AI-Driven Development Test: Banking REST Service

OVERVIEW:

You are tasked with developing a REST service that a bank would use. To complete the test in a short amount of time, you MUST use AI-driven development practices. This assessment evaluates your ability to leverage AI tools effectively to design and implement a banking service.

Project Requirements:

Core Components: You must develop the following components:

1. **Service Interface**
   - Signing up
   - Authentication
   - Account Holders
   - Accounts
   - Transactions
   - Money Transfer
   - Cards
   - Statements

2. **Database** (using SQLite)
   - Database implementation

3. **Test Suite** *(not a hard requirement as the focus is more on your code)*
   - Comprehensive test coverage for critical functionality
   - Unit tests for business logic
   - Integration tests for API endpoints

Technology Stack:
- Your choices of technologies will be judged against the nature of the application and how effective those technologies are in modern software development ecosystems

Getting Started
1. Begin development using your AI tools of choice

Deliverables

1. **Source Code**
   - All components (service, database, tests) in organized directories
   - Comprehensive test suite with good coverage
   - Configuration files

2. **Documentation**
   - README.md with setup instructions and API documentation
   - Security considerations document

- ● Future considerations/roadmap document

3. **AI Usage Report**
   - ● Tools used (Claude Code, ChatGPT, Cursor, Copilot, etc.)
   - ● Example prompts and iterations
   - ● Challenges faced and how AI helped solve them
   - ● Areas where manual intervention was necessary

4. **Bonus Points**
   - ● Test client application demonstrating the flow
   - ● Simple frontend interface

Ways of Working
1. Commit regularly with meaningful messages
2. Include your AI usage log as a Markdown file

Additional Notes
- ● You MUST use any AI tools available to you
- ● External libraries and frameworks are allowed
- ● Focus on demonstrating effective AI-driven development
- ● Partial implementations are acceptable if well-documented
- ● Security is paramount - ensure no secrets are committed