

## Scope of Work Document

**DUE\_ Wednesday Oct 15, 2025**

**Scope of Work (SOW)** - Is an agreement between an employee/contractor and employer outlining services work to be completed by the employee. SOW's are used commonly in technology jobs and contract work.

Please submit your Scope of Work Document detailing the project you plan to complete. You will also include your SOW with your Final Project PowerPoint/Slideshow)

## Student Project – Scope of Work (SOW)

**Project Title:** \_\_\_\_\_ Personal Expense Tracker \_\_\_\_\_

**Student Name:** \_\_\_\_\_ Maokuan Zhang \_\_\_\_\_

**Date:** \_\_\_\_\_ October 15, 2025 \_\_\_\_\_

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### 1. Project Overview

(Write 2–3 sentences about what your project will do.)

My project “Personal Expense Tracker” allows multiple users to create individual accounts, login in securely, and manage their daily spending.

Users can record, review, edit and delete their expenses by date, category, and amount, and set a personalized monthly budget.

The project also provides real-time financial feedback - showing users how much budget users have left when users are under their limit, how much users are over budget when they are over, and financial advice.

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### 2. Goals

- Create a C++ project that allows multiple users to create accounts and securely manage their expense data.

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- Implement functions for recording, viewing, editing, and deleting expenses by date, category, and amount.
  - Allow users to set a monthly budget and automatically save and read their financial data using file storage.
  - Provide real-time financial suggestions, displaying how much is remaining or exceeding the budget.
  - Help users develop better financial habits through ongoing expense tracking and financial advice.
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### 3. Deliverables

- Program files contain main.cpp, ExpenseTracker.h, and ExpenseTracker.cpp.
  - Output.pdf contains screenshots and descriptions of key program features, including user login, expense management, budget tracking and financial feedback. It also includes sample output.
  - GitHub submission A public repository with a clear and organized file structure, containing all program files, Output.pdf, and a README.md file.
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### 4. Timeline

- Week 8-9: Define the project structure, the class design and create a Github repository.
  - Week 10: Implement core functions: users create account, log and expense management(add, view, edit, and delete).
  - Week 11: Add budget settings, file saving/loading, financial suggestions. and testing, debugging.
  - Week 12: Conduct final testing, prepare the Output.pdf file, youtube video, presentation powerpoint.
  - Week 13: Submit final project using github and Ready to demo by December 10,25.
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### 5. Success Criteria

- The project compiles and runs without errors.
- Support multiple users with independent data files.
- Correctly record, view, edit and delete expense entries.
- Provide real-time financial feedback and suggestions.
- Output.pdf includes screenshots, description and sample results.
- All files are uploaded to Github and submitted on time.