Milestone #1 – Part B

Due Monday June 12th, 2017 – at 23:00
Late policy: 10%/day, maximum 2 days
Demo in class is a must at a time announced by the teacher.

Overview

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You will work alone and start building a web application for a fictitious bicycle manufacturer. The objective is to create an E-Commerce web application similar to http://www.battdepot.com/ For this Milestone, you will begin create a MasterPage, two ASPX webforms: **products.aspx and gear.aspx.**

Database

========

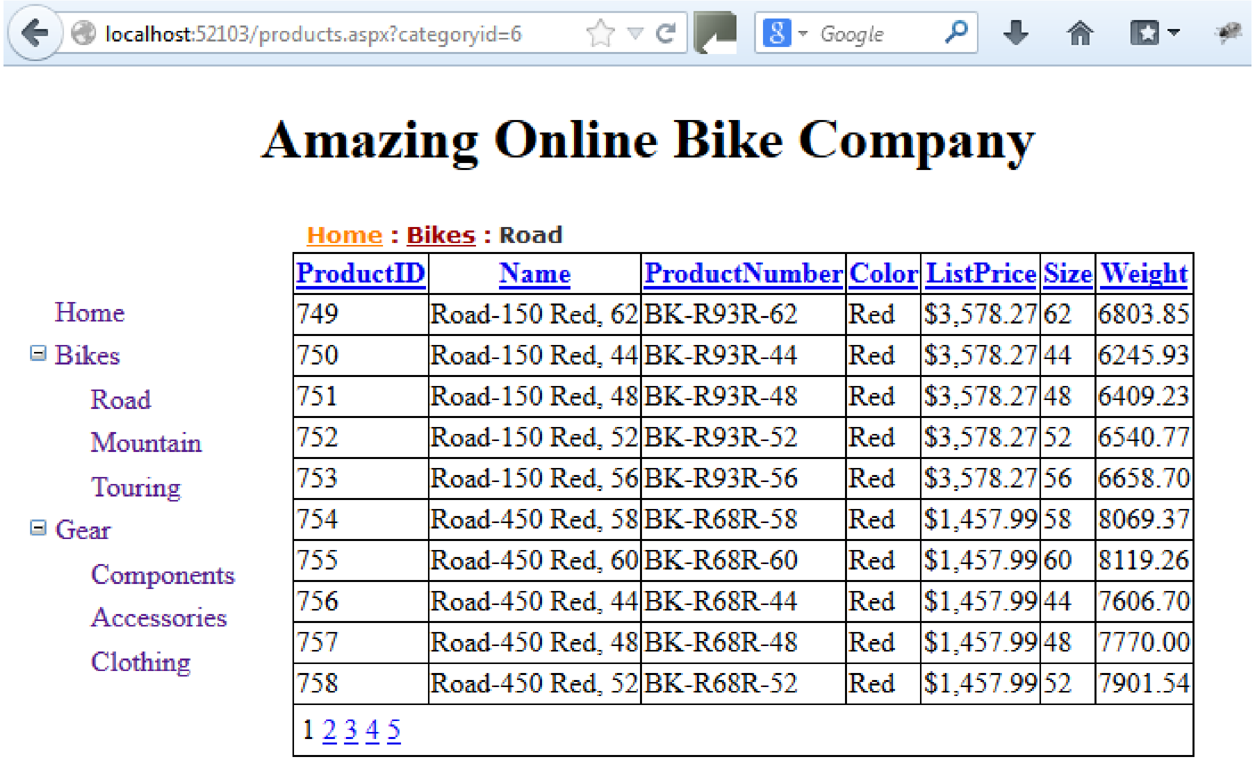
We will be using the AdventureWorksLT.mdf SQL Server 2015 database provided on Léa. The AdventureWorks LT database supports standard online transaction processing scenarios for a fictitious bicycle manufacturer.
Take the time to analyze the **Product table** and the **ufnGetAllCategories function** and the data they return.

Products.aspx

========

The products page contains a GridView dynamically linked to the Products table using a SQLDataSource data source control. The GridView filters the data from the Products table using a Request.QueryString: *categoryID*. Example: http://localhost:52103/products.aspx?categoryid=6 Shows the category 6 which is Road bikes. The GridView has paging and sorting enabled. The ListPrice column is formatted as currency. The Color, Size and Weight columns have N/A for their NullDisplayText BoundField property.
This is the SQL:

```
        SELECT ProductID, Name, ProductNumber, Color, ListPrice, Size, Weight
        FROM   SalesLT.Product
        WHERE  (ProductCategoryID = @param)
```



Amazing Online Bike Company

- Home
- ⊟ Bikes
  - Road
  - Mountain
  - Touring
- ⊟ Gear
  - Components
  - Accessories
  - Clothing

Home : Bikes : Road

ProductID	Name	ProductNumber	Color	ListPrice	Size	Weight
749	Road-150 Red, 62	BK-R93R-62	Red	$3,578.27	62	6803.85
750	Road-150 Red, 44	BK-R93R-44	Red	$3,578.27	44	6245.93
751	Road-150 Red, 48	BK-R93R-48	Red	$3,578.27	48	6409.23
752	Road-150 Red, 52	BK-R93R-52	Red	$3,578.27	52	6540.77
753	Road-150 Red, 56	BK-R93R-56	Red	$3,578.27	56	6658.70
754	Road-450 Red, 58	BK-R68R-58	Red	$1,457.99	58	8069.37
755	Road-450 Red, 60	BK-R68R-60	Red	$1,457.99	60	8119.26
756	Road-450 Red, 44	BK-R68R-44	Red	$1,457.99	44	7606.70
757	Road-450 Red, 48	BK-R68R-48	Red	$1,457.99	48	7770.00
758	Road-450 Red, 52	BK-R68R-52	Red	$1,457.99	52	7901.54
1 2 3 4 5						

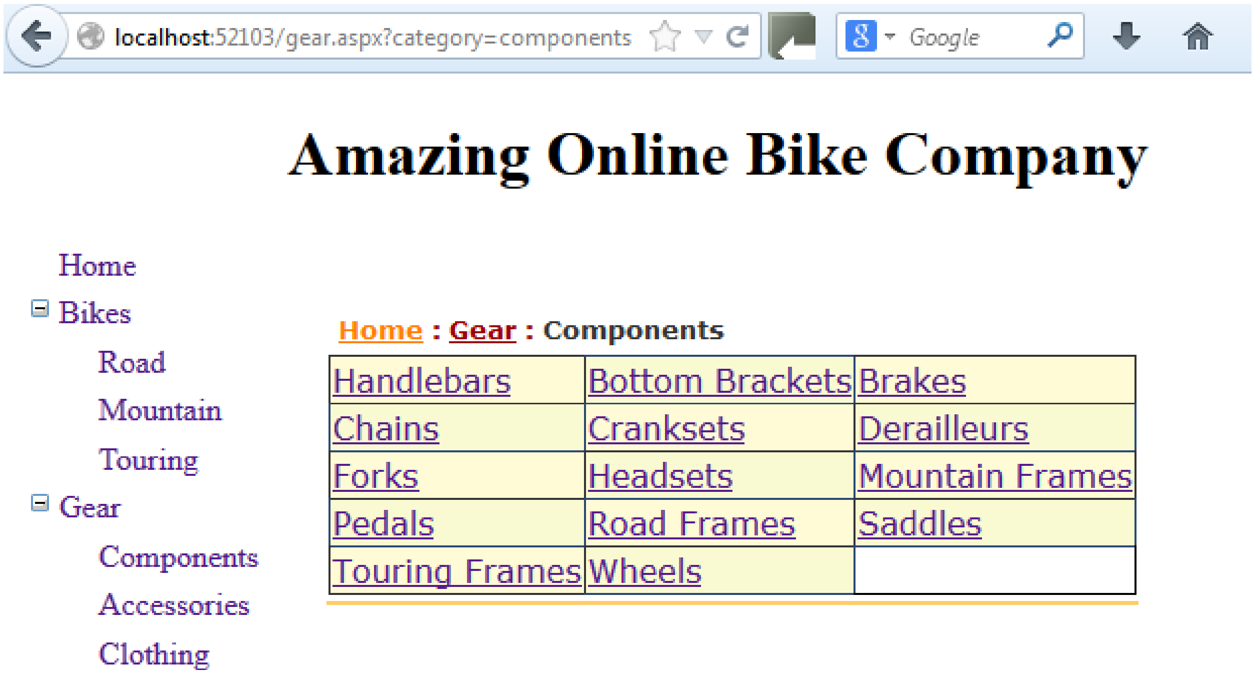
Gear.aspx
========

The gear page contains a ListView dynamically linked to the **ufnGetAllCategories function** using a SQLDataSource data source control. The ListView filters the data from the function table using a Request.QueryString: *category*.
Example: http://localhost:52103/gear.aspx?category=components
This link shows the gear category "components". The default Listview is modified in the `<AlternatingItemTemplate>` and the `<ItemTemplate>`. The default data is being replaced by a dynamic HyperLink control. The HyperLink dynamicly created the links to call `products.aspx?categoryID=X` where X is the dynamically retrieved `ProductCategoryID.` (See further under). There are 3 types of gear categories: components, accessories and clothing.

```
        SELECT ProductCategoryName, ProductCategoryID
        FROM   dbo.ufnGetAllCategories()
        WHERE  (ParentProductCategoryName = @cat)
```

Dynamic hyperlinks:

```
        <asp:HyperLink ID="HyperLink1" runat="server"
        Text='<%# Eval("ProductCategoryName") %>'
        NavigateUrl='<%#
        String.Concat("~/products.aspx?categoryID=",Eval("ProductCategoryID")) %>'>
        </asp:HyperLink>
```



Amazing Online Bike Company

Home : Gear : Components

Handlebars	Bottom Brackets	Brakes
Chains	Cranksets	Derailleurs
Forks	Headsets	Mountain Frames
Pedals	Road Frames	Saddles
Touring Frames	Wheels	

Navigation controls

========

SiteMapPath & TreeView navigation server controls must be present on the master page. The navigation menu data will be fetched from Web.sitemap. A sample Web.sitemap is provided on Léa. Do not show the Home Starting Node. Set `ShowStartingNode="False" in`

```
<asp:SiteMapDataSource ID="SiteMapDataSource1" runat="server" ShowStartingNode="False" />
```

The bikes navigation calls directly product page with the appropriate categoryID:

Bikes types	*categoryID*
Mountain	5
Road	6
Touring	7

ASP.NET Components

========

- Web forms (ContentPage) associated to a MasterPage
- Navigation server controls: TreeView/Sitemaps
- Data source controls: GridView/ListView with SqlDataSource and custom SQL
- Parameter passing with QueryString.
- Databound
- Dynamic hyperlinks.

Requirements

=========

Your application must meet the following requirements:

1. It must be implemented in ASP.NET using web forms with C# code behind.
2. A total of 5 ASPX pages need to be created:

- **The Home button links to ~/Default.aspx which should give a welcome message to the user.**
- **The Bikes button links to ~/Bikes/Default.aspx which gives a short description of the 3 types of bikes sold and how they differ.**
- **The Gear button links to ~/Gear/Default.aspx which gives a short description of the 3 types of gear sold and what the consumer can expect.**
- **Road, Mountain and Touring links to ~/products.aspx?categoryID=X where X is the specific category retrieved from the Web.Sitemap file**
- **Components, accessories and clothing links to ~/gear.aspx?category=X where X is the specific gear types retrieved from the Web.Sitemap file.**

3. All pages should use your Master page.
4. Design is left to you: You can include a logo for your company and realistic text description in all pages.

Deliverables

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- **Find a teammate to test your application before submitting and before demoing to the teacher. Include the name of the tester as comments in your main() program header.**
- **Demo in class when the teacher requests it.**

- **Compress the Milestone project folder and submit on Lea. If the zipped file is bigger than 25MB then: use 7zip compression level Ultra and split to volumes of 25 MB each. It will create 2 or more 7zip files. Upload one by one on Lea (limit per file is 25 MB).**
  You are to keep your entire project (along with your .mdf database file) in one folder. Compress this entire folder into a ZIP file (retain the tree structure please!) and submit this on LEA