

# Report Project L.A.M. (BudgetTracker)

Alessandro Fagnani

A.A. 2016/2017

## **1 Purpose of the application**

The application provides a general organization of user's expanses or profits, showing future and past transactions and the current budget. In addition, it provides an overview of useful statistics organized by category or a particular week, month or year. It also offers some services such as: a complete archive using the same formula of statistics function, mapping of transactions and a general summary of the most important informations saved in a PDF file. The main idea is based on the user-friendly home prospective, that get an easy and immediate way of what are, or will be, the future transactions.

## **2 Characteristics**

### **2.1 Requirements**

The application is based on a version of API SDK 25, but the minimum version is the 16th.

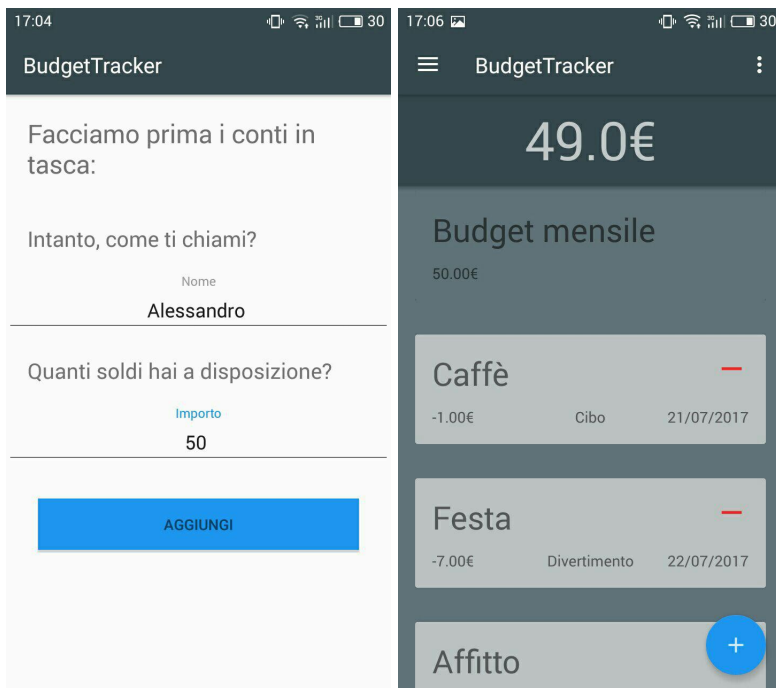
### **2.2 Planning**

The main purpose is simplicity, so the plan was to get to user an easy way to add, modify and remove every expanses and, against many other applications that are already in the store and have the same purpose, a user-friendly way to add a profits but most of all a recurrent transactions. All the other features respect this general idea, so they are easy to get and to understand.

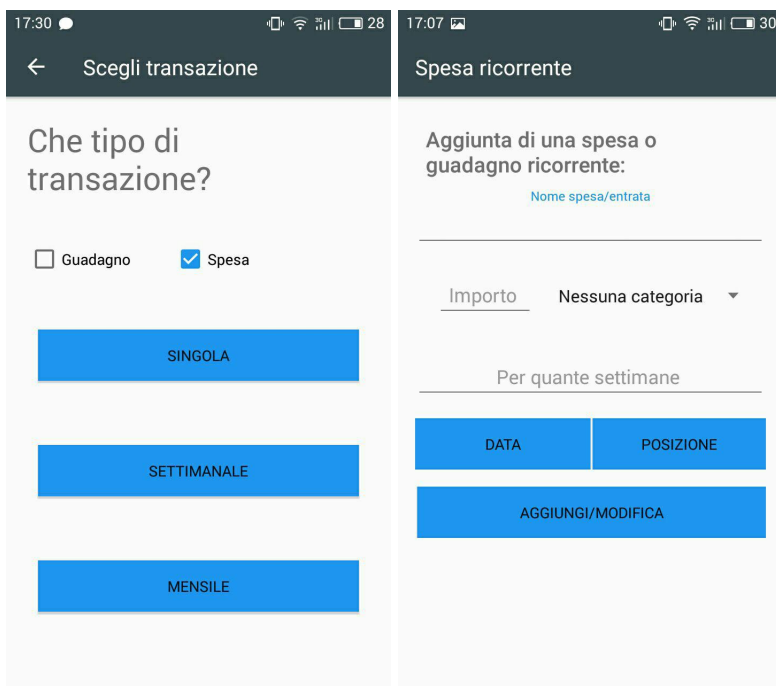
## **3 Implementation**

### **3.1 Flow and uses case**

The application was written like a flow, this means that, as the name of java files self-explain, the first activity is "firstActivity" and so on. The "mainActivity" become the first and always-on activity after the initial configuration, where the user put his name and his initial budget. From now on, that day, become the first day that the application look at and every month, in that specific day, it will rearrange the user's monthly budget and the first 15 future expanses (or profits) can be seen ordered by date.



Adding a transaction requires two/three activities ("ChooseTransaction" and "SpesaActivity" or "SpesaActivityPlanned"), because the user have to understand easily what kind of transaction he or she wants.



17:31 ●

←

# Bollette

Ammontare: -40.00€

Data: 28/07/2017

Categoria: Casa

Tipo di spesa: Ricorrente

Posizione: 

Statistics and archive are projected in the same way, so users can put a particular week, month or year and until 5 categories ("SelectChart", "LineChartActivity", "DaysChartActivity", "MonthsChartActivity", "StoricoActivity").

17:11

← Statistiche

Quale tipo di statistica vuoi vedere?

ANNUALE

MENSILE

SETTIM.

Oppure scegli un anno: Questo ann..

Oppure scegli un mese: Luglio

O una settimana: 11

Seleziona le categorie che vuoi vedere: +

Per una corretta visione si consiglia di ruotare lo schermo

17:51

← Archivio

Quale periodo vuoi vedere?

ANNUALE

MENSILE

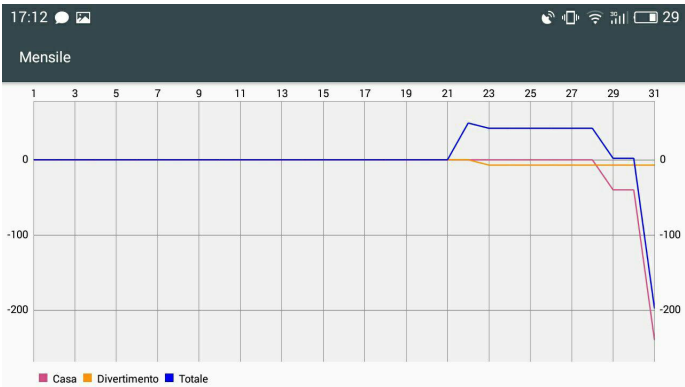
SETTIM.

Oppure scegli un anno: Questo ann..

Oppure scegli un mese: Luglio

O una settimana: 11

Seleziona le categorie che vuoi vedere: +



17:30

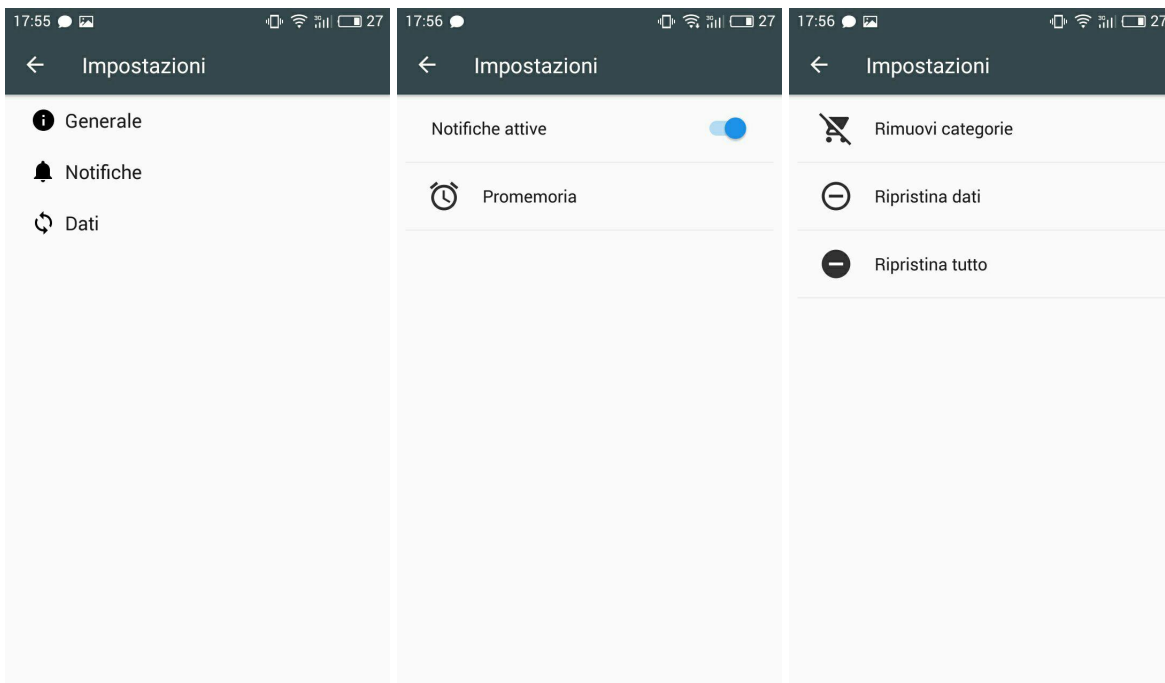
Archivio mensile

Caffè	-1.00€	Cibo	21/07/2017
Festa	-7.00€	Divertimento	22/07/2017
Bollette	-40.00€	Casa	28/07/2017
Affitto	-200.00€	Casa	30/07/2017

The general summary is done by "SummaryActivity" and you can see all the informations before saving the PDF file, if users choose to save, they can access to the file also from Settings-General.

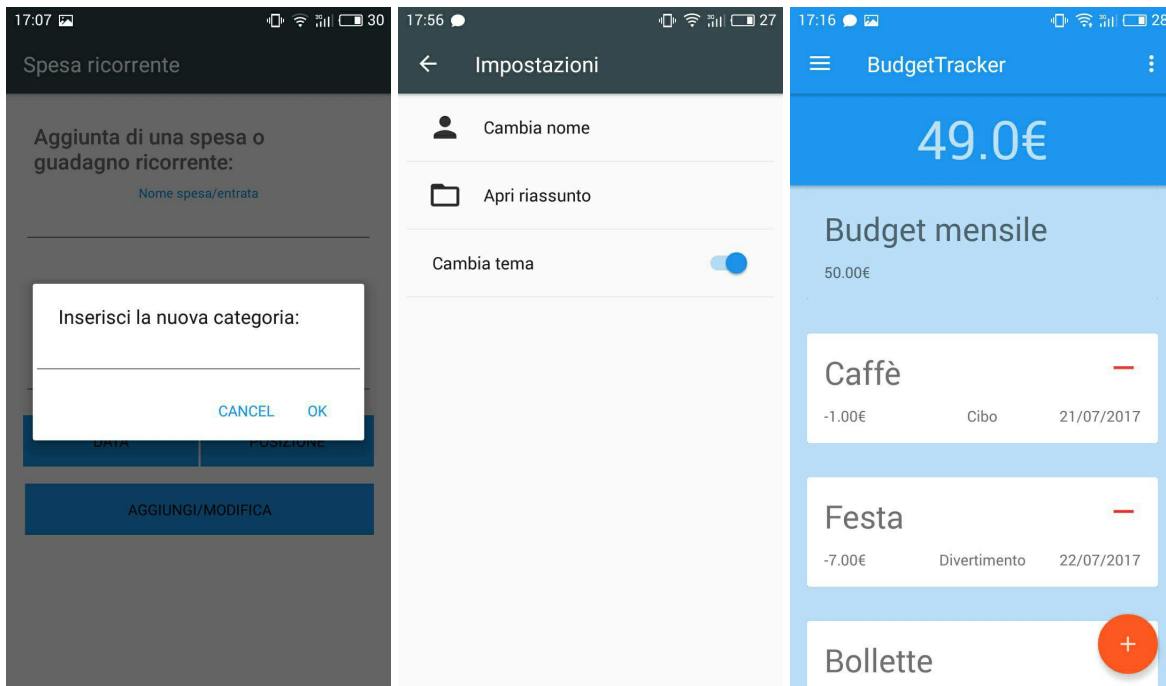


In Settings ("SettingsActivity") users can manage notifications (default are active and it will arrive a day before the expense) and remove data (categories, transactions and general informations).



### 3.2 Other features

When users add or modify a transactions, if there are no categories that fully describes the expense (or profit), there is the adding category function right at the bottom of categories list. When users choose to add monthly or weekly transactions they can choose also how many weeks or months it has to be saved in the database. The main color theme is gray and blue, but user can choose to change it in settings to a more colorful blue and orange theme.



## 4 Conclusions and possible expansions

A possible expansion is obviously to connect to bank account or credit card so users do not have to put all their transactions. Other features connected to expenses can be not useful or confusing, against the main idea of simplicity. In conclusion, I think that working with dates in java and sqlite, or Android in general, it not so easy like other platforms. Anyway, it was a new experience for me working with these languages and programming in an object-orienting way and considering all of these things, I am satisfied.