Northwind Customer Form

Use Northwind database

Create all appropriate n-tier application layers - BLL, Models, Repo or SQL, and DAL

On form load, cboCustomers should be populated with all Customers in the Customers table.

Display the Company Name in the combobox

Create a Customer Class in the Models layer with all properties. Use Data Annotations to

Validate all properties. Use ValidationContext and ValidationResult at the form layer to create

Error messages for the user.

All fields should be read-only (not editable) until the Edit Customer button or New Customer button is clicked.

The CustomerID textbox should be read-only in edit mode, but editable when creating a new customer.

The customer ID must be exactly 5 uppercase alpha characters.

The other fields are all string type and should have maximum length attributes set according to the column attributes in the db table.

When a customer is selected from the combobox, all fields in the form should be populated with

the selected customer's info.

All fields are required for this exercise, even though many are nullable in db.

Clicking the New Customer button should clear all fields for entry

(use a common clearForm() method)

Create 2 Stored Procedures in the Northwind db.

1. usp\_UpdateCustomer
2. usp\_InsertCustomer

Both should be "locking" procedures using Transaction.

When the save button is clicked, the application must know whether you're editing a selected customer or

Creating a new one and call the appropriate stored procedure.

After a customer is successfully edited or created, a success message should be displayed to the user.

When it is dismissed the form should be cleared.

If the creation or edit is unsuccessful, exceptions should be caught to prevent the app from crashing.

Information about the error should be displayed to the user in the form of ValidationResult messages whenever possible. Exception messages should only go the user in the event of an unexpected problem.