

Manage your Budget

User Centered Design

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Conceptual Model

❖ Concepts:

❖ Expenses

- ❖ Tags; Date; Description; Repetitions;
- ❖ Add; Edit; Delete;

❖ Earnings

- ❖ Tags; Date; Description; Repetitions;
- ❖ Add; Edit; Delete;



Conceptual Model

❖ Concepts:

❖ Budget

- ❖ Add; Edit; Delete; Control;

❖ Balance

- ❖ Visualize;

❖ Tags

- ❖ Add; Edit; Delete; Visualize;



Conceptual Model

❖ Metaphors

- ❖ Excel
- ❖ Calculator
- ❖ Notepad
- ❖ Receipts



Conceptual Model

- ❖ **Relations between concepts:**
 - ❖ Each expense has a Tag;
 - ❖ Expenses might repeat through time;
 - ❖ Each earning has a Tag;
 - ❖ Earnings might repeat through time;



Conceptual Model

❖ Relations between concepts:

- ❖ Budget is controlled using expenses and earnings;
- ❖ Budget has a maximum value for a period of time
- ❖ The balance is calculated using the expenses and earnings value



Conceptual Model

❖ Relations between concepts:

- ❖ Tags allow to visualize the items where the user spends more money, or where he earns more money.
- ❖ User is notified of the budget state through notifications.



Conceptual Model

❖ Mapping:

❖ Metaphor \leftrightarrow BudgetApp

❖ Excel \leftrightarrow Add expense

❖ Excel \leftrightarrow Add earning

❖ Excel \leftrightarrow See Balance

❖ Excel \leftrightarrow See budget



Conceptual Model

❖ Mapping:

❖ Metaphor \leftrightarrow BudgetApp

❖ Calculator \leftrightarrow Calculate expenses

❖ Calculator \leftrightarrow Calculate earnings



Conceptual Model

❖ Mapping:

❖ **Metaphor <-> BudgetApp**

❖ Notepad <-> See balance

❖ Notepad <-> Create budget

❖ Receipts <-> Add expense



Requirements List

❖ User

- ❖ Users must have some experience in using mobile apps.

❖ Environment

- ❖ The application must run on Android OS.

❖ Data

- ❖ User data is synchronized through the usage of the cloud;
- ❖ Information should be organized by filters.

Requirements List

❖ Functional

- ❖ Support multiple users;
- ❖ Add income and expenses;
- ❖ Create multiple budgets for different time periods;
- ❖ Generate graphics with the expenses/incomes inserted by users.

❖ Usability

- ❖ Adding Income or Expenses should be easy and fast;
- ❖ Application must be responsive while navigating.



Requirements List

❖ Validation: **CARDS**

- ❖ Android OS platform: Some users complained about the platform limitation;
- ❖ **CHANGE:** Platform will have a **Web-based** development, to easily adapt to every platform.



Requirements List

❖ Validation: **CARDS**

❖ Using filters: Users didn't understand the concept, they thought it was about search;

❖ **CHANGE:** Filters are now **TAGS**.



Questions?

