

Enterprise Software Systems (PROG30000)

Assignment 1

Due Date: 09:00 AM, September 22, 2017 (Friday)

IMPORTANT NOTE

- This assignment must be completed independently without any outside collaboration. All work must be your own. Copying or reproducing the work done by others (in part or in full) or letting others to copy or reproduce your own, and/or unauthorized collaboration will be treated as academic dishonesty under the College's Academic Dishonesty Policy.
- This is an out of class assignment and you are required to complete this assignment on your own time.
- Your application must compile and run upon download to receive any mark. Your supplied outputs (e.g., screenshots) may not be marked, if the corresponding program fails to compile and run.
- You **MUST** submit by the due date, and demonstrate your assignment in class on due date.
- Late submissions (without a valid documented reason e.g., medical, etc.) will be subject to a reduction in the grade earned as follows: 10% per day (including the submission day), if not demonstrated. If demonstrated, late penalty is 40% for 1 day and 10% more per subsequent day. Late submissions will be accepted until 3 (three) calendar days after the due date.
- To submit the assignments, please follow the Submission Guideline provided at the end of this assignment.
- Total mark = 20 (weight = 5% of the final grade). The demonstration is worth 50% of the marks.

Exercise 1: ABC Bookstore

Assume you are hired by your local bookstore, ABC Bookstore, as a software developer and assigned to develop an online Book Management System that would offer (at least) following functionalities:

- It provides required web interface(s) for user
 - to **enter** following information for a book,
 - Book title
 - Author list (note: a book could be authored by multiple authors)
 - ISBN Number
 - Publishing date (should not be any future date)
 - Publisher (either "Canadian" OR "International")
 - Category (Children's, Comics, Drama, Games, Health, Journals, Poetry, Sci-Fi, Travel)
 - Page count
 - Price
 - to **append** new book information into a database,
 - to **retrieve** all book information from the database and display them on webpage,

- to **display** a list of books to the user and **allow** the user to select a book from this list, and have the appropriate web controls to **update** and **delete** with the selected book's information in the database,
- to **find** and **display** the book information, given the Book title,
- to **find** and **display** the book information for the books priced higher than a given Price, and
- to **find** and **display** all book information, given a Category.

Your system should also satisfy a set of additional requirements, as follows.

- It should have a landing page showing following information:
 - Assignment No.: 1
 - Your Name:
 - Your Id:
 - Your Section:
 - Instructor's name: Syed Tanbeer
- It should provide data validations for user data entry.
- It should provide well-organized, professional-look web interface(s).

Develop an ASP.NET website to implement the web service as stated above. You must test your service through entering at least two different book data for each category. You can make up your own data. Hence, there should be at least 18 book records in the file. (Do not repeat any record.) You should also check whether all the operations e.g., display, find, edit, and delete work properly.

Submission Guideline:

Step 1: Launch your web service and take screenshots showing following web pages and put them into a single document file. The webpage screenshots **MUST** show the URL of the page at the address bar of the browser.

- the landing page of the application rendered on your browser
- all database tables showing field names and book records (should be from database tables)
- web interface to perform delete operation in your browser
- after searching for book records by a category in your browser
- after searching for book records by a price in your browser
- after searching for a book record by book title in your browser

Step 2: Zip up your entire Visual Studio solution directory including your screenshots, and database file (if you use external database) into a file named as follows: "yourname-ID-A1.zip" where "yourname" is substituted with your actual first name, and ID is your student Id. For example, the assignment of Bob having student id = 1 would be in a file named "Bob-1-A1.zip".

Step 3: Submit your Zip file through the Assignment 1 dropbox available on Slate. [NOTE: Email submissions will not be accepted.]

--: End of Assignment 1:--