Expense App Development Project

Final Progress Report

Pocket Protectors

Team Leader: Anna Dinius

Team Members: Dillon Carpenter, Cody King, Jeff Perdue

Project Duration: September 8 – November 23, 2025

Sprints: 2 (Sprint 1: 5 weeks, Sprint 2: 5 weeks)

Project Overview

🎯 Mission Statement

Empower users to take control of their finances through a simple and secure expense tracking.

📍 Repository

GitHub: https://github.com/Anna-Dinius/ASE-456-Expense-App/tree/main

The Problem

‼️ Why This Application Matters

Challenge: disorganized personal finance tracking

💡 Why It's Important

- Empowers better financial decisions by providing users with a clear, intuitive platform to log, categorize, and visualize their spending

How We Solved It

🔄 **Development Process**

Agile Sprint Methodology:

- **Sprint 1:** MVP foundation, refactoring, & feature additions
- **Sprint 2:** Higher emphasis on feature additions

Team Coordination:

- Clear feature ownership
- Regular progress updates
- Regular integration

Individual Contributions - Dillon Carpenter

Sprint 1 Achievements

- **Features:** 1
  - Scheduled & recurring transactions
- **Requirements:** 7

Sprint 2 Achievements

- **Features:** 3
  - Search expenses
  - Filter expenses
  - Sort expenses
- **Requirements:** 19

Total Contribution

- **Features:** 4 total
- **Requirements:** 26 total

Individual Contributions - Cody King

Sprint 1 Achievements

- **Features:** 1
    - User profiles
- **Requirements:** 6

Sprint 2 Achievements

- **Features:** 2
    - Track savings
    - Create savings goals
- **Requirements:** 9

Total Contribution

- **Features:** 3 total
- **Requirements:** 15 total

Individual Contributions - Jeff Perdue

Sprint 1 Achievements

- **Features:** 1
  - Categories
- **Requirements:** 5

Sprint 2 Achievements

- **Features:** 3
    - Create budgets
    - View charts summarizing expenses
    - View & export periodic reports
- **Requirements:** 7

Total Contribution

- **Features:** 4 total
- **Requirements:** 12 total

Code Quality Metrics

✅ Quality Indicators

- **Test Coverage:** 437 comprehensive test cases

- **Code Organization:** Clear module separation

- **Documentation:** Comprehensive user manual & architecture design docs

- **Error Handling:** Robust validation and exceptions

- **Maintainability:** DRY principles, reusable components

📈 **Quality Assurance - Test Distribution:**

- **Unit Tests:** Core logic validation

- **Integration Tests:** Feature interaction

- **Acceptance Tests:** User scenarios

- **Regression Tests:** Cross-sprint validation

- **End-to-End Tests:** Workflow validation

Sprint Achievements Summary

🎯 **Sprint 1 (MVP)**

- ✅ Working Expense App
- ✅ Scheduled & recurring transactions
- ✅ Categories
- ✅ User profiles
- 🔥 **Burndown:** 100%

🎯 Sprint 2 (Enhancement)

- ✅ Track savings
- ✅ Create savings goals
- ✅ Create budgets
- ✅ View charts summarizing expenses
- ✅ View & export periodic reports
- ✅ Search, filter, & sort expenses
- 🔥 **Burndown:** 100%

Key Numbers - Total Project

📊 **Overall Statistics**

- **Total Lines of Code:** ~19,746
  - Source Code: ~10,909 lines
  - Test Code: ~8,837 lines
- **Total Features:** 11
  - Sprint 1: 3 features
  - Sprint 2: 8 features
- **Total Requirements:** 53
  - Sprint 1: 18 requirements
  - Sprint 2: 35 requirements

- **Total Tests:** 437 test cases
- 🔥 **Burndown Rate:**
  - Sprint 1: 100% (18/18 requirements)
  - Sprint 2: 100% (35/35 requirements)

Conclusion

🎉 **Project Success**

Delivered: A fully functional, well-tested expense tracking app

🎥 **Demo Video**

YouTube: https://www.youtube.com/watch?v=DHhRNxxmHgY

Thank You

Questions?

Repository: https://github.com/Anna-Dinius/ASE-456-Expense-App/tree/main