

CS Games 2016



Dome Finances: Additional Requirements

Dome accounting Application - Graphs

Overview/Balance

The Emperor, after carefully examining the documents from the Ministry of Finances, decided the previously proposed histograms were inadequate to visualize the financial state of the Dome. Therefore, we need you to replace all histograms by line diagrams.

Here are the updated mockups for Overview and Balance:



Dome Treasury

Bilan

From 9999/11/00 To 9999/11/00

Total in +1234,56 \$

Total out -1234,56 \$

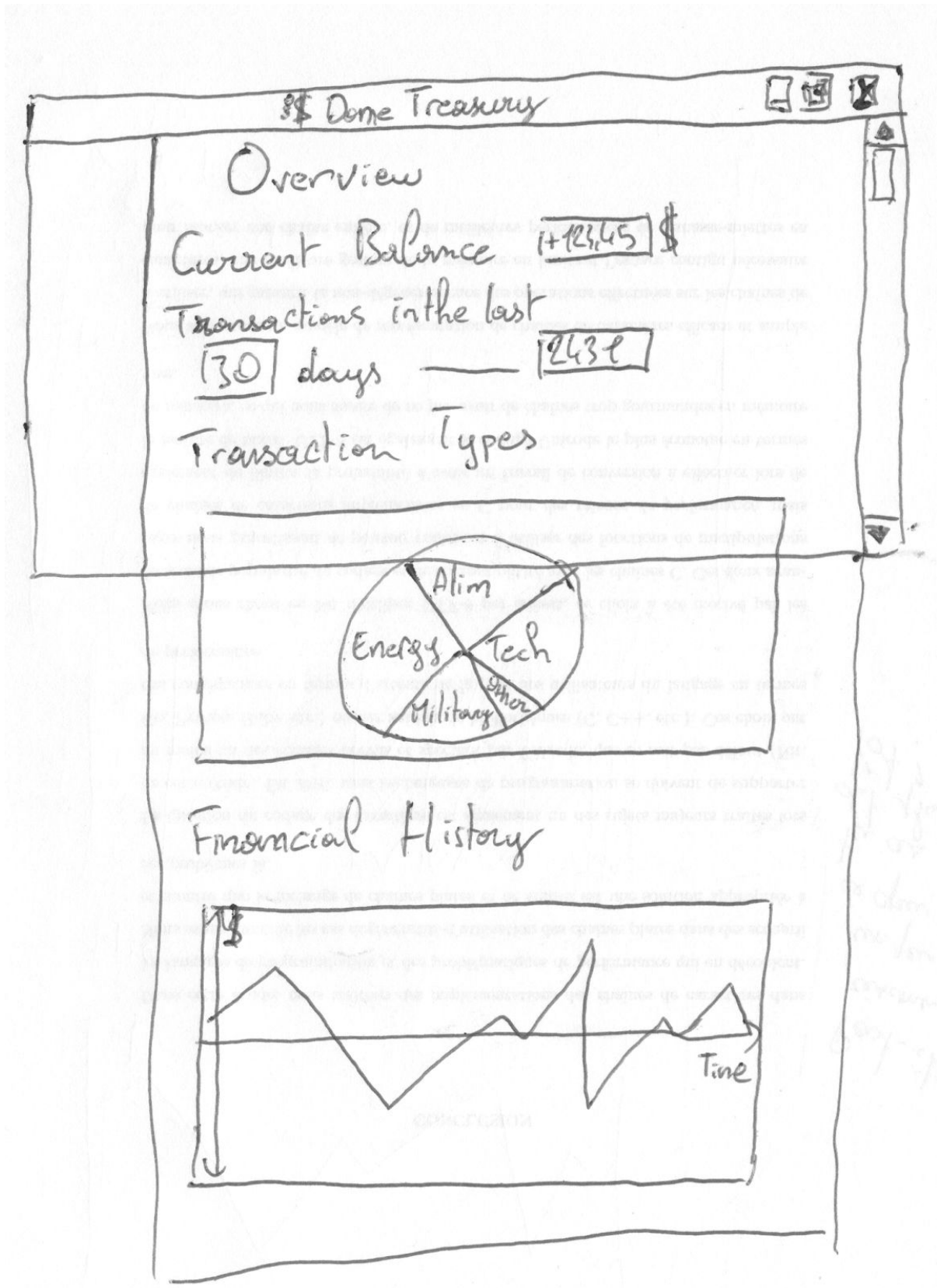
Balance +123,45 \$

Transaction List

N°	Partner	Paid	RemTime	Amount
1	A	✓	0/00	12,0\$
2	B	✓	0/00	23,5\$
3	C	X	0/12	10,4\$
4	D	✓	0/00	150,0\$

History





UML Class Diagram

For better future-proofness and easier long-term maintenance of the application, the Emperor and the infrastructure maintenance teams of the Dome require the production of UML class diagrams to better understand the overall organization of your application.

Robustness

A secure application must ensure the integrity of its data by all means. Which means that all user-input must be checked for compliance with the requirements of the Dome.

Since the DBMS we chose does not support hard-requirements on something other than the type of input, this means that every request sent to the database must be well-formed.

You will need to check within the application to make sure no bad inputs can be sent to the Database (we would not want malformed email addresses or phone numbers).