BankApplication - Project Report

1. Introduction

This project is a C# console application developed in the .NET environment. It simulates basic banking operations such as account creation, deposit, withdrawal, and balance checking. The main goal was to implement simple functionality while using file-based storage.

2. Features

- Each account has a unique auto-generated account number.

- Deposit and withdrawal amounts are validated.

- Real-time balance is calculated and displayed.

- All account information is stored in a CSV file named 'accounts.csv'.

3. Technologies Used

- C# Programming Language

- .NET 6 SDK

- CSV file storage using System.IO

- Git & GitHub for version control

4. Challenges Faced

One of the key challenges was ensuring that the CSV file is created and handled correctly. Another was handling invalid user inputs gracefully, such as non-numeric values or negative numbers. There were also difficulties during initial GitHub setup, especially with push/pull commands and commit structure.

5. Suggested Improvements

- Add user login and password protection for accounts.

- Include a transaction history for each account.

- Use a database (e.g., SQL Server) instead of CSV for data persistence.

6. Conclusion

The BankApplication provides a simple yet functional demonstration of common banking operations. By storing data in a CSV file, it ensures portability and ease of use. With further improvements, the application can be enhanced into a more complete system.

https://github.com/ernzcnltn/BankApplication.git

https://erenozcanaltin.atlassian.net/browse/KAN-1