Project Report

Hi-Tech Order Management System(C#)

Zhibo Zhang

14/04/2019

Project Description

1. Features:

Hi-Tech Order Management System helps the company (Hi-Tech Distribution Inc.) to manage the information of books, And the user in the system has access to the information and the user can modify it at the same time.

1. Users and Operations:

MIS Manager

(Henry Brown)

• Save/update/delete employee information

• Search/list employee information

• Save/update/delete user information

• Search/List user information

Sales Manager

(Thomas Moore)

• Save/Update/Delete client information

• Search/List client information

Inventory Controller

(Peter Wang)

• Save/update/delete product information

• Search/List product information

Order Clerks

(Mary Brown)

(Jennifer Bouchard)

• Save/Update/Cancel clients’ orders

• Search/List clients’ orders

1. Technologies used to develop the application

It was developed in C# in Visual Studio 2017 according to the Object-Oriented Programming Principles.

Project Development Process

1. Analysis:

In order to access the system, each user is required to enter his/her valid username and password. The user can change the password when needed. The list below are build-in users:

* User 1:

Username: Henry Brown

Password: 1234

* User 2:

Username: Thomas Moore

Password: 1234

* User 3:

Username: Peter Wang

Password: 1234

* User 4:

Username: Mary Brown

Password: 1234

* User 5:

Username: Jennifer Bouchard

Password: 1234

* User 6:

Username: Kim Hoa Nguyen

Password: 1234

1. Design:

GUI

* LoginForm
* MISManagerForm
* SalesManagerForm
* OrderClerkForm
* AccountantForm
* InventoryControllerForm

Application Domain (Business)

* Orders

Data Access Classes

* UtilityDB

Entity Framework Model

Dataset Model

1. Implementation:

Source Code Listings

1. Testing:

Test results of the application in well-defined table format

1. Deploying the Application:

Hardware and software requirements for the application: 2GB RAM, minimum 6 GB of free disk, Windows 8 or 10, and Visual Studio 2015 or 2017.

Conclusion

This project allowed me to put in practice and test the various software development techniques learned during this semester. The operation consists of a set of tasks that requires validations and system requirements from users. Moreover, during the project, I learned how to make connections between multiple classes or multiple forms. And when I have error in the code, I tried to figure out by myself and do some researches online to help me solve the problems. The purpose of this application is to provide convenience for the company. However, using classes, we can see how could be ease to implement and also reuse.