



Bank Account Manager

Team 5

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What We Built & What It Does

Bank Account Manager is a desktop banking application designed to manage personal finances in a secure and user-friendly environment. It provides the essential tools a user would expect from a personal banking system, all packaged in a simple and intuitive interface.

Core Capabilities:

- Account creation and secure login
- Deposits and withdrawals
- Transfers between chequing and savings accounts
- Viewable transaction history
- Option to securely delete account

What Users Can Do:

- Safely register and log in
- View and manage their account balances
- Move funds between account types
- Track previous transactions
- Close their account if needed



How It Works Behind the Scenes

We used Java as our primary programming language and built the interface using JavaFX.

Data is stored locally in CSV files, and we implemented SHA-256 hashing to ensure password security.

Development Stack:

- Java for core functionality
- JavaFX for the graphical user interface
- JUnit for logic testing
- CSV file system for storage
- SHA-256 for password protection (– a one-way hashing algorithm that securely converts passwords into unreadable values, preventing them from being stored in plain text)

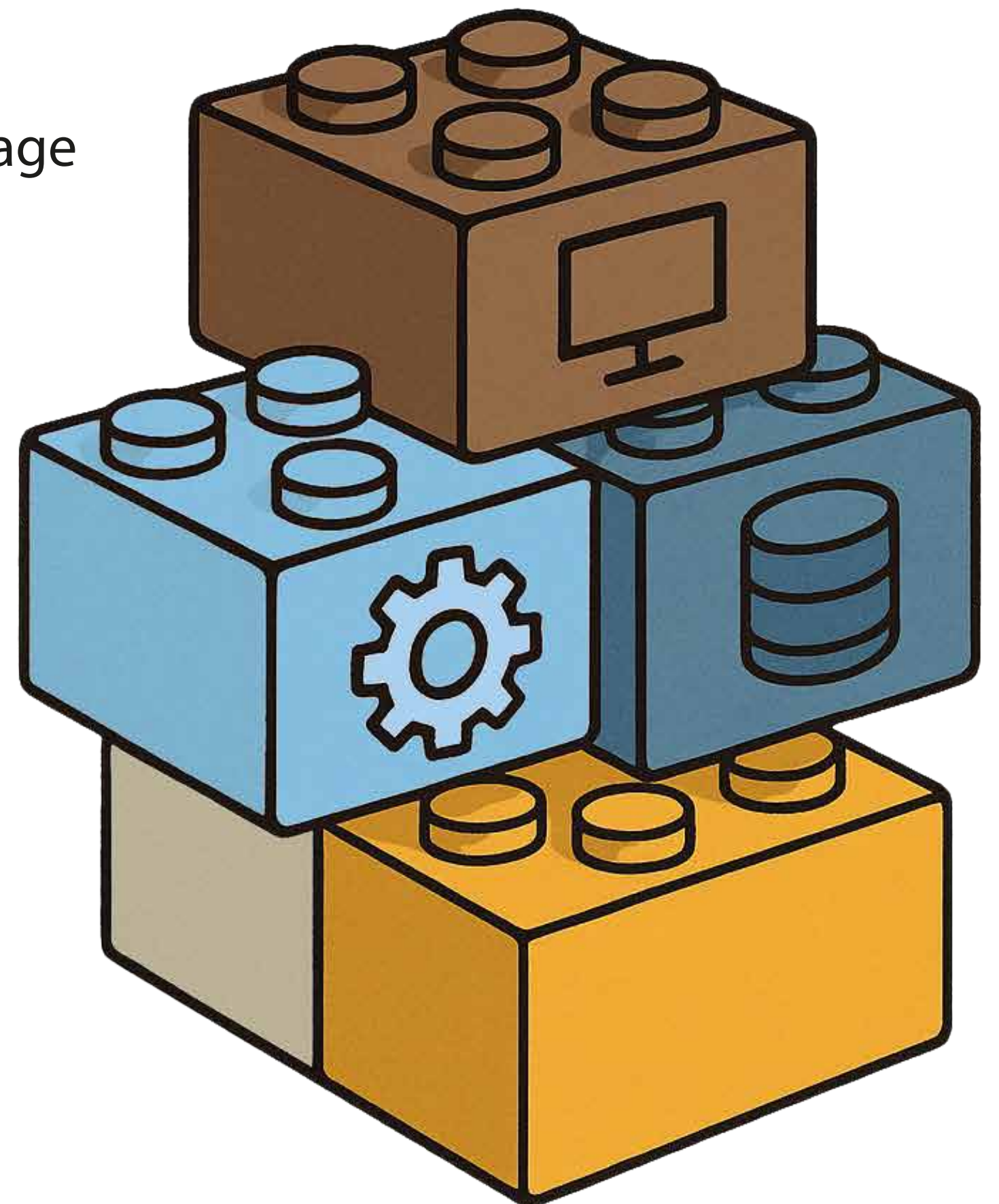


Design Goals and Principles

We mainly focused on keeping the architecture clean, easy-to-use, and modular. Each part of the system was built with future improvements in mind.

Main Focus Areas:

- Separation of interface, logic, and storage
- Clear and organized class structure
- Ease of testing and debugging
- Readable and maintainable code



Live Demo Time

We've covered what the app does and how we built it, and now we'd like to show it in action.

In this short demo, we'll walk through the key features and give you a quick look at how a user interacts with the system.

Let's jump into the demo.



Questions & Answers

That wraps up our presentation and demo.

If you have any questions about the project, how it works, or anything we covered — we're happy to answer!

Thanks for listening!

