

**(Individual)**

Evaluation Weight: 50 % (out of the total mark for the course) Due Date: **August 11, 2022**

***Case Study***

**Company:**

**BookBiz Distribution Inc.** 7122 18th Montreal, Quebec H2A2M8

Tel: (514) 721-8662

Fax: (514) 777-8665

**BookBiz Distribution Inc.** is supplying computer science books to nearly all the colleges and universities in Quebec. You are required to design and implement a window-based application called **BookBiz Management System** using Visual Studio Enterprise 2015, C#.

**BookBiz’s** business requirements 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 can 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. **BookBiz** has received computer science books from different publishers (suppliers): Premier Press, Wrox, Murach, Prentice Hall and more.
5. **BookBiz’s** clients: Colleges and Universities in Quebec.

Each college/university should contain the information such as name, street, city, postal code, phone number, fax number and credit limit.

1. Order clerks can take clients ‘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 **BookBiz** and the client.
2. At present, **BookBiz** has two order clerks who are responsible for taking the clients’ orders.

# Users and Operations

|  |  |
| --- | --- |
| **Users** | **Operations** |
| MIS Manager (Henry Brown) | * Add user information * Search/List user information * Add employee information * Search/list employee information |
| Sales Manager (Thomas Moore) | * Add client information * Search/List client information |
| Inventory Controller  (Peter Wang) | * Add/search/list book information and related information |
| Order Clerks   * Mary Brown * Jennifer Bouchard | * Add/Cancel clients’ orders * Search/List clients’ orders |

# Data Source

.dat files can be used to store data.

# Technical Points

1. Developing Windows-based Application in C#
2. Applying Object-Oriented Concepts
3. Using Built-in Classes and Structures
4. Using Regular Expressions
5. Using Collection Classes
6. Using Files (.dat)

# Project Documentation

The project documentation must follow the following format

* Project Description

Interface Design Code Design Implementation

* Conclusion

Specify clearly what you have learned from this team project.

# Evaluation Scheme

Certainly, your application must satisfy all the functional requirements specified in the project. Pay attention to the following evaluation criteria.

|  |  |  |
| --- | --- | --- |
| **Evaluation Criteria** | **Requirements** | **Weight** |
| 1. Data validation | Be sure no invalid data has been entered into the system | **15** |
| 2. Interface Design | * Easy navigation * Clear instructions * No spelling mistakes * Naming conventions: Consistent * Using colors, font sizes and font styles with purpose * Elegant error messages * Complete implementation of the project’s requirements * Hints: Follow the techniques I   presented in class | **15** |
| 3. Source Code | * Useful comments * Naming Conventions: Consistent * Application of the object-oriented concepts * Complete implementation of the project’s requirements * Hints: Follow the techniques I   presented in class | **70** |
| **Total 100**  **Notes:**   * If the program gets errors (Syntax or Run-time) when compiling, **20 marks** will be deducted from the total mark. * Logical errors will result in **0** mark for the code part related. | | |