

Finance Manager App

Team: *Unhandled Exception*

Authors

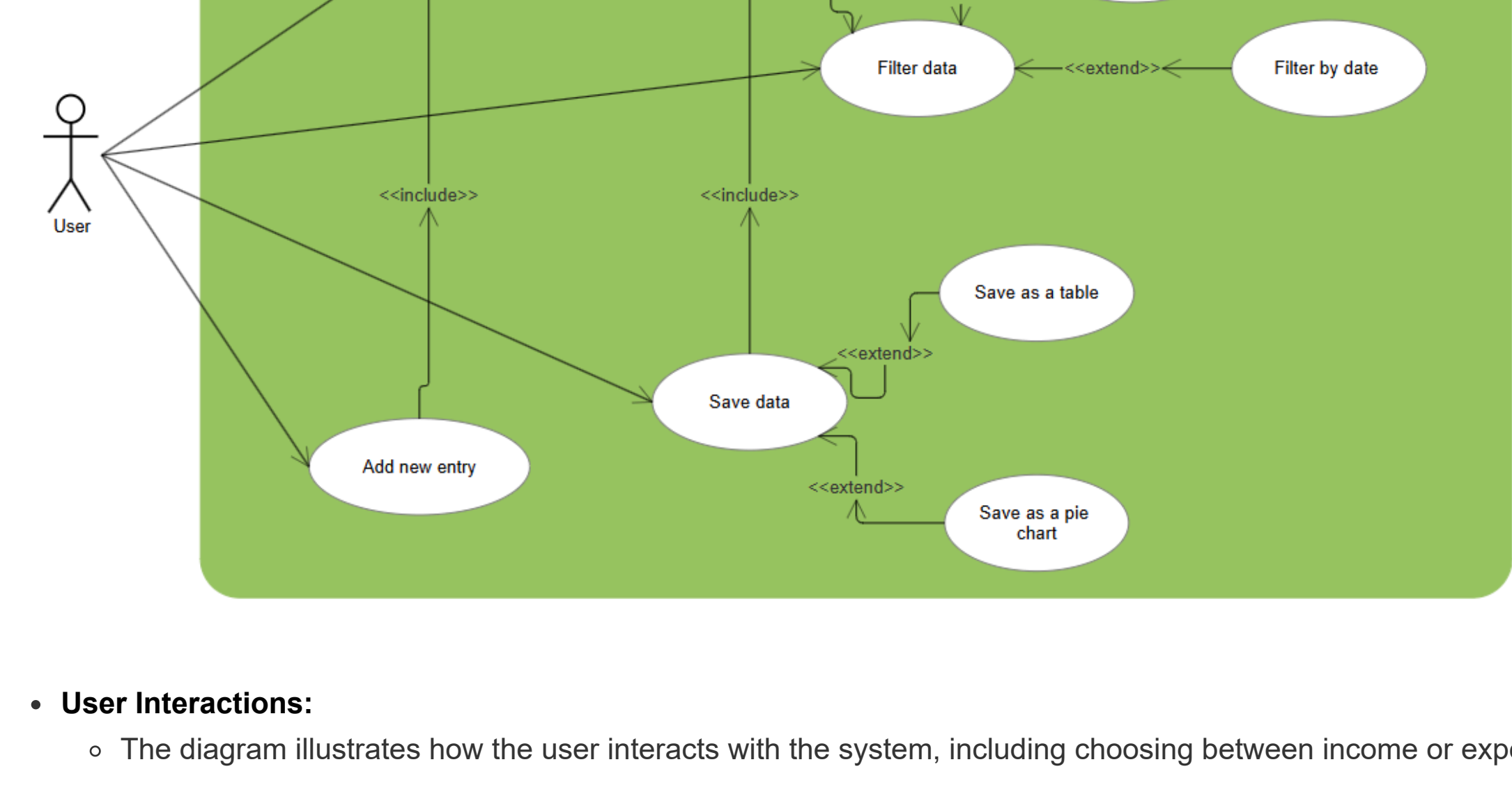
Name	Role
Robert Šatkevič	Backend Developer, Documentation Writer, Tester, Quality Assurance
Aurimas Vižinis	Frontend Developer, Documentation Writer, Presenter, Communication Specialist
Dominykas Pavlavičius	Programmer, Tester

Description

The Finance Manager App is a comprehensive tool designed to help users manage their finances effectively. It allows users to track income and expenses, apply filters, and visualize data through tables and pie charts. The app also supports exporting filtered data for further analysis.

Features Overview

Use Case Diagram

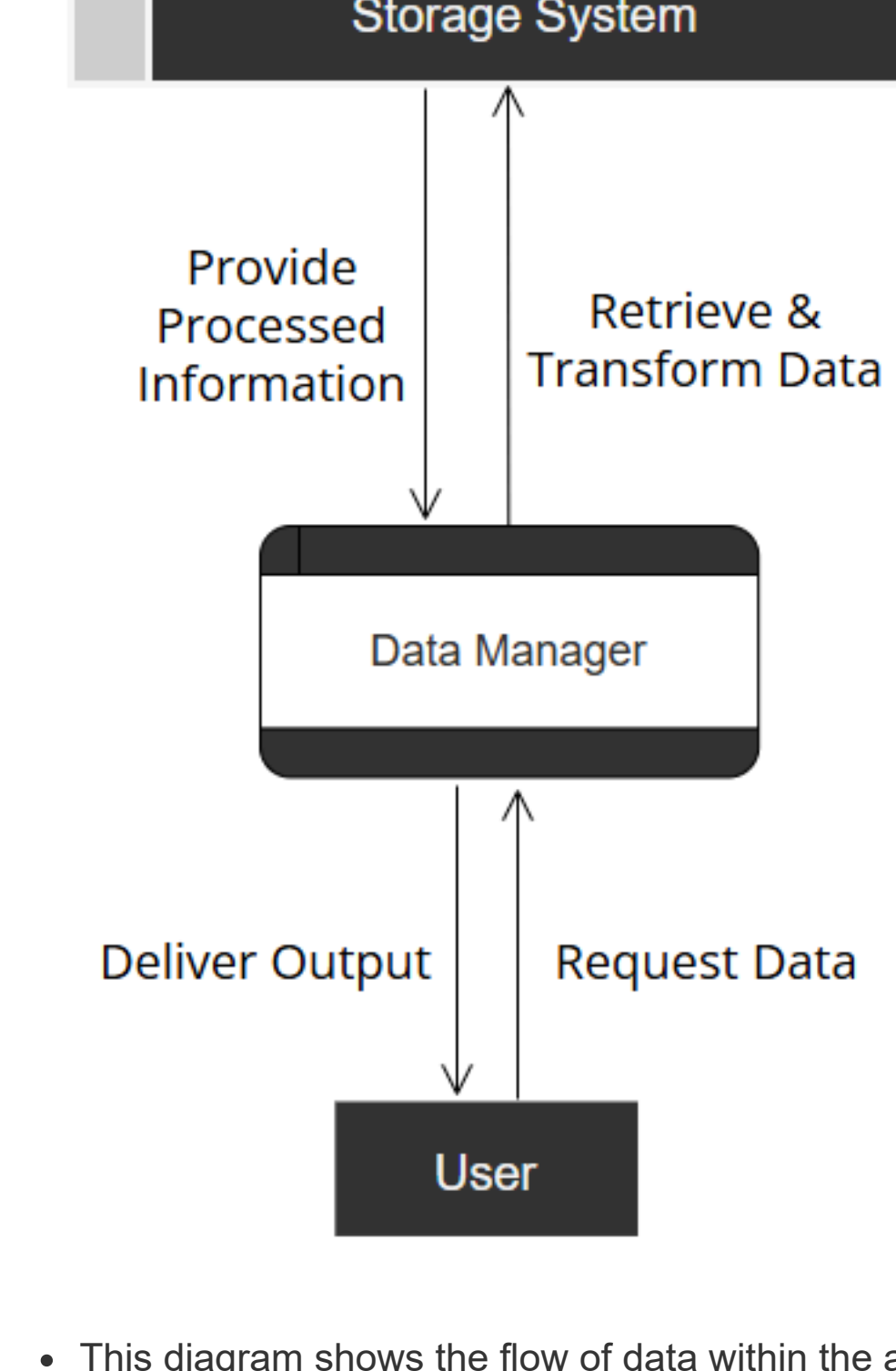


- **User Interactions:**
 - The diagram illustrates how the user interacts with the system, including choosing between income or expense views, adding new entries, filtering data by value, type, or date, and saving/exporting data as tables or pie charts.

Analysis

Data Flow Overview

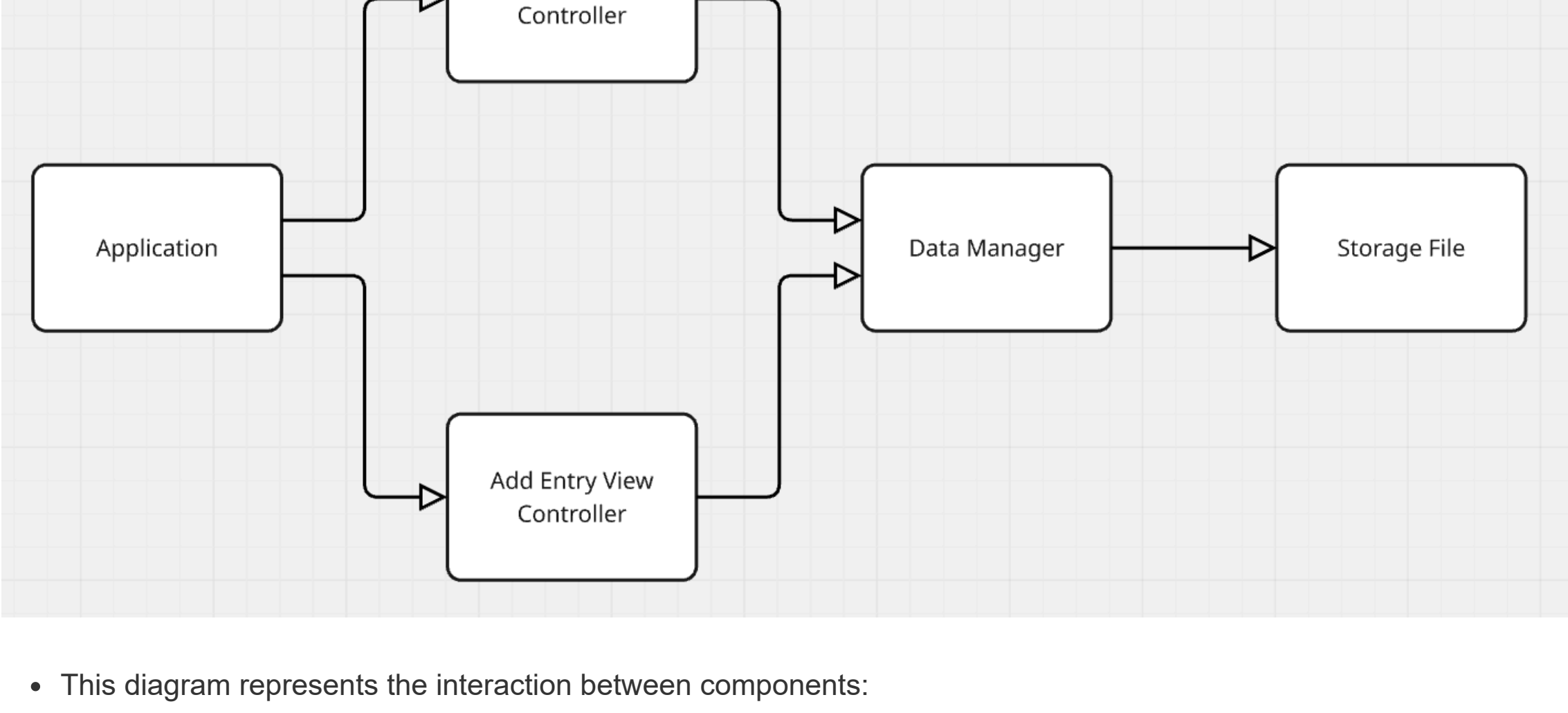
Flowchart Diagram



- This diagram shows the flow of data within the application:
 - User Input** is validated.
 - Valid data is saved to a **Storage File**.
 - Filters are applied to view data as a **Table** or **Pie Chart**.
 - Data can be exported or saved.

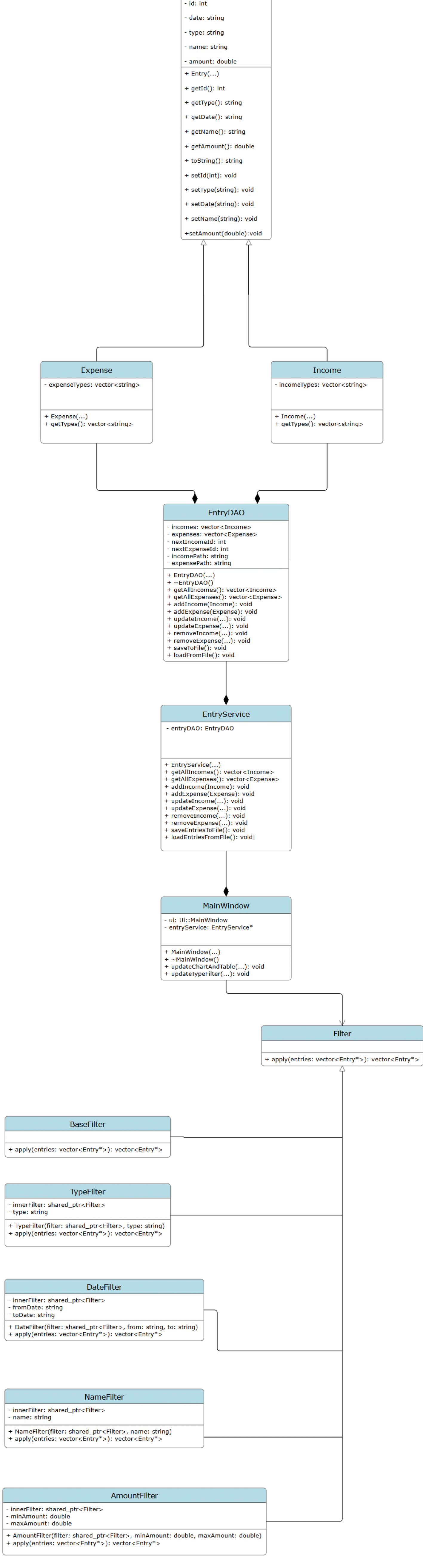
Application Flow

Component Interaction Diagram



- This diagram represents the interaction between components:
 - The **Application** communicates with **View Controllers** (Main and Add Entry).
 - **View Controllers** interact with the **Data Manager**, which handles data storage and retrieval from the **Storage File**.

Class diagram



Technology Stack

Layer	Technology Used
Frontend	C++, QT
Backend	C++
Storage	Local File System
Visualization	Pie Charts, Tables
Tools	QT Creator, Smartdraw, Git/GitHub

Work Contribution Log (LFF Format)

Aurimas Vižinis

- **2025-03-23** — 11:30—13:30 — 120 min
Activity: Programavimas
Comments: Frontend dalies programavimas
- **2025-03-26** — 11:00—13:00 — 120 min
Activity: Planavimas, PSP veikla
Comments: UML diagramos, pildoma laiko fiksavimo lentelė
- **2025-04-05** — 18:00—19:10 — 70 min
Activity: Atsiskaitymas
Comments: Klaidų taisymas: readme, UML diagramų taisymas
- **2025-04-25** — 15:30—16:30 — 60 min
Activity: Programavimas
Comments: Frontend dalies koregavimas bei atnaujinimas
- **2025-05-07** — 13:00—15:00 — 120 min
Activity: PSP veikla, Komandinis darbas
Comments: Klasų diagrama
STAGE 3
- **2025-05-28** — 12:00—13:00 — 60 min
Activity: Programavimas
Comments: Front-End pakeitimas

Robert Šatkevič

- **2025-03-26** — 11:00—13:00 — 120 min
Activity: Planavimas, PSP veikla
Comments: UML diagramos, pildoma laiko fiksavimo lentelė
- **2025-04-05** — 18:00—19:10 — 70 min
Activity: Atsiskaitymas
Comments: Klaidų taisymas: readme, UML diagramų taisymas
- **2025-04-24** — 09:00—11:30 — 150 min
Activity: Programavimas
Comments: Backend dalies kodavimas (DAO, service, model)
- **2025-05-07** — 13:00—15:00 — 120 min
Activity: PSP veikla, Komandinis darbas
Comments: Klasų diagrama
STAGE 3
- **2025-05-27** - 15:00-15:30 - 30 min
Activity: Programavimas
Comments: Exportavimo feature
- **2025-05-27** - 16:00-16:30 - 30 min
Activity: Projektavimas, Programavimas
Comments: Tobulinimas esamų klasių

Dominykas Pavlavičius

- **2025-04-25** — 10:00—11:40 — 100 min
Activity: Kodo peržiūra, Programavimas
Comments: Sujungiau Backend su Frontend
- **2025-05-07** — 13:00—15:00 — 120 min
Activity: PSP veikla, Komandinis darbas
Comments: Klasų diagrama
STAGE 3
- **2025-05-28** — 18:00—19:00 — 60 min
Activity: Programavimas
Comments: Filtrų cpp failai
- **2025-05-29** — 21:00—22:10 — 70 min
Activity: Programavimas
Comments: Sujungti filtrai su Front-end