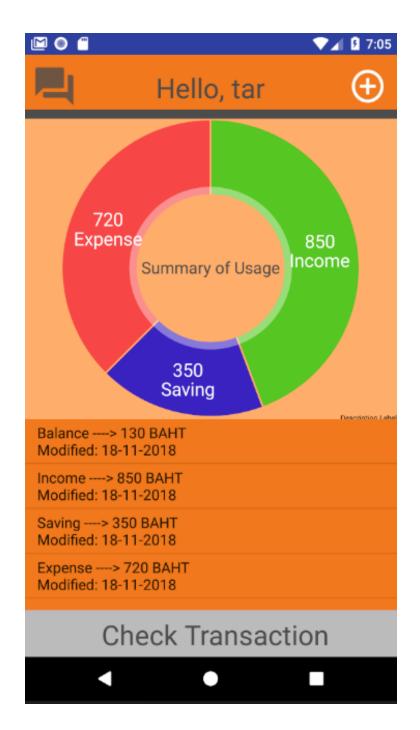
Project Mobile Application

App "Money Keeper"



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Function of Application

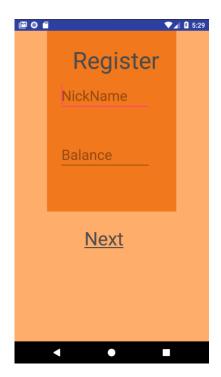
- -Money Keeper this Application use for about save money in everyday life.
- -Note title about income, expense ,auto-expense and saving

How to use Application

-In the first page, there is a Hello page, you can <u>slide left</u> and you will see <u>'Next'</u> button. When you click on it, it will lead you to registration page.



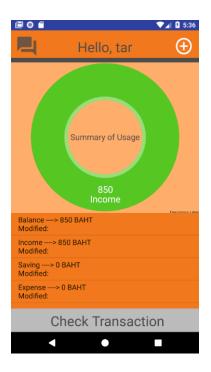
-Registration page ,there have fill box name and money. You have to enter your nickname and your first money for initialize balance so, after that press next



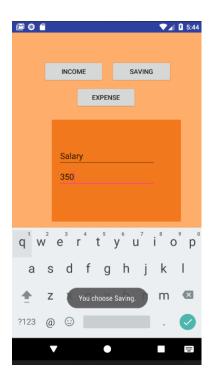
-After fill information finish, press Next. It will lead you to Main page.

In ListView on Main Page, it'll show:

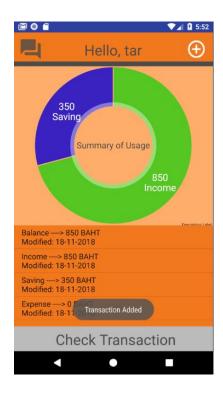
- 1.Balance from total summarize data of Income Expense.
- 2.Income from total summarize data of Income in DATABASE.
- 3. Saving from total summarize data of Saving in DATABASE.
- 4. Expense from total summarize data of Expense in DATABASE.
- -When you on Main page, click on button 'O'. It will lead you to add new transaction page.



-When you're on Add new transaction page. You have to select type of your new transaction by press the button. Next, input your description and amount after finish you choose create.



-When after you press create button, The new transaction will be added to Main page and stored in database by using SQLite.



-When click on button 'Check Transaction' it will show the list of transaction.

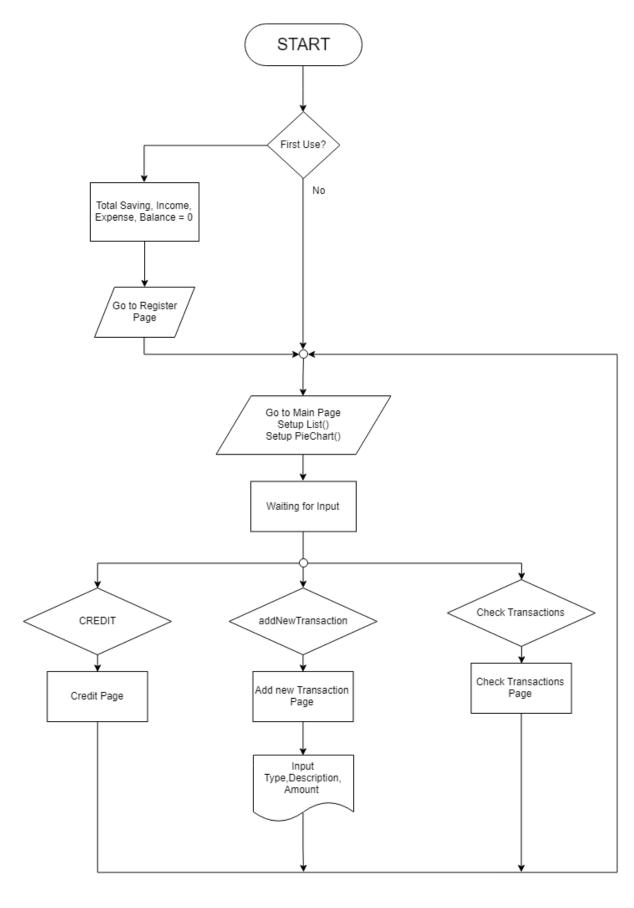


- -After you've checked transactions Press " ogo back to Main Screen.
- -In the Main Screen It's also had the " Button. It's the button that lead you to credit page to say thank you.



Project Structure of Application

Flowcharts



MAIN val: ContentValues ttSaving: int DATABASE HELPER ttIncome: int ttExpense: int DB_NAME : String ttBalance: int DB_VERSION: int balance : int TABLE_NAME : String doOneTime: boolean COL_DATE : String bincome : boolean COL_TYPE : String bsaving: boolean COL_AMOUNT : String bexpense : boolean COL_DESC : String isPressed : boolean TOTAL_INCOME : String prefs: SharedPreferences TOTAL_SAVING : String TAG: String TOTAL_EXPENSE : String StrnName : String TOTAL_BALANCE : String Date: String NAME: String xData : int[] yData: int[] DatabaseHelper(Context context); zData : int[] db : SQLiteDatabase db dbHelp: DatabaseHelper void onCreate(): cur: Cursor text: CharSequence void setDB(String date, String type, calendar : Calendar int amount, String desc, simpleDateFormat : SimpleDateFormat int income,int saving, create: Button int expense,int balance); transactionListView : ListView nickName : EditText void onUpgrade(SQLiteDatabase db, Title: TextView int oldVersion. int newVersion); void onCreate(Bundle savedInstanceState); void onRestart() void onPause() void onDestroy() void onStop() void onResume() ADAPTER void create(View v) void checkFirstTime() mDatas : List<Data> void openRegisterInfo(View v) mLayoutInflater : LayoutInflater void addIncome(View v) holder: ViewHolder void addSaving(View v) void addExpense(View v) void addNewTransaction(View v) MyAdapter(Context context, List<Data> aList); void checkTransaction(View v) int aetCount() void goToMain(View v) Object getItem(int i) void AfterPressRegisterButton(View v) long getItemId(int i) void setupList() View getView(int position, View view, ViewGroup view(void setupPieChart() void credits(View v) DATA mText1: String mText2: String mText3: String Data(String mText1, String mText2, String mText3); String getmText1(); void setmText1(String mText1); String getmText2(); void setmText2(String mText2); String getmText3();

void setmText3(String mText3);



1. Check First Time Using Application.

```
public void checkFirstTime() {
    if (prefs.getBoolean(key: "firstrun", defValue: true)) {
        Log.d(TAG, msg: "FirstRun");
        setContentView(R.layout.activity_firsttime);
        ttSaving=0;
        ttExpense=0;
        ttBalance=0;
        balance=0;
        bincome = false;
        bsaving = false;
        bexpense = false;
}
else{
        Log.d(TAG, msg: "Not FirstRun \nStarting main class ");
        setContentView(R.layout.activity_main);
        setupList();
        setupPieChart();
}
```

2.Register for First Use

3.Set up List/Pie Chart

```
public void setupPieChart() {
   chart.setTransparentCircleAlpha(100);
        pieEntries.add(new PieEntry(yData[1],xData[0]));
        pieEntries.add(new PieEntry(yData[2],xData[1]));
        colors.add(ContextCompat.getColor( context: this, R.color.BlueSaving));
       pieEntries.add(new PieEntry(yData[3],xData[2]));
   dataSet.setSliceSpace(2);
```

4.All Button Listeners

```
public void addIncome(View v) {
    bincome = true;
    bexpense = false;
    bsaving = false;
    text = "You choose Income.";
    Context context = getApplicationContext();
    int duration = Toast.LENGTH_SHORT;
    Toast toast = Toast.makeText(context, text, duration);
    toast.show();
}
```

```
public void addSaving(View v) {
    bsaving = true;
    bexpense = false;
    bincome = false;
    text = "You choose Saving.";
    Context context = getApplicationContext();
    int duration = Toast.LENGTH_SHORT;
    Toast toast = Toast.makeText(context, text, duration);
    toast.show();
}
```

```
public void addExpense(View v) {
   bexpense = true;
   bincome = false;
   bsaving = false;
   text = "You choose Expense.";
   Context context = getApplicationContext();
   int duration = Toast.LENGTH_SHORT;
   Toast toast = Toast.makeText(context, text, duration);
   toast.show();
}
```

```
public void addNewTransaction(View v) {
   Log.d(TAG, msg: "Adding new transaction");
   setContentView(R.layout.new_transaction);
}
```

```
public void goToMain(View v) {
    setContentView(R.layout.activity_main);
    setupList();
    setupPieChart();
}
```

```
public void credits(View v) {
    setContentView(R.layout.credit_activity);
}
```

5. All methods override from AppCompatActivity

```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    Log.d(TAG, msg: "Running onCreate in MainActivity");
    dbHelp = new DatabaseHelper(context this);
    db = dbHelp.getWritableDatabase();
    prefs = getSharedPreferences(name: "com.example.itar.moneykeeper2", MODE_PRIVATE);
    setContentView(R.layout.activity_main);
    isPressed = false;
    checkFirstTime();

    //yData[0]=dbHelp.getIncome();
}
```

```
@Override
protected void onRestart() {
    super.onRestart();
    Log.d(TAG, msg: "Running onPause in MainActivity");
}
```

6.Methods Create is a button Listener that store data from editText to database

```
public void create(View v) {
   transactionListView = (ListView) findViewById(R.id.transactionListView);
   create = (Button) findViewById(R.id.create);
   calendar = Calendar.getInstance();
   simpleDateFormat = new SimpleDateFormat( pattern: "dd-MM-YYYY");
   Date = simpleDateFormat.format(calendar.getTime());
   EditText description = findViewById(R.id.editText3);
   EditText amount = findViewById(R.id.editText5);
   String date = simpleDateFormat.format(calendar.getTime());
   String des = description.getText().toString();
   yData[0]=Integer.parseInt(cur.getString(cur.getColumnIndex(DatabaseHelper.TOTAL_BALANCE)));
   yData[1]=Integer.parseInt(cur.getString(cur.getColumnIndex(DatabaseHelper.TOTAL INCOMS)));
   yData[2]=Integer.parseInt(cur.getString(cur.getColumnIndex(DatabaseHelper.TOTAL_SAVING)));
   yData[3]=Integer.parseInt(cur.getString(cur.getColumnIndex(DatabaseHelper.TOTAL_EXPENSE)));
       ttExpense += yData[3];
   int Amount = Integer.parseInt( amount.getText().toString());
   String transactionType;
    if(bincome) {
       transactionType = "Income";
       ttIncome+=Amount;
        if(bsaving){
           transactionType = "Saving";
           ttSaving+=Amount;
           transactionType = "Expense";
           ttExpense+=Amount;
    if(!isPressed){
       create(v);
   db.execSQL("INSERT INTO " + DatabaseHelper.TASLS_NAMS + "("+ DatabaseHelper.COL_DATS +"," +
            ""+ DatabaseHelper.COL_DESC +","+ DatabaseHelper.COL_AMOUNT +","+dbHelp.COL_TYPE+"," +
           ""+ DatabaseHelper.TOTAL_SAVING +","+ DatabaseHelper.TOTAL_INCOME +",
            ""+ DatabaseHelper.TOTAL EXPENSE +","+ DatabaseHelper.TOTAL EALANCE +")"
           + "VALUES('"+date+"','"+des+"','"+Amount+"','"+transactionType+"'," +
           "'"+ttSaving+"','"+ttIncome+"','"+ttExpense+"','"+ttBalance+"')");
   setContentView(R.layout.activity_main);
   setupList();
   setupPieChart();
   Context context = getApplicationContext();
    int duration = Toast.LENGTH SHORT;
   Toast toast = Toast.makeText(context, text, duration);
   toast.show();
```

Gradle

```
apply plugin: 'com.android.application'
android {
    compileSdkVersion 28
    defaultConfig {
       minSdkVersion 26
       targetSdkVersion 28
    buildTypes {
       proguardFiles getDefaultProguardFile('proguard-android.txt'), 'proguard-rules.pro'
       packagingOptions {
dependencies {
    implementation fileTree(dir: 'libs', include: ['*.jar'])
    implementation 'com.android.support.constraint:constraint-layout:1.1.3'
    testImplementation 'junit:junit:4.12'
    androidTestImplementation 'com.android.support.test:runner:1.0.2'
    androidTestImplementation 'com.android.support.test.espresso:espresso-core:3.0.2'
    implementation 'android.arch.work:work-runtime:1.0.0-alpha10'
```

All XML Files

1) First Time

```
encoding="utf-
(?xml version="1.
   android:layout_width="match_parent
   android:layout_height="match_parent
   <LinearLayout
       android:layout_height="match_parent">
       <TextView
           android:layout_width="wrap_content"
           android:layout_height="wrap_content"
           android:layout_marginStart="140dp"
           android:layout_marginTop="200dp"
           android:layout_width="wrap_content"
           android:layout_height="wrap_content"
           android:layout_marginStart="160dp
           android:layout marginTop="200dp"
           android:layout_width="wrap_content"
           android:layout_height="wrap_content"
           android:layout_marginStart="160dp"
           android:layout_marginTop="200dp
       <TextView
           android:layout_width="wrap_content"
           android:layout_marginTop="350dp'
           android:layout_marginEnd="50dp"
           android:textSize="30sp" />
```

2) Main

```
ListView
    android:id="@+id/listView"
    android:layout_width="match_parent"
    android:layout_alignParentStart="true"
    android:layout_alignParentBottom="true"
    android:layout_marginBottom="5ldp"
    android:layout_marginBottom="5ldp"
    android:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.0" />

Android:layout_width="match_parent"
    android:layout_alignParentEnd="true"
    android:layout_alignParentEnd="true"
    android:layout_marginEnd="0dp"
    android:layout_marginEnd="0dp"
    android:layout_marginBottom="0dp"
    android:background="#bbbbbb"
    android:textColor="#4d4d4"
    android:textSize="30sp" />

Android:layout_alignParentTop="true"
    android:layout_marginTop="15dp"
    android:layout_marginEnd="15dp"
    android:layout_marginEnd="15dp"
    android:layout_marginEnd="15dp"
    android:layout_marginEnd="2dp"
    android:layout_marginEnd="2dp"
    android:layout_marginEnd="0dp"
    android:layout_marginEnd="2dp"
    android:layout_marginEnd="0dp"
    android:layout_marginEnd="0dp"
    android:layout_marginEnd="0dp"
    android:layout_marginEnd="2dp"
    android:layout_marginEnd=
```

3) Register

```
<EditText

android:id="@+id/editText2"
android:layout_width="192dp"
android:layout_height="wrap_content"
android:layout_marginTop="64dp"
android:itextColor="#4d4d4d"
android:textSize="30sp"
app:layout_constraintStart_toStartOf="@+id/nickName"
app:layout_constraintTop_toBottomOf="@+id/nickName" />

android:layout_width="wrap_content"
android:layout_meight="wrap_content"
android:layout_marginTop="120dp"
android:layout_marginTop="120dp"
android:olclick="AfterPressRegisterButton"
android:text="Next"
android:textColor="#4d4d4d"
android:textSize="40sp"
app:layout_constraintStart_toStartOf="@+id/editText2"
app:layout_constraintTop_toBottomOf="@+id/editText2"
app:layout_constraintLayout>
```

4) Check Transaction

```
<android.support.constraint.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:spe="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_height="match_parent"
    android:layout_width="match_parent"
    android:layout_width="match_parent"
    android:layout_leight="447dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintVertical_bias="1.0" />

android:layout_marginEnd="wap_content"
    android:layout_marginEnd="wap_content"
    android:layout_marginEnd="wap_content"
    android:layout_marginEnd="wap_content"
    android:layout_marginEnd="wap_content"
    android:layout_marginEnd="wap_content"
    android:layout_marginEnd="wap_content"
    android:layout_marginEnd="wap_content"
    android:layout_marginEnd="wap_content"
    android:layout_onstraintEnd_coEndOf="parent"
    app:layout_constraintEnd_coEndOf="parent"
    app:layout_constraintEnd_coEndOf="parent"
    app:layout_constraintEnd_coEndOf="parent"
    app:layout_onstraintEnd_soEndOf="parent" />

android:layout_marginEnd="soft"
    android:layout_marginEnd="soft"
    android:layout_marginEnd="soft"
    app:layout_constraintEnd_coEndOf="parent" />
    app:layout_onstraintEnd=soft"
    android:layout_marginEnd=soft"
    android:layout_marginEnd=soft"
    android:layout_marginEnd=soft"
    android:layout_marginEnd=soft"
    android:layout_marginEnd=soft
    android:layout_marginEnd=soft
    android:layout_marginEnd=soft
    android:layout_marginEnd=soft
    android:lay
```

5) Credits

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/apk/res-auto"
    android:layout_margin="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="sdp"
    android:layout_margin="sdp"
    android:layout_margin="sdp"
    android:layout_margin="sdp"
    android:layout_oonstraint="sdp"
    app:layout_constraint="sdp"
    app:layout_constraint="toostartOf="parent"
    app:layout_constraint="toostartOf="parent"
    app:layout_width="wrap_content"
    android:layout_margin="sdp"
    android:layout_margin="sdp"
    android:layout_margin="sdp"
    android:text="Thank you"
    android:text="Thank you"
```

```
<TextView
    android:id="@+id/textView4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="28dp"
    android:layout_marginTop="28dp"
    android:layout_marginEnd="8dp"
    android:layout_marginEnd="8dp"
    android:layout_marginEnd="8dp"
    android:layout_constraintEnd_coEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView3" />

android:id="@+id/textView6"
    android:layout_width="wrap_content"
    android:layout_marginStart="8dp"
    android:layout_marginEnd="8dp"
    android:layout_marginEnd="8dp"
    android:textSize="20sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    android:layout_width="wrap_content"
    android:layout_marginTop="96dp"
    android:layout_marginTop="96dp"
    android:layout_marginEnd="8dp"
    android:layout_marginEnd="8dp"
    android:layout_marginEnd="8dp"
    android:textSize="20sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:layout_marginEnd="8dp"
    android:layout_marginStart="8dp"
    android:layout_marginStart="8dp"
    android:layout_marginStart="8dp"
    android:layout_marginStart="8dp"
    android:layout_marginEnd="8dp"
    android:layou
```

6) New Transaction

```
adroid.support.constraint.ConstraintLayout
  android:layout_width="match_paren
  android:layout_height="match_parent"
  <Button
      android:layout_width="130dp"
      android:layout_height="wrap_content"
      android:layout_marginStart="68dp
      android:layout_marginTop="8dp'
      android:layout_marginBottom="8dp"
      app:layout_constraintVertical_bias="1.0" />
       android:layout_height="wrap_content"
      android:layout_marginTop="116dp"
      app:layout_constraintEnd_toEndOf="@+id/saving"
      app:layout_constraintTop_toTopOf="parent" />
      android:layout_width="130dp"
      android:layout_height="wrap_content"
      android:layout_marginStart="16dp"
      android:layout_marginTop="60dp
```

```
android:layout height="220dp"
   android:layout_marginEnd="8dp"
   android:layout_marginStart="8dp"
   android:layout_marginTop="188dp"
   app:layout_constraintEnd_toEndOf="parent
   app:layout_constraintHorizontal_bias="0.666"
   app:layout_constraintTop_toTopOf="parent" />
   android:layout_width="wrap_content"
   android:layout_height="wrap_content'
android:layout_marginStart="84dp"
   android:layout_marginBottom="52dp'
   app:layout_constraintStart_toStartOf="parent" />
   android:id="@+id/editText3"
   android:layout_height="wrap_content"
   android:layout_marginTop="244dp
   android:inputType="textEmailAddress"
<EditText
   android:layout_height="wrap_content"
   android:layout_marginStart="100dp
   android:ems="10
   app:layout_constraintTop_toBottomOf="@+id/editText3" />
```

```
<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="68dp"
    android:onClick="goToMain"
    android:text="Cancel"
    app:layout_constraintStart_toEndOf="@+id/create"
    app:layout_constraintTop_toTopOf="@+id/create" />
<//android.support.constraint.ConstraintLayout>
```

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