

# Kiadás-bevétel kezelő App (Angol)



The goal of the assignment is to create an expense / income manager application called *AndWallet*. The main functions of the applications are the followings:

- new expense/income booking,
- list of expenses/incomes in a RecyclerView,
- delete items,
- clear list,
- summary screen,
- pin screen
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## 1 Expenses and Incomes Screen (20p)

On the Expenses and Incomes screen the user can register different expenses and incomes by defining the name and the amount (e.g. "Salary" – "3500 \$").

This screen has two parts. On the top of the screen there are two *EditTexts* one for the title and one for the amount. Bellow this there is a *ToggleButton* or *CheckBox* that can be used to set whether this item is an income or outcome. Next to the *ToggleButton* or *CheckBox* there is a save button that can be used to save the item in the list.

The other part of the screen is the bottom part that is basically a *RecyclerView* and items are collected here as simple rows.

A row that represents an income or expense should have an icon - please use different icons for expense and income -, the title and the price.

The application should not allow saving empty data and it should show a proper error message about which field was empty.

Please find below an example for this screen:

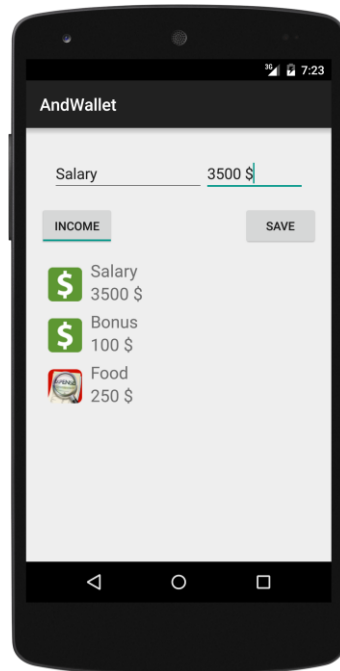


Figure 1 – Income / expense list

## 2 Delete Button (5p)

Add a "Delete" button for each row that removes that specific income/expense.



### 3 Delete All Menu (5p)

Add a "Delete all" menu or *ToolBar* menu or Button on the screen that removes all incomes/expenses.

### 4 Balance TextView (5p)

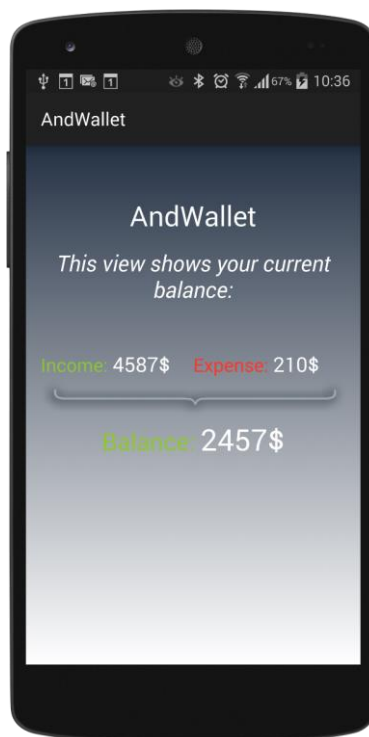
Add a "Balance" TextView somewhere the screen that shows your current balance based on the incomes and expenses.

### 5 Summary Screen (10p)

Create a menu on the main screen that navigates to the summary screen. The Summary Screen gives an overview about your current balance. It shows the following information:

- Summary of income
- Summary of expenses
- Balance = income - expenses

Please try to implement the following user interface for the Summary Screen:



**Figure 2 – Summary Screen**

Bracket image for summary screen:

<https://tinyurl.com/yalhdbjs>

### 6 PIN Screen (5 p)

Implement a PIN code request screen that will be the first/Launcher Activity. If the user enters the correct hard coded pin code (e.g. 5738) then the Expense and Income Screen (Activity) can start.

A simple *EditText* is fine, but you can also use a *Pin View library* as well:

<https://android-arsenal.com/tag/207>

<https://github.com/ChaosLeong/PinView>



## 7 Tips and Advises

- Padding/margin can increase the look&feel of the user interface. Also try to use CardView in the RecyclerView.
- Remember you can hide/show views by setting their visibility property to visible/invisible/gone.
- Remember to put all texts in the *strings.xml*.