

# **Program Specification**

## **Wallet (Incomes and Expenses)**

### **Program Overview**

The Wallet program is full-fledged finance management software that aids users in calculating their income and expenses. It offers a structured solution for individual management of funds by enabling the importation of all transactions into one database. This program focuses at offering users a journey into their financial activities, in a sorted manner to facilitate easy analysis of how they spend, control their spending and assist in achieving their financial targets.

### **Key Features**

The wallet program has a variety of services meant to assist the user in their financial management experience. To begin with, it has strong data storage which allows the storage of various information concerning the user's income and expenditure. Every entry in the database has the date (year, month and date), the kind (income or expenditure), the type (household, food, travel etc) and the value which can be in any currency like HUF and EUR. This way users are able to keep track of their finances well without having issues with the currency being used.

Also the program provides advanced data base operations allowing the users to control their financial records properly. The users have the option of loading a stored up database into the active memory or making a new one if none is available. The add entry mode enables new users to easily make income or expenditure entries. Moreover, modifying interfaces enable the user to make alterations on previously input entries, remove certain entries that are of no longer practical values to them and give the option of saving the database from the primary memory to the flash disk so that they do not carry the risk of losing their latest records. On top of that, users can set up more categories in line with their financial behaviors which makes it more interesting.

Another important aspect of the Wallet application is financial analysis. All users can observe their total expenses and incomes, the most expensive category, and how much one has spent in that category. The application renders a statement of the user's balance, hence giving an overview of his or her financial status. Also, the program provides a time period analysis feature, which users may use to set a certain date range and view the statistics per category. This includes total spent, total income, the highest expenditure per category which provides an insight to the users on their financial behavior within the supplied timeframe.

### **Benefits**

Many advantages can be gained through the use of the Wallet program by users, enhancing their enhancive financial education and managementtal abilities. Users are more likely to track and

analyze their use of money leading to better appreciation of financial trends as well as the need for changes to spend or save in different ways. The excellent features and ease of use of the program available to a wide range of individuals due to the user friendly command center and adjustable categories which meets the user's specific requirements.

The other remarkable aspect of this program is its adaptability as it allows for the inclusion of several currencies as well as a breakdown of figures over a specified time frame. This is appropriate for consumers in different financial conditions, offering interim analysis to aid in proper budgeting. As a conclusion, the Wallet program can be called a must-have application for everyone, who aspires to enhance their financial management capabilities and wants to make smart financial choices.

## User Inputs and Outputs

The application expects the following data to be provided by the user concerning each transaction.

Date: This has to be given in the format, YYYY/MM/DD.

Type: Specify whether income or expense.

Category: Use the provided options or add new ones.

Amount: This is the transaction value entered as an integer or decimal number.

The application also provides feedback and output for every action performed:

Load Database: States if the database loading was successful or not and what the exceptions were.

Add Entry: Assertion of a new entry and availability of a synopsis.

Edit Entry: Provision of the enhanced details after editing has taken place.

Delete Entry: An assertion of the deletion and an update on the transactions available.

Save Database: An indication that the database has been saved successfully.

Display Totals: This indicates total income, total outgoings, the entire balance, and which category was most costly.

Display Statistics: It gives analysis regarding every category implemented within the specified period.