# Start Document – Personal Finance Tracker

## Project Description

The Personal Finance Tracker is a desktop application built with C# and WPF using the .NET 6/7/8 framework. It is designed to help users manage their personal finances by tracking income, expenses, and budgets over time. The application supports transaction categorization, summary visualizations and persistent local storage.

The main goals are to:

* Provide a user-friendly UI for managing financial data
* Apply best practices in software architecture (MVVM)
* Demonstrate core concepts such as **data binding**, **commands**, and **data persistence**

## Project Schedule

A schedule will be made to gatekeep the progress of this project. This schedule contains a set of activities from a broad perspective, to visualize what we will be working on, every week until the deadline. A schedule isn’t always perfect from the start, so there might be some errors and small corrections along the way, to meet our goal at the end of the road.

This project started on Wednesday, the 4th of June 2025, and will end on Friday, the 27th of June 2025.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Dates\* → | 4th | 5th | 6th | 9th | 10th | 11th | 12th | 13th | 16th | 17th | 18th | 19th | 20th |
| Practice in C# |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Start document |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Development |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Testing |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Presentation (video) |  |  |  |  |  |  |  |  |  |  |  |  |  |

*\* Dates in the month of June*

## Requirements Analysis (MoSCoW Method)

| **Priority** | **Requirement** |
| --- | --- |
| **Must** | Users can add, edit and delete income/expense transactions |
| **Must** | Data is stored locally using JSON |
| **Must** | Use of MVVM pattern for clean separation of concerns |
| **Must** | Application uses WPF with data binding |
| **Should** | Categories are configurable and color-coded |
| **Should** | Budget limits can be set per category |
| **Should** | Summary screen shows balance and totals for the month |
| **Should** | Basic chart for expense distribution (e.g., pie chart) |
| **Could** | Export to CSV or PDF |
| **Could** | Support for multiple user profiles locally |
| **Could** | Dark/light mode toggle |
| **Won't** | Cloud sync or multi-device sync |
| **Won't** | Real-time currency conversion or online banking integration |

## Screens

Afbeelding met tekst, schermopname, Rechthoek, diagram

Door AI gegenereerde inhoud is mogelijk onjuist.

Main dashboard with an overview of all the expenses and income.

Afbeelding met schermopname, tekst, ontwerp

Door AI gegenereerde inhoud is mogelijk onjuist.

Screen that allows the user to add or edit transactions.

Afbeelding met schermopname, tekst, Rechthoek, ontwerp

Door AI gegenereerde inhoud is mogelijk onjuist.

Transaction list where the user can see all her or his transactions.

Afbeelding met tekst, schermopname, Rechthoek, ontwerp

Door AI gegenereerde inhoud is mogelijk onjuist.

Budget screen that shows much has been spent on every category.

Afbeelding met tekst, schermopname, software, Multimediasoftware

Door AI gegenereerde inhoud is mogelijk onjuist.

Settings page where the user can adjust a couple of basic settings and export/import data.

## Class Diagram

Afbeelding met tekst, diagram, Plan, lijn

Door AI gegenereerde inhoud is mogelijk onjuist.