

Final Project

Case Study

Company

Hi-Tech Distribution Inc.

Hi-Tech Distribution Inc. is supplying computer science books to nearly all the colleges and universities in Quebec. You are required to design and implement an application called **Hi-Tech Order Management System** using Microsoft Visual Studio 2017 and SQL Server 2017.

Hi-Tech's business rules include the following:

1. Each book record should contain the fields: ISBN, Title, UnitPrice, YearPublished and QOH (quantity on hand). Each book must be categorized.
2. More than one author can write each book and each author may participate in writing more than one book. Each book can be published by only one publisher.
3. Each author record should contain the following pieces of information such as authorID (for identification in case authors have the same name), first name, last name and email).
4. **Hi-Tech** has received computer science books from different publishers (suppliers): Premier Press, Wrox, Murach, Prentice Hall and more.
5. **Hi-Tech's** customers are Colleges and Universities in Quebec.
A customer's information should include name, street, city, postal code, phone number, fax number and credit limit.

6. Order clerks can take customers 'orders (by Phone, Fax, or Email) and order payments will be made by direct withdrawal from the college/university's bank account as specified in the contract between **Hi-Tech** and the customer.
7. At present, **Hi-Tech** has two order clerks who are responsible for taking the customers' orders.

Users and Operations

Users	Operations	Technical Requirements
MIS Manager (Henry Brown)	<ul style="list-style-type: none"> <i>Add/update/delete user information</i> <i>Search/List user information</i> <i>Add/update/delete employee information</i> <i>Search/list employee information</i> 	Database Programming with ADO.NET in Connected Mode
Sales Manager (Thomas Moore)	<ul style="list-style-type: none"> <i>Add/Update/Delete customer information</i> <i>Search/List customer information</i> 	Database Programming with ADO.NET in Disconnected Mode
Order Clerks <ul style="list-style-type: none"> Mary Brown Jennifer Bouchard 	<ul style="list-style-type: none"> <i>Add/Update/Cancel customers' orders</i> <i>Search/List customers' orders</i> 	Using the Entity Framework
Accountant (Kim Hoa Nguyen)	<ul style="list-style-type: none"> <i>View customers' invoices</i> <i>Print out customers' invoices to be sent to customers</i> 	Your choice
Inventory Controller (Peter Wang)	<ul style="list-style-type: none"> <i>Add/update/delete/search/list book information and related information</i> 	Your choice

Security

To access the system, each user is required to enter his/her valid username and password. The user can change the password when necessary.