

TALLINNA TEHNIKAÜLIKOOL

Infotehnoloogia teaduskond

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# **Budget tracking application**

Project proposal in Web Applications with C# project

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## Author's declaration of originality

I hereby certify that I am the sole author of this thesis. All the used materials, references to the literature and the work of others have been referred to. This thesis has not been presented for examination anywhere else.

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# 1 Introduction

The goal of this project is to create an application that lets the user monitor their spendings and motivates them to spend less by giving them the tools and insights needed to take control of their finances. Even small day-to-day savings can make up a significant amount of money at the end of the month. It is common to have no money at all at the end of the month. Why is that, and how can we evenly balance it out throughout the month? This money management application can help. Simply put, the goal of this project is to create a web application that would assist users with keeping track of their spending.

This project is a part of coursework for the course *C# Web Applications* in TalTech and it will fulfill the requirements set by lecturer. As part of this project, there has to be ERD schema and a web application created based on the lecturers requirements.

## 2 Analysis

Budget apps can get very complicated easily if economy is not one of user's main interests. So, the keyword in this project is simplicity. This application is meant to be looked at every day by its users. It is because of the daily budget calculated from goals that the user sets for themselves in the beginning of the month. By looking at the data, the user can adjust their spendings accordingly.

There are two types of users, a simple User and an Admin. As an Admin, user can add new categories, adjust their color, and adjust the color of already existing categories. The simple user can use all the other features of the application.

The application will have features as follows. Users are able to create a budget, where they set their spending goals for the period. The goals are set for each category individually, this helps a lot with tracking the expenses. Users can also make funds, where they can put their free money, these can also be described as wish lists or goals – they help to motivate the user. Users are able to add different accounts, this is mainly meant for card accounts, but cash accounts can be created also. Users can add transactions, where they state the time, amount and category.

The categorization should also be somewhat automatic, in a sense that when you have visited a food shop before, the new transaction is automatically categorized as a food expense, and the user can then change it if needed.

As of now the accounts and transactions have to be manually added by users. This is not ideal, but it is a start. Later in development this can be added with the help of a fitting API.

### 3 Application UI

As the general design of this application, the keyword for the User Interface is simple.

#### 3.1 Dashboard View

This view shows user added account and their balances, Today's spending statistics and a list of last transactions.

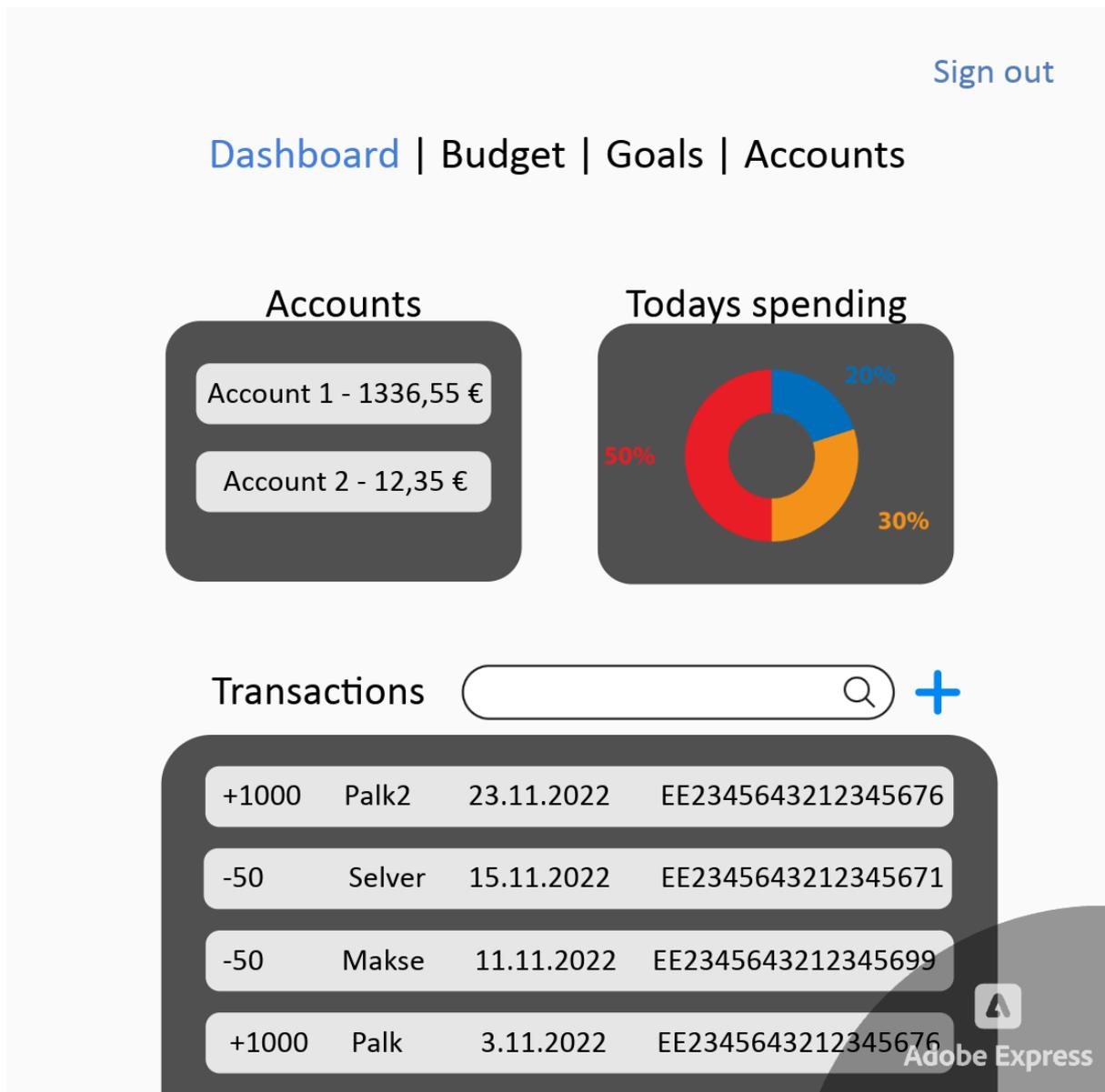


Figure 1. Dashboard view

## 3.2 Budget View

This view shows budget information about current budget's spending, and also spendings in different categories.



Figure 2. Budget view

### 3.3 New Budget View

This view shows how a new budget is added. User can add categories and their goals into the budget.

Sign out

Dashboard | Budget | Goals | Accounts

### New Budget

Budget Name

Start date

End date

### Adding categories to budget

Choose a category

Budget for category  €

Add Category

### Categories in Budget

Food	Budget: 500 €
Transport	Budget: 200 €
Bills	Budget: 750 €

Submit Budget

Adobe Express

Figure 3. Add Budget view

## 4 ERD schema

