

PLAN YOUR FUTURE FINANCES

Personalized Insight

Add spending limits

Visualize your spending

Real-Time Data



Personal Finance Manager

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Changes from SDD

We Originally Planned to use:

- Dear ImGui for UI
- MatPlot++ for graph rendering
- SQL for managing user data
- CMake to allow easier cross-platform development

We ended up using:

- Qt for UI and graph rendering
- SQLite for managing user data
- CMake and Qt Creator for cross-platform development

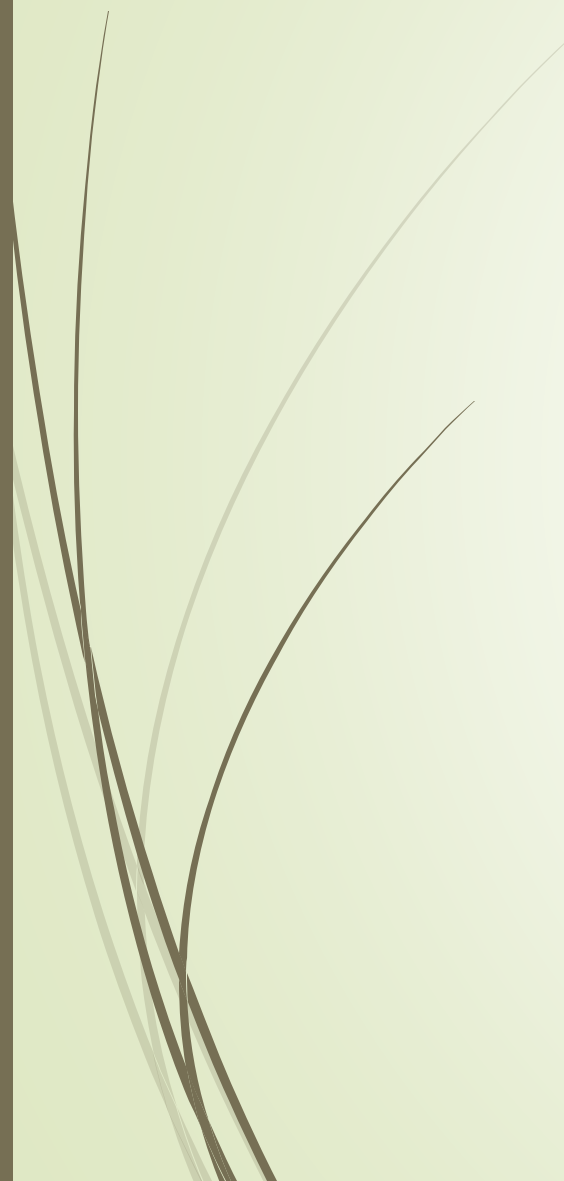
- 
- Dear ImGui is a bad choice for a UI desktop app.
 - SQLite allows us to save data locally during development and allows us to switch to a remote database down the line.





Run-through





Personal Finance Manager

Personal Finance Manager

Perfect for Students

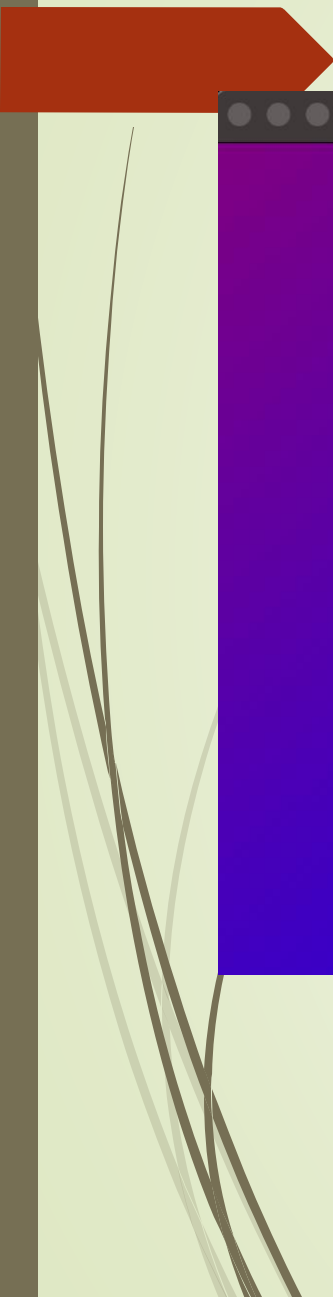
Login

Login

Forgot your password?
Don't have an account?

[Reset](#)
[Register](#)





Personal Finance Manager

Personal Finance Manager

Reset Password

Enter your email:

Cancel

OK

Password

Login

Forgot your password? [Reset](#)

Don't have an account? [Register](#)

Register

Name

Username

Email

Password

Confirm Password

Register





Transactions

Income & Expense Tracker

Expense

utilities

Transaction Range

Daily

Weekly

✓ Monthly

Amount: 80

Add Transaction

Type	Date	Transaction Range	Desscription	Amount
Income	11-28-2024	Weekly	Wages	1500.00
Expense	11-28-2024	Weekly	Groceries	-175.00
Expense	11-28-2024	Monthly	rent	-875.00
Income	11-28-2024	Monthly	Investments	500.00
Expense	11-28-2024	Monthly	phone bill	-45.00
Expense	11-28-2024	Monthly	utilities	-80.00

Current Balance: 825.00



Budget

Budgeting Goals

Set a New Goal

Goal Name:
new car

Target Amount:
15000

Deadline:
2026-02-01

Set Goal

Existing Goals

Goal Name	Target Amount	Current Savings	Deadline	Actions		Progress
Travel	5750.00	500.00	12-31-2025	Edit	Delete	<div></div>
Online Shopping	500.00	250.00	01-31-2025	Edit	Delete	<div></div>
New car	15000.00	1000.00	02-01-2026	Edit	Delete	<div></div>

Budget

Budgeting Goals

Set a New Goal

Goal Name:
new car

Target Amount:
15000

Deadline:
2026-02-01

Set Goal

Set Savings

Enter current savings:
1000.00

Cancel OK

Existing Goals

Goal Name	Target Amount	Current Savings	Deadline	Actions		Progress
Travel	5750.00	500.00	12-31-2025	Edit	Delete	<div></div>
Online Shopping	500.00	250.00	01-31-2025	Edit	Delete	<div></div>



Bar Chart

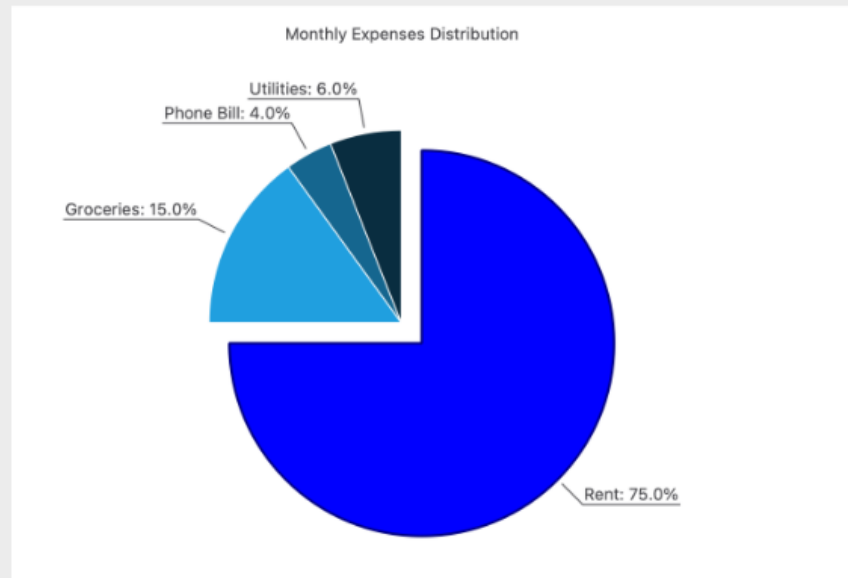
Line Graph

Pie Chart

Select Date Range:



Spending Visualization



Settings

Logout

Update Personal Information

Email:

Password:

Confirm Password:

Update Information

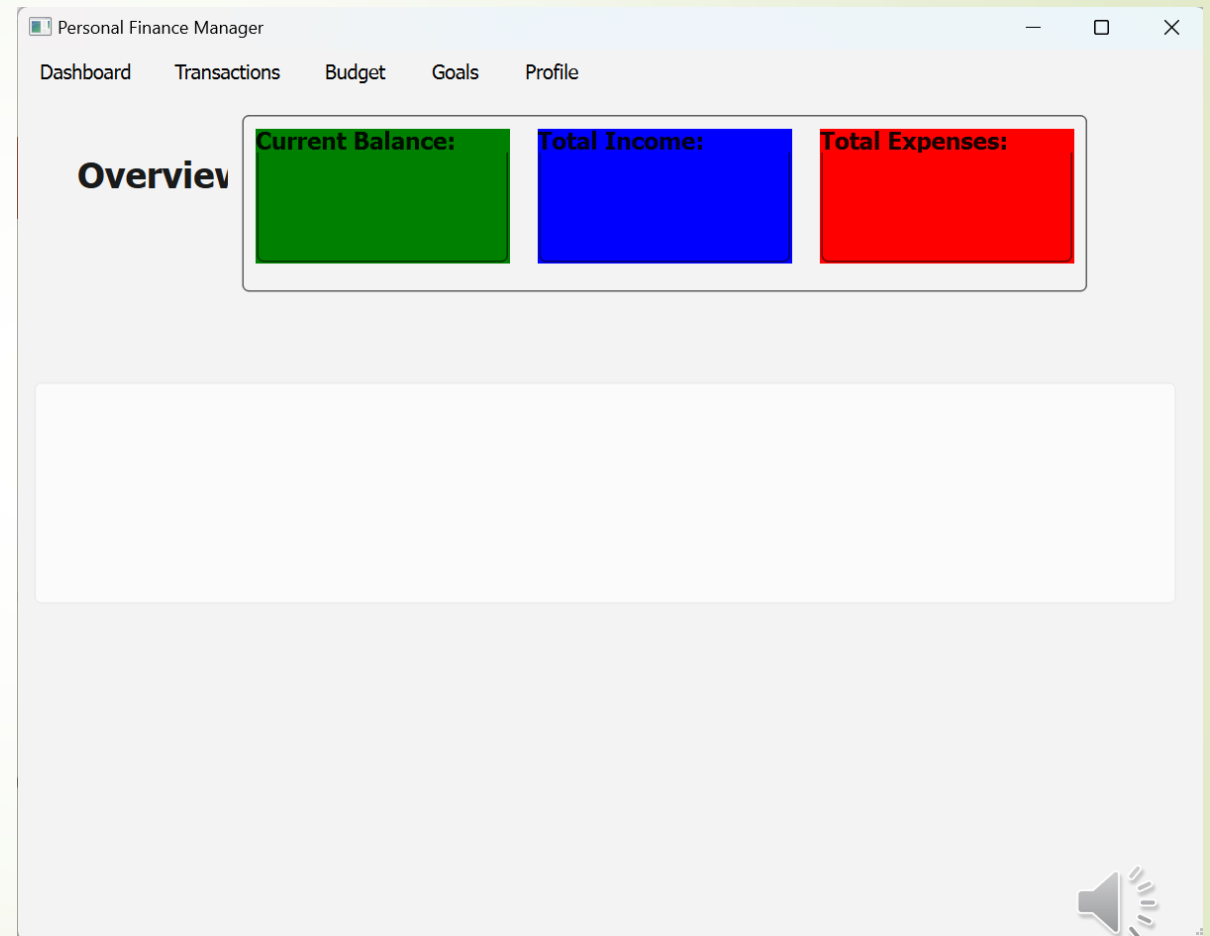




What's left?

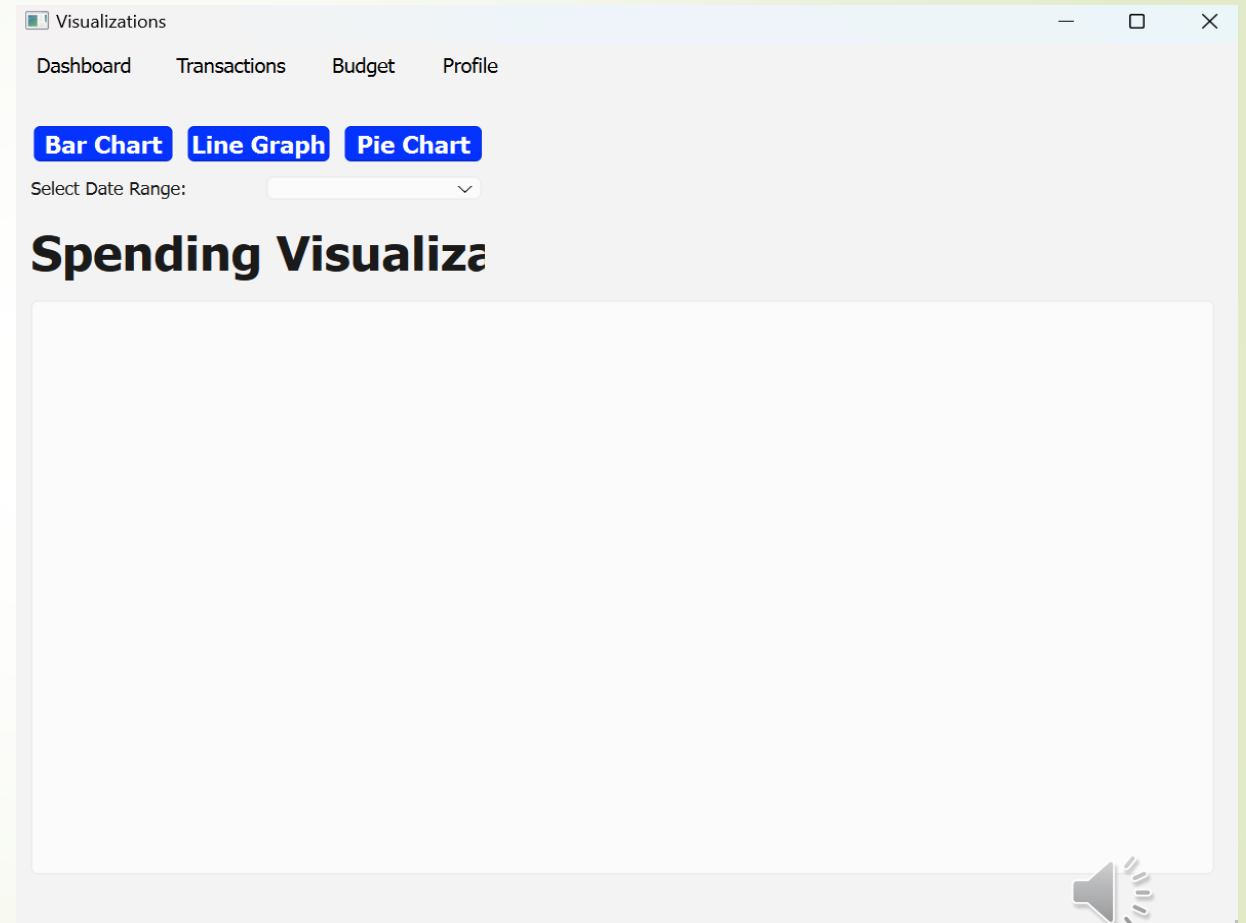
Visualizations from the database

Dashboard overview

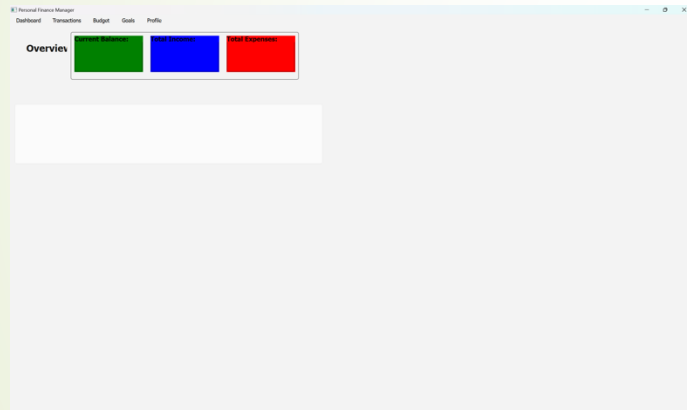


Visualizations from the database

Goal's visualization



Adaptation issues



Current Savings



Timeline and Work Distribution

- Group meetings
- Internal deadlines
- Frontend and Backend Teams





Challenges We Faced

Hardware & Software

- ▶ These are some of the challenges and difficulties that we face with the code itself:
 - ▶ Difficulties setting up QT and issues with obtaining education licenses
 - ▶ Interesting workflows caused by unknown content
 - ▶ Issues setting up and integrating across 3 different operating systems (Mac, Windows, Linux)

Conceptual Road Blocks

- ▶ These are some of the challenges and difficulties that we face with the planning process:
 - ▶ Being too ambitious with our initial plans and not having a well-defined scope
 - ▶ Underestimating time commitments and general availability





What We Would Do Differently

- Communication
- Organization



Communication and Organization

