**Topic 6 Assignment / Chapter 12 & 14**

**Windows Programming & CIS-2225**

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| Author: | **Christopher Sigouin** |
| Date: | November 21, 2015 |
| Due Date: | November 23, 2015 |
| Assignment: | Topic 6 Chapter 12 & 14 |
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|  | CIS-2225 Windows Programming |

Topic 6

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| To: | Gerald Caissy |
| From: | Christopher Sigouin |
| Date: | 21/11/2015 |
| Subject: | Managing information for books |
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This assignment was completed using an ‘Unbound ‘control aspect in a multi-tier environment.

The database used for this assignment was the MS Access database “RnrBooks.mdb”. This file and path can be edited within the BookDAO class of the application. Currently the application is set to use the path C:\RnrBooks.mdb. There was an issue with VS Premium 2012 when connecting to the database. A driver was required to download and install for proper connectivity. Details are below:

# *Upon receiving the following error, you would be required to install the database engine executable file from the link below:*

*Microsoft.ACE.OLEDB.12.0 is not registered*

*Microsoft Access Database Engine 2010 Redistributable*

[*http://www.microsoft.com/en-us/download/details.aspx?id=13255*](http://www.microsoft.com/en-us/download/details.aspx?id=13255)

Functionality of the application and options are briefly described below:

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| FUNCTIONALITY | |
| Book Title ComboBox | The combo box lists all book titles found under the ‘Title’ attribute within the ‘Books’ table of the database. When a user selects this drop down, uneditable fields to the right will populate details regarding a book selected. To utilize the primary key ‘ISBN’, a class of ‘ComboBoxItem’ was created with two properties (Text and Value). Much like a HTML combo box functions, this object is stored within each index and provides the ability to issue its display text as well as the ISBN value for data access. Use of the drop down forces ‘Select’ mode, so if the user accidently chooses ‘Add’ or ‘Edit’ the mode can be reverted back to ‘Select’. |
| Add Button | Enables ‘Add Mode ‘. Clicking the button will reset the combo box to its default value, clear all fields to the right as well as enabling them and changing the text on the save button to indicate the mode. |
| Edit Button | Enables ‘Edit Mode’. Clicking the button will enable all fields to the right except for the ISBN number as this is the key used by the BookDAO class. |
| Delete Button | Clicking the button will delete any item selected in the combo box. It will issue the user a warning and allow a second chance to cancel the request. Error checking prevents deletion of a null value. |
| Save Button | The save button has different modes depending on what button the user may choose. The add and edit buttons change the mode functionality and the text that displays on this button. Using the mode type, the save button will selectively choose the correct BookDAO function to either insert or update a record. Once its functionality is completed it will revert back to the applications default ‘Select’ mode. |

Assignment instructions below:

Complete and submit the following application:

* 1. Write a project to manage book information from the RnrBooks.mdf database. Note:  Open the RnRBooks in Access and resave it to a .accdb format in order to use with the provider .ACE or .JET.
  2. On your application Form a ComboBox should be populated from the table book title attribute in order to select the book you wish to view.  The form should be in 'textbox' format.
  3. On the form your application should include Add/Edit/Delete button functionality for book information.
  4. Error-handling should be implemented on three attribute of the book table.
  5. Try\_Catch Exception handling should be implemented with regards to the database aspects of connectivity and updating at minimum.
  6. The database is within the topic.

     Note:  Remember the Program Documentation Guidelines and Submission Guidelines.