

Banking API

Objective

Your assignment is to build an internal API for a fake financial institution using C# and .NET.

Brief

While modern banks have evolved to serve a plethora of functions, at their core, banks must provide certain basic features. Today, your task is to build the basic HTTP API for one of those banks! Imagine you are designing a backend API for bank employees. It could ultimately be consumed by multiple frontends (web, iOS, Android etc).

Specifications

- Implement assignment using:
 - Language: C#
 - Framework: .NET
- There should be API routes that allow them to:
 - Create a new bank account for a customer, with an initial deposit amount. A single customer may have multiple bank accounts.
 - Transfer amounts between any two accounts, including those owned by different customers.
 - Retrieve balances for a given account.
 - Retrieve transfer history for a given account.
- Write tests for your business logic

Feel free to pre-populate your customers with the following:

```
[
  {
    "id": 1,
    "name": "Dimitri Bojarowv"
  },
  {
    "id": 2,
    "name": "John Schmidt"
  },
  {
    "id": 3,
    "name": "Volker Deutschmann"
  },
  {
    "id": 4,
    "name": "Dominik Kolumbus"
  }
]
```

You are expected to design any other required models and routes for your API.

Evaluation Criteria

- C# best practices
- Completeness: did you complete the features?
- Correctness: does the functionality act in sensible, thought-out ways?
- Maintainability: is it written in a clean, maintainable way?
- Testing: is the system adequately tested?
- Documentation: is the API well-documented?

Submitting your code

Please organize, design, test, and document your code as if it were going into production - then push your changes to the master branch. Utilize a **private** Git repository. After you have pushed your code, you may submit the assignment.

All the best and happy coding.