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Project proposal

Bank management system

Project description

Bank Management System will be a Windows desktop application designed by Ksenia Studilina and Saulo Moreira da Silva in C# programming language using the Visual Studio software. The main goal of this intended program is to facilitate management of all customer/account/transaction related activities performed by a branch representative. In a second phase, we'll also implement functionalities for the bank's client.
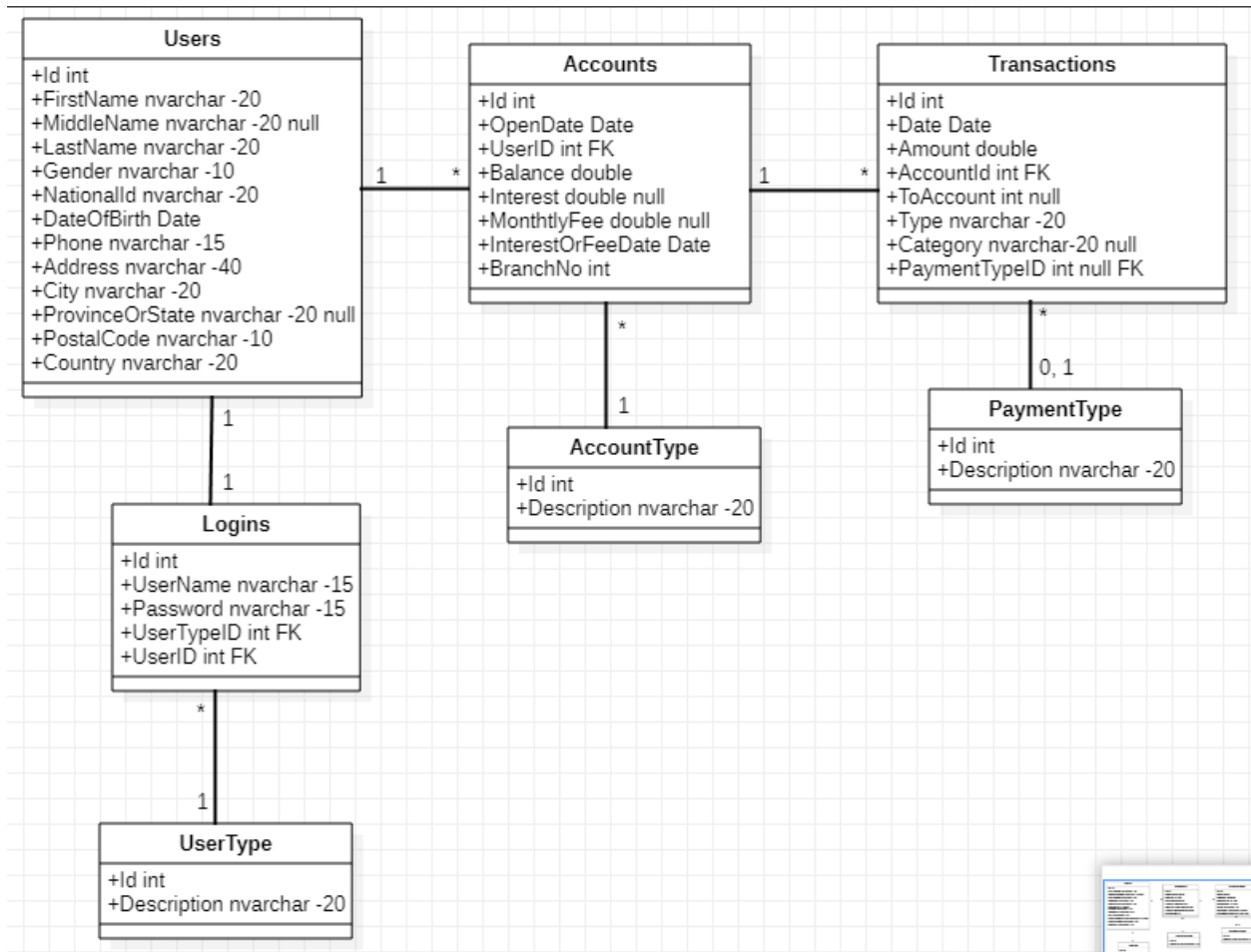
The software in its first version will contain four main sections: 1) Manage clients, 2) Manage Accounts, 3) Perform Transactions and 4) Generate reports. The first section will allow the branch representative to create new profiles for the bank (from new customers), as well as update any information (like an address change, for example) or even delete a client who is no longer doing business with the bank.

In the second section (Manage Accounts), the branch representative will have the power to add a new account to the customer's profile or update anything related to it; while in the third section, through client's authorization, he or she would be able to perform transactions such as deposit, withdrawal and transfer to another account. Finally, the last section will be useful to generate reports such as Statement and possibly also credit score, among others.
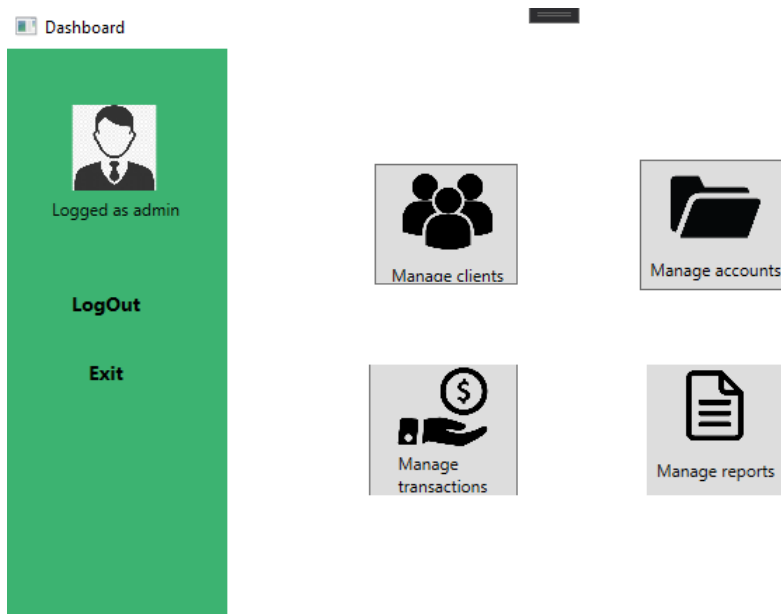
Technologies used

- WPF, C#
- SQL Database (Azure)
- Entity Framework
- StackPanel
- iText 5 .NET PDF library
- Printing using WPF
- Installer

Database design

Application mockups

Dashboard (main window)

Manage customers

ManageClients

Search by Id: [   ] [Find]

Id	Full Name	National Id	DOB	Address

[Add]   [Update]   [Delete]

[Exit]

Add new customer

Add New Customer

First name: [   ]

Last name: [   ]

Phone: [   ]

Date of birth: [Select a date   📅]

Address: [   ]

City: [   ]

Province: [   ]

Country: [▾]

Postal code: [   ]

Gender: ◉ Male ○ Female ○ Other

[Cancel]   [Save]

Manage accounts

ManageAccounts

Search customer by national id: [   ] [Find]

Customer found: Thomas Chapais, national id 45678TY

Customers accounts:

Id	Account type	Date of opening	Balance

[Add]   [Update]   [Delete]

[Close]

Manage transactions

Transfer