.Net Project

Inventory Management System

Team members:

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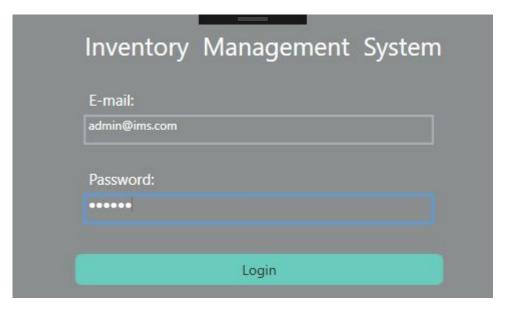
JohnAbbott College -IPD 15 November 13, 2018

Background of inventory manage system

- "A system to manage inventory and tracking operations"
- Through an inventory management system application, Softwares and hardwares help user to manage operations automatically with more efficiency and less cost.
- The application allows user:
- To record in/out orders information
- To keep stock in balance
- To update, add and delete information
- To Make report

Solution overview

Based on this multi-user application, many users can have access to the system by their own email and password to manage customers, products, in/out orders

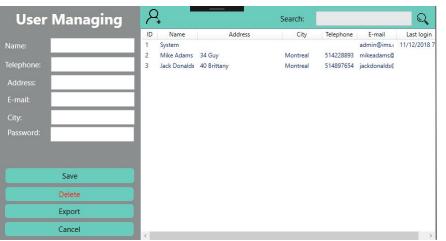


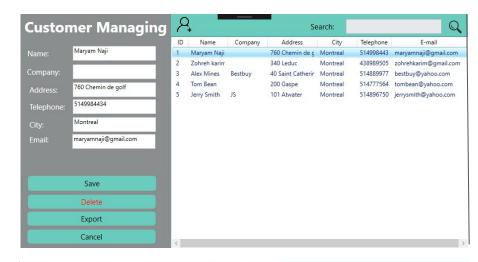
Functionalities:

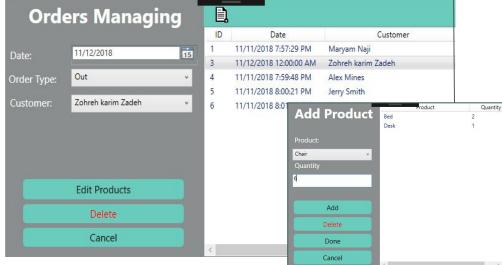
Adding image for products

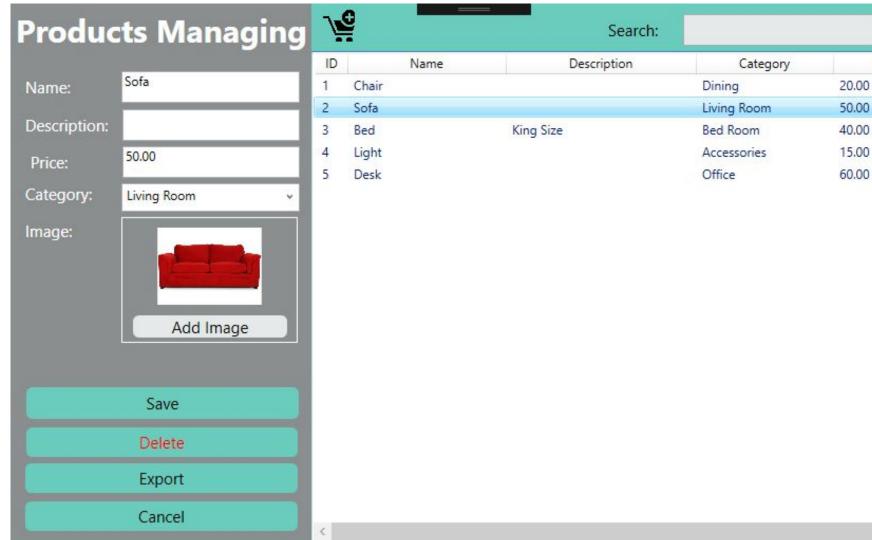
Search for customers, products and





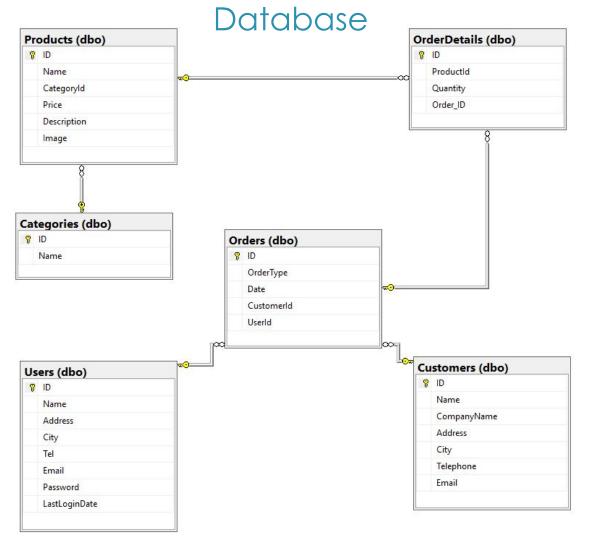






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Price



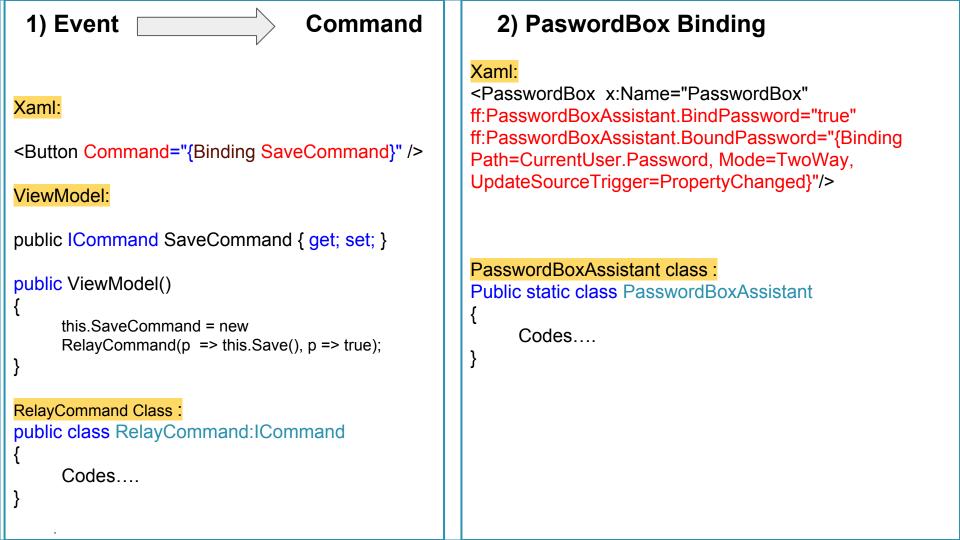
Technologies

- WPF
- Database via Azure
- Unit tests
- EntityFramework
- Export to Excel
- LINQ
- MVVM

 The biggest challenge
- Storing binary data in a BLOB

The three biggest challenges

- Moving event handler from code behind to ViewModel
- Binding Password box
 (For security reasons, the Password property is not implemented as a dependency property, which means that it can not be binded.)
 - Implement Property Change Notification(Textbox and Listview)

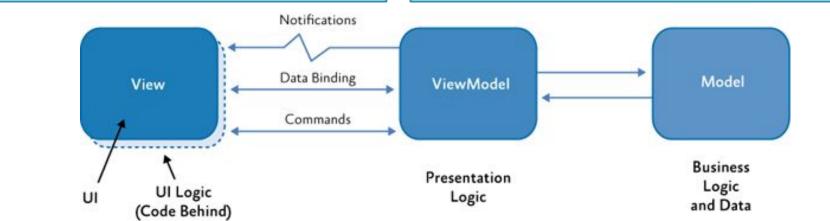


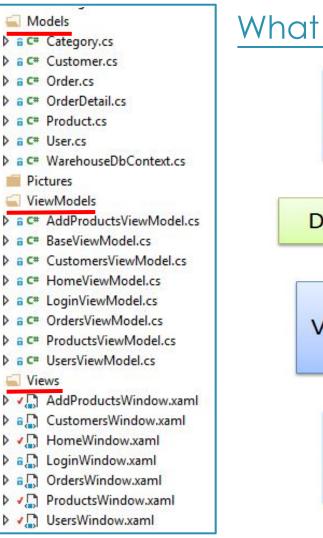
public class BaseViewModel : INotifyPropertyChanged {

3) Implementation of INotifyPropertyChanged

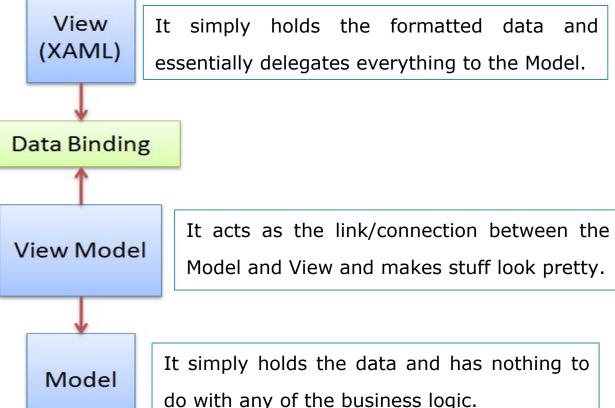
protected void OnPropertyChanged(string name)
{
 codes...
}

public class ViewModel: BaseViewModel private List<Customer> _customerList; public List<Customer> CustomerList get { return _customerList; } set customerList = value; OnPropertyChanged("CustomerList");





What we learned



Future Work

- Localization
- Printing using WPF or additional library

Summary

By working on this project, we learnt about MVVM architecture that can help us to understand MVC pattern easier in future, because MVVM pattern and MVC pattern have the same goal:

providing a clear separation between domain logic and presentation layer, that leads to :

- Maintainability
- Testability
- Extensibility