Main Activity gets athe data in various “edit text” objects, passes the data using extents on a button pressed named as “Process Data”

package com.assignment.androidactivity;

import android.os.Bundle;

import android.app.Activity;

import android.content.Intent;

import android.view.View;

import android.view.View.OnClickListener;

import android.widget.Button;

import android.widget.EditText;

public class MainActivity extends Activity {

static final String FIRST\_NAME\_KEY = "FIRST\_NAME\_KEY";

static final String LAST\_NAME\_KEY = "LAST\_NAME\_KEY";

static final String ADDRESS\_KEY = "ADDRESS";

static final String CREDIT\_CARD\_KEY = "CREDIT\_CARD\_KEY";

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

final EditText FirstName = (EditText) findViewById(R.id.first\_name);

final EditText LastName = (EditText) findViewById(R.id.last\_name);

final EditText Address = (EditText) findViewById(R.id.address);

final EditText CreditCard = (EditText) findViewById(R.id.credit\_card);

Button ReportData = (Button) findViewById(R.id.report\_data);

Button ProcessData = (Button) findViewById(R.id.process\_data);

Button SaveData = (Button) findViewById(R.id.save\_data);

Button Close = (Button) findViewById(R.id.close);

ProcessData.setOnClickListener(new OnClickListener(){

@Override

public void onClick(View v){

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

intent.putExtra(FIRST\_NAME\_KEY, FirstName.getText().toString());

intent.putExtra(LAST\_NAME\_KEY, LastName.getText().toString());

intent.putExtra(ADDRESS\_KEY, Address.getText().toString());

intent.putExtra(CREDIT\_CARD\_KEY, CreditCard.getText().toString());

startActivity(intent);

}

});

SaveData.setOnClickListener(new OnClickListener(){

@Override

public void onClick(View v){

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

intent.putExtra(FIRST\_NAME\_KEY, FirstName.getText().toString());

intent.putExtra(LAST\_NAME\_KEY, LastName.getText().toString());

intent.putExtra(ADDRESS\_KEY, Address.getText().toString());

intent.putExtra(CREDIT\_CARD\_KEY, CreditCard.getText().toString());

startActivity(intent);

}

});

ReportData.setOnClickListener(new OnClickListener(){

@Override

public void onClick(View v){

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

startActivity(intent);

}

});

Close.setOnClickListener(new OnClickListener(){

@Override

public void onClick(View v){

finish();

}

});

}}

Custom Adapter class to show the contact details in list view

package com.assignment.androidactivity;

import java.util.ArrayList;

import java.util.List;

import android.app.Activity;

import android.util.Log;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.ArrayAdapter;

import android.widget.TextView;

public class CustomAdapter extends ArrayAdapter<List<UserData>> {

private final Activity context;

private List<UserData> userDataList = new ArrayList<UserData>();

List<String> user = new ArrayList<String>();

public CustomAdapter(Activity context, List<UserData> userDataList) {

super(context, R.layout.list\_single);

this.context = context;

this.userDataList = userDataList;

}

@Override

public View getView(int position, View view, ViewGroup parent) {

Log.e("Adapter", "Creating views");

if(view == null) {

LayoutInflater inflater = context.getLayoutInflater();

view = inflater.inflate(R.layout.list\_single, null);

}

TextView FirstName = (TextView) view.findViewById(R.id.first\_name);

TextView LastName = (TextView) view.findViewById(R.id.last\_name);

TextView Address = (TextView) view.findViewById(R.id.address);

TextView CreditCard = (TextView) view.findViewById(R.id.credit\_card);

UserData userData = userDataList.get(position);

if(userData != null) {

FirstName.setText("First Name: " + userData.getFirstName());

LastName.setText("Last Name: " + userData.getLastName());

Address.setText("Address: " + userData.getAddress());

CreditCard.setText("Credit Card: " + userData.getCreditCardNUmber());

}

return view;

}

@Override

public int getCount() {

return userDataList.size();

}

}

Getters and Setters of User Data

package com.assignment.androidactivity;

public class UserData {

private int id;

private String firstName;

private String lastName;

private String address;

private String creditCardNUmber;

public String getFirstName() {

return firstName;

}

public void setFirstName(String firstName) {

this.firstName = firstName;

}

public String getLastName() {

return lastName;

}

public void setLastName(String lastName) {

this.lastName = lastName;

}

public String getAddress() {

return address;

}

public void setAddress(String address) {

this.address = address;

}

public String getCreditCardNUmber() {

return creditCardNUmber;

}

public void setCreditCardNUmber(String creditCardNUmber) {

this.creditCardNUmber = creditCardNUmber;

}

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

@Override

public String toString() {

return "UserData [id=" + id + ", FirstName=" + firstName + ", LastName=" + lastName +", Address=" + address + ", CreditCard=" + creditCardNUmber

+ "]";

}

}

SQlite Helper class used to create a database

package com.assignment.androidactivity;

import java.util.LinkedList;

import java.util.List;

import android.content.ContentValues;

import android.content.Context;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.database.sqlite.SQLiteOpenHelper;

import android.util.Log;

public class MySQLiteHelper extends SQLiteOpenHelper {

String TAG = "MySQLiteHelper";

// Database Version

private static final int DATABASE\_VERSION = 1;

// Database Name

private static final String DATABASE\_NAME = "UserDataDB";

// Users name

private static final String TABLE\_USERDATA = "UserData";

// Users Table Columns names

private static final String KEY\_ID = "id";

private static final String KEY\_FirstName = "FirstName";

private static final String KEY\_LastName = "LastName";

private static final String KEY\_Address = "Address";

private static final String KEY\_CreditCard = "CreditCard";

public MySQLiteHelper(Context context) {

super(context, DATABASE\_NAME, null, DATABASE\_VERSION);

}

@Override

public void onCreate(SQLiteDatabase db) {

// SQL statement to create User table

final String CREATE\_USERDATA\_TABLE = "CREATE TABLE IF NOT EXISTS "

+ TABLE\_USERDATA

+ "("

+ KEY\_ID + " integer primary key autoincrement, "

+ KEY\_FirstName + " text not null, "

+ KEY\_LastName + " text not null, "

+ KEY\_Address + " text not null, "

+ KEY\_CreditCard + " text not null"

+ ");";

// create Users table

db.execSQL(CREATE\_USERDATA\_TABLE);

}

@Override

public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {

// Drop older Users table if existed

db.execSQL("DROP TABLE IF EXISTS UserData");

// create fresh Users table

this.onCreate(db);

}

//---------------------------------------------------------------------

//private static final String[] COLUMNS = {KEY\_ID, KEY\_FirstName, KEY\_LastName, KEY\_Address, KEY\_CreditCard};

public void addUserData(UserData userData){

// Log.d("userData", savedata.toString());

// 1. get reference to writable DB

SQLiteDatabase db = this.getWritableDatabase();

ContentValues values = new ContentValues();

values.put(KEY\_FirstName, userData.getFirstName());

values.put(KEY\_LastName, userData.getLastName());

values.put(KEY\_Address, userData.getAddress());

values.put(KEY\_CreditCard, userData.getCreditCardNUmber());

// 2. create ContentValues to add key "column"/value

// get author

Log.e(TAG, "Going to insert data");

// 3. insert

db.insert(TABLE\_USERDATA, // table

null, //nullColumnHack

values); // key/value -> keys = column names/ values = column values

Log.e(TAG, "After insert");

// 4. close

db.close();

}

// Get All Users

public List<UserData> getAllUserData() {

List<UserData> users = new LinkedList<UserData>();

// 1. build the query

String query = "SELECT \* FROM " + TABLE\_USERDATA;

// 2. get reference to writable DB

SQLiteDatabase db = this.getWritableDatabase();

Cursor cursor = db.rawQuery(query, null);

// 3. go over each row, build User and add it to list

UserData user = null;

if (cursor.moveToFirst()) {

do {

user = new UserData();

user.setId(Integer.parseInt(cursor.getString(0)));

user.setFirstName(cursor.getString(1));

user.setLastName(cursor.getString(2));

user.setAddress(cursor.getString(3));

user.setCreditCardNUmber(cursor.getString(4));

// Add User to Users

users.add(user);

} while (cursor.moveToNext());

}

Log.d("getAllUsers()", users.toString());

// return Users

return users;

}

// Updating single User

}

Reports Data i.e. gets the data using sqlite helper class in list view

package com.assignment.androidactivity;

import java.util.List;

import android.app.Activity;

import android.os.Bundle;

import android.util.Log;

import android.widget.ListView;

public class ReportData extends Activity {

String TAG = "ReportData";

ListView list;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.report\_data);

list = (ListView)findViewById(R.id.list);

List<UserData> userDataList = new MySQLiteHelper(this).getAllUserData();

if(userDataList != null && userDataList.size() > 0) {

list.setAdapter(new CustomAdapter(this, userDataList));

}

}

}

Saves the data using sqlite helper class to the database

package com.assignment.androidactivity;

import java.io.File;

import android.app.Activity;

import android.content.ContentValues;

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.widget.Button;

public class SaveData extends Activity{

public static final String tracker = "SaveData";

@Override

protected void onCreate(Bundle savedInstanceState) {

// TODO Auto-generated method stub

super.onCreate(savedInstanceState);

setContentView(R.layout.save\_data);

Button SqLite = (Button) findViewById(R.id.sqlite);

Button SharedPreferences = (Button) findViewById(R.id.shared\_preferences);

//db.execSQL("CREATE TABLE IF NOT EXISTS UserData(FirstName VARCHAR, LastName VARCHAR, Address VARCHAR, CreditCard VARCHAR);");

// Get data via the key

Log.e(tracker,"m here");

Bundle extras = getIntent().getExtras();

if (extras == null) {

return;

}

final String firstName = extras.getString(MainActivity.FIRST\_NAME\_KEY);

final String lastName = extras.getString(MainActivity.LAST\_NAME\_KEY);

final String address = extras.getString(MainActivity.ADDRESS\_KEY);

final String creditCard = extras.getString(MainActivity.CREDIT\_CARD\_KEY);

final UserData userdata = new UserData();

userdata.setFirstName(firstName);

userdata.setLastName(lastName);

userdata.setAddress(address);

userdata.setCreditCardNUmber(creditCard);

final MySQLiteHelper db = new MySQLiteHelper(this);

//if (value1 != null) {

// do something with the data

//}

SqLite.setOnClickListener(new OnClickListener(){

@Override

public void onClick(View v){

//db.open();

Log.e(tracker,"m here --> " + userdata.toString());

db.addUserData(userdata);

db.getAllUserData();

}

});

SharedPreferences.setOnClickListener(new OnClickListener(){

@Override

public void onClick(View v){

}

});

}

}