Cross-Language Expense Tracker C++ and Python



Project Overview

- Purpose: Build and Compare Implementations
 - Expense Tracker Application
 - Add, Filter, Summarize Expenses
 - Compare C++ vs Python approaches



C++ Implementation

Features:

- Structs and Vectors for Data
- Smart Pointers for Memory Safety
- Manual Formatting and Iteration



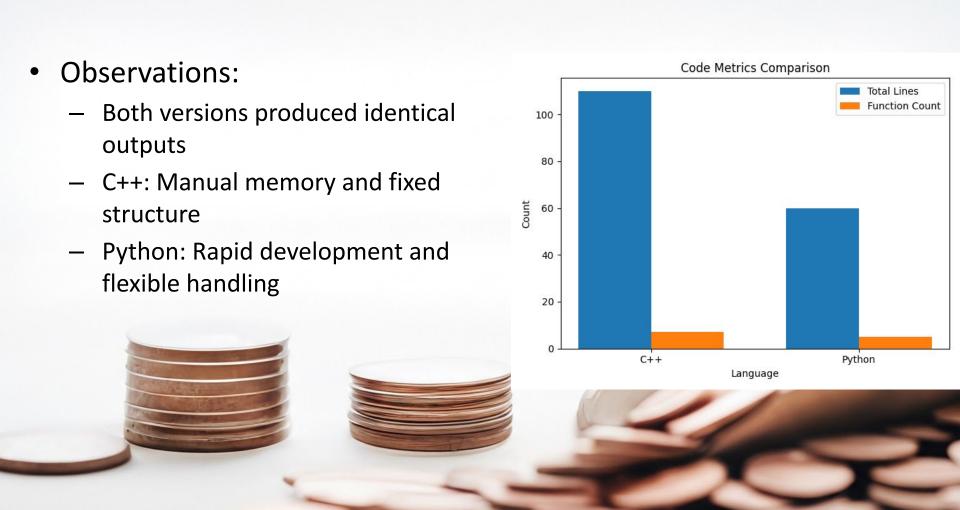
Python Implementation

Features:

- Dictionaries and Lists for Data
- Dynamic Typing and Garbage Collection
- List Comprehensions for Filtering



Demonstration Results



Key Differences and Insights

- C++: Strong Typing, Performance, Verbose
- Python: Rapid Development, Flexibility, Readable
- Trade-offs: Speed vs Productivity



Conclusion

Final Thoughts:

- Both languages succeeded
- Language choice depends on project needs
- Practical learning from implementation differences

