ITEC 270 Product Editor

Using Windows Forms or WPF and C#, develop an application that allows an end user to conveniently and efficiently view and make any changes to the Product table in a SQL Server Northwind database.

Features:

* Create a convenient form of navigation through the table (alphabetic order of product name and possibly some other ordering as well) – List or Grid
* Search ability – FIND a product based on the name or part of the name. If there is more than one match you will have to decide how to show the results to the user. If only one match it can become the “currently displayed product”.
* Functionality to EDIT the currently displayed product.
* Functionality to ADD a new product.
* Functionality to DELETE a product (provided that referential integrity will be maintained.) This will mainly be for the user to be able to delete a recently added product that they change their mind about or an item that should not have added in the first place.

Other notes:

* The database connection string should be read from a configuration file.
* For Supplier and Category the names should be shown to the user. The user will be unaware of the SupplierIDs and CategoryIDs since they are just automatically generated keys.
* Your program should also be as robust as possible and work with nulls, etc. It should handle any possible exceptions and data entry errors as well as possible.
* Your application should contain at least two layers – keep the interface and database as separate as possible.
* A way of “cancelling” out of an “add product” or “edit product” operation is desirable.

Bonuses:

* An “undelete” feature. Similar to the concept of the recycle bin, deleted products could be restored to the table. This is not a simple feature to implement and would require another database table or other form of storage.
* Adding a new supplier and/or category “on the fly” so to speak. E.g. If they were putting in a new product and the supplier did not yet exist in the supplier table then they would have a way of adding a supplier before the new product is actually inserted into the database with that new supplier’s id.