText(fenlei);

TextView tvText5 = new TextView(ListPreActivity.this);

tvText5.setText(time);

TextView tvText6 = new TextView(ListPreActivity.this);

tvText6.setText(note);

tablerow.addView(tvText1);

tablerow.addView(tvText2);

tablerow.addView(tvText3);

tablerow.addView(tvText4);

tablerow.addView(tvText5);

tablerow.addView(tvText6);

table.addView(tablerow, new TableLayout.LayoutParams(

LayoutParams.WRAP\_CONTENT, LayoutParams.WRAP\_CONTENT));

} while (c.moveToNext());

}

 }

}

## 3.7登录

package com.example.personmoney;

import java.util.Map;

import com.example.feigou.activity.MainActivity;

import android.app.Activity;

import android.content.Intent;

import android.content.SharedPreferences;

import android.content.SharedPreferences.Editor;

import android.os.Bundle;

import android.text.TextUtils;

import android.view.Menu;

import android.view.MenuItem;

import android.view.View;

import android.widget.CheckBox;

import android.widget.EditText;

import android.widget.Toast;

public class LoginActivity2 extends Activity {

private EditText et\_name;

private EditText et\_userpassword;

private CheckBox cb\_ischeck;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_login2);

//1.找到我们关心的控件

et\_name=(EditText)findViewById(R.id.et\_username);

et\_userpassword=(EditText)findViewById(R.id.et\_userpassword);

cb\_ischeck=(CheckBox)findViewById(R.id.cb\_ischeck);

//在config.xml文件中把我们关心的数据取出来 然后显示在Edittext控件上

//使用SharedPreferences 去保存数据 那到sp的实例

SharedPreferences sPreferences=getSharedPreferences("config", 0);

String name=sPreferences.getString("name", "");

String password=sPreferences.getString("pwd", "");

boolean status=sPreferences.getBoolean("status", false);

et\_name.setText(name);

et\_userpassword.setText(password);

cb\_ischeck.setChecked(status);

}

//写点击事件

public void login(View v) {

//2.1获取用户名和密码SS

String name=et\_name.getText().toString().trim();

String password=et\_userpassword.getText().toString().trim();

System.out.println("cb\_ischeck:"+cb\_ischeck.isChecked());

//2.2判断name和password是否为空

if(TextUtils.isEmpty(name)||TextUtils.isEmpty(password)) {

Toast.makeText(LoginActivity2.this, "用户名和密码不能为空", 1).show();

}

else {

//进行登录的逻辑

Intent intent=new Intent();

intent.setClass(LoginActivity2.this, MainActivity.class);

startActivity(intent);

if(cb\_ischeck.isChecked()) {

//使用SharedPreferences 去保存数据 那到sp的实例

SharedPreferences sPreferences=getSharedPreferences("config", 0);

//获取sp的编辑器

Editor editor=sPreferences.edit();

editor.putString("name", name);

editor.putString("pwd", password);

editor.putBoolean("status", true);

//提交

editor.commit();

}

else {

Toast.makeText(LoginActivity2.this, "请勾选'记住用户名密码'", 1).show();

}

}

}

}

1. **心得体会**

这次大作业题目是我拿我原来在去年寒假写的项目的基础上补充了添加预算功能，预算列表功能，以及登录功能。Android在创建项目的视乎经常薄一些不知名的错误，不过好在通过百度之后都解决了。在运行过程中也出现了许多错，因此为了不会一下子出现许多出错，我的代码增加一部分，我就会测试一遍。在整个项目中我感觉最难的是将数据写入到数据库中，因为android的数据库不想我们以前的mysql等数据库有图形化界面，我可以很直观看到这个数据库结果。