Lab 4: Creating a data aware web application

**Estimated time to complete this lab: 2 hour**

**Objectives**

After completing this lab, you will be able to

* Understand how to use LINQ to SQL

**Scenario**

Now that the listing page is up and running your boss decides to turn his attention to the create new product page. It seems the MIS team has feedback that the current implementation is vulnerability to SQL injection. Also users have indicated that they wish to edit and delete current data too, rather than just selecting and viewing the data.

**Lab Setup**

1. Browse the following files covered in the demo
   1. Chapter4/linqtosql.aspx
   2. App\_Code/DataClasses.dbml
2. Copy your solution from Chapter3/Lab/default.aspx to Chapter4/Lab/default.aspx
3. Modify Chapter4/Lab/default.aspx to meet stated requirements

**Lab Tasks**

1. Create your own DBML file
   1. Right Click the App\_Code folder -> Add New Item
   2. Select LINQ to SQL Classes
   3. Click Add
   4. Click on Server Explorer
   5. Double click on the AdventureWorks Data Connection
   6. Expand the Tables node
   7. Select all the tables and drag them into the Object Relational Designer
   8. Save the file
2. Convert the SQL DataSource (DS\_AllProducts, DS\_Category) to a LINQDataSource
3. List All Products
   1. Allow users to select and delete a product
   2. Deletion should show a prompt
4. Create new Product
   1. Submit button should now create a new product and insert in into the products table

**Lab Completion Scenario**

1. All tasks completed

**Advanced Completion Scenario**

Completed the minimal requirements, how about tackling the following advanced requirements

1. Use a DropDown to create sharepoint like actions when users mouseover the Name
2. Allow users to edit the existing products