CIS1280 C# /.NET I

Program – Catalog With Data

Objective: User a DataBase

# Turn in requirements:

1. Please name your Program LastnameP1, such as NelsonP3.
2. Check your code into source control.
3. Upload your QA checklist to blackboard

# Program Requirements:

1. **3 pts** Write your name, email address and file name at the top of your source code in a comment.
2. **5 pts.** Put your name and program title in the Text Property of the Form.
3. **5 pts** Use good C# programming style and formatting for your program.
4. **5 pts** Use appropriate comments to explain what you are doing. All public members of your class should use XML commenting (triple slashes). Group all your fields, properties, methods and constructors under #region/#endregion tags.

For this assignment you will create a WPF form application that will allow a user to manage a catalog. You will use the catalog class and catalog item classes.

## Database

Add a database to your project.

Add a table to the database to hold catalog items.

## WPF Form

Your form must have a Data Grid that will show the data in the database.

In the constructor for the form Read catalog items from the database into a catalog object and set the ItemsSource of the Data Grid to the List<CatalogItem> in the catalog object.

You must provide the user the ability to CRUD the data in the table.

The form should have a button that the user can use to add a new catalog item.

When the user clicks on the button a second form should opened as a dialog. This dialog will have text boxes that will allow the user to create a new catalog item. The dialog will have an submit and cancel button. The submit button will set the dialog result to ok and close the form. The main form will then add the new catalog item to the database if the dialog result is true. If the dialog result is false, display an error message with a Message box.

The form should have the ability for the user to select an item in the grid and delete it with a delete button.

The form should have the ability for the user to select an item in the grid and click an update button. The update button will open the same dialog as the add button but will pass in the selected item which will be used to initialize the form. If the user clicks ok, the main form will update the table item with the new values returned in the dialog’s catalog object.

Your connection string must be placed in the App.config file and you must use the System.Configuration namespace and the ConfigurationManager class to access it from your code.

When you create your connection object place it in a using directive so that it will be automatically closed if the connection to the database is lost.

# HINTS

Adding a connection string to the app.config will look like:

<connectionStrings>

<add name ="StoreDB"

providerName ="System.Data.SqlClient"

connectionString ="<connection string for your database>"

/>

</connectionStrings>

Don’t forget to include the necessary libraries:

using System.Configuration;

using System.Data.SqlClient;

using System.Data.Common;