

## Personal Expense Tracker - Project Report

### 1. Introduction

Managing daily expenses is important. This project tracks expenses using Python basics.

### 2. Problem Statement

Users need a simple system to record, categorize, and analyze expenses.

### 3. Functional Requirements

- Add / view / delete expenses
- Category management
- Reports: totals, category-wise, highest expense

### 4. Non-functional Requirements

Usability, performance, reliability, maintainability.

### 5. System Architecture

Modules: main.py, expenses.py, categories.py, reports.py.

### 6. Design Diagrams

Use Case, Workflow, Sequence described in documentation.

### 7. Implementation Details

Python lists, dictionaries, and functions. Menu-driven interface.

### 8. Testing Approach

Valid/invalid input tests, empty lists, category deletion, report validation.

### 9. Challenges and Learnings

Error handling, modular structure, beginner-friendly logic.

## 10. Future Enhancements

Date-based expenses, file storage, CSV export, graphs.

## 11. Conclusion

A simple, effective beginner-level Python expense tracker.