OrthoBanc, LLC - Programming Evaluation
January 29, 2014

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1 Purpose

This project is designed to be a small and self-contained exploration of a number of skills required for web development using ASP.NET MVC. The tasks laid out in this document will require an understanding of the Microsoft MVC framework, HTML, CSS and Javascript. A familiarity with Visual Studio will also be useful.

A list of tasks is outlined which must be completed to demonstrate a familiarity with web development. "Extra credit" sections are provided which go above and beyond the bare minimum - they are, however, completely optional!

2 Requirements

The basis for the tasks in this document will be the MVC Music Store demo project. It is a free download and represents a complete MVC website. You can retrieve it at the following link:

- MVC Music Store Source - http://mvcmusicstore.codeplex.com

In order to complete the programming tasks outlined in this document you will need to be capable of running the MVC Music Store demo project. If you are already set up with an environment that is capable of working on an ASP.NET MVC 3 web application then you don't need to do anything else. Otherwise refer to the following free resources to get your environment up to speed - it is not guaranteed complete:

- Visual Web Developer Express - http://www.asp.net/vwd
- Microsoft SQL Server Compact Edition - http://www.microsoft.com/en-us/server-cloud/products/sql-server-editions/sql-server-express.aspx

- .NET Framework 4.5 - http://www.microsoft.com/net
- ASP.NET MVC3 - http://www.asp.net/mvc/mvc3

3 Tasks

Although the MVC Music Store is a complete and functioning site we have identified some areas for improvement. There are three main updates to be done to the website.

3.1 Genre Listing - Album Count

Url: /Store/
When the store lists all of the genres there is no information provided except for the name of the genre.

Browse Genres

Select from 10 genres:

- Rock
- Classical
- Jazz
- Pop
- Disco
- Latin
- Metal
- Alternative
- Reggae
- Blues

Interested users might be inclined to know a total count of albums in a genre before digging deeper. Display the total count of albums in a genre next to each link to the genre store page.

Browse Genres

Select from 10 genres:

- Rock (111)
- Classical (34)
- Jazz (12)
- Pop (2)
- Disco (3)
- Latin (35)
- Metal (34)
- Alternative (5)
- Reggae (4)
- Blues (6)

3.1.1 Extra Credit

As an added bonus you can sort the genres by some sensible means - either alphabetically or descending album count (greatest to least number of albums). To truly go the extra mile allow the user to select how they want to sort.
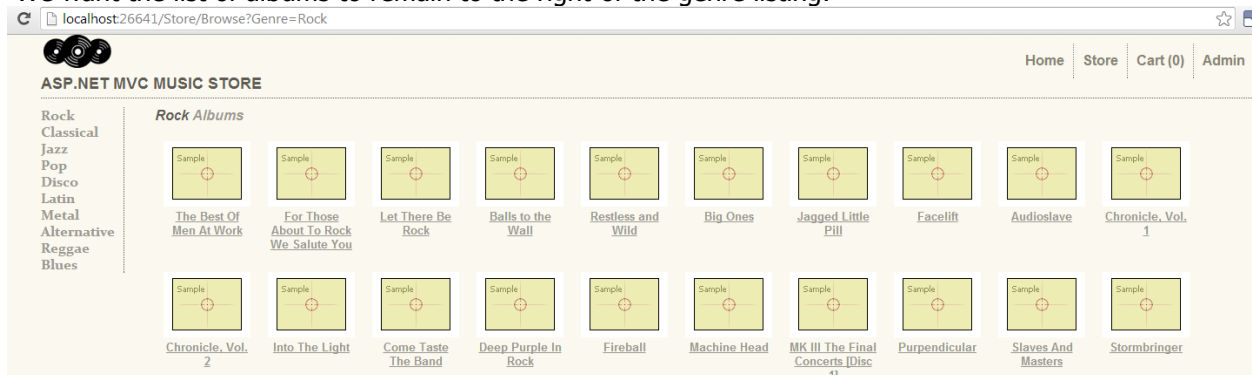
3.2 Album List Formatting

Url: /Store/Browse?genre=Classical

The listing of albums for a genre employs a basic tiling technique which works well for layout out many items in this fashion - however if too many items are displayed the genre title and the album listing is shifted down:
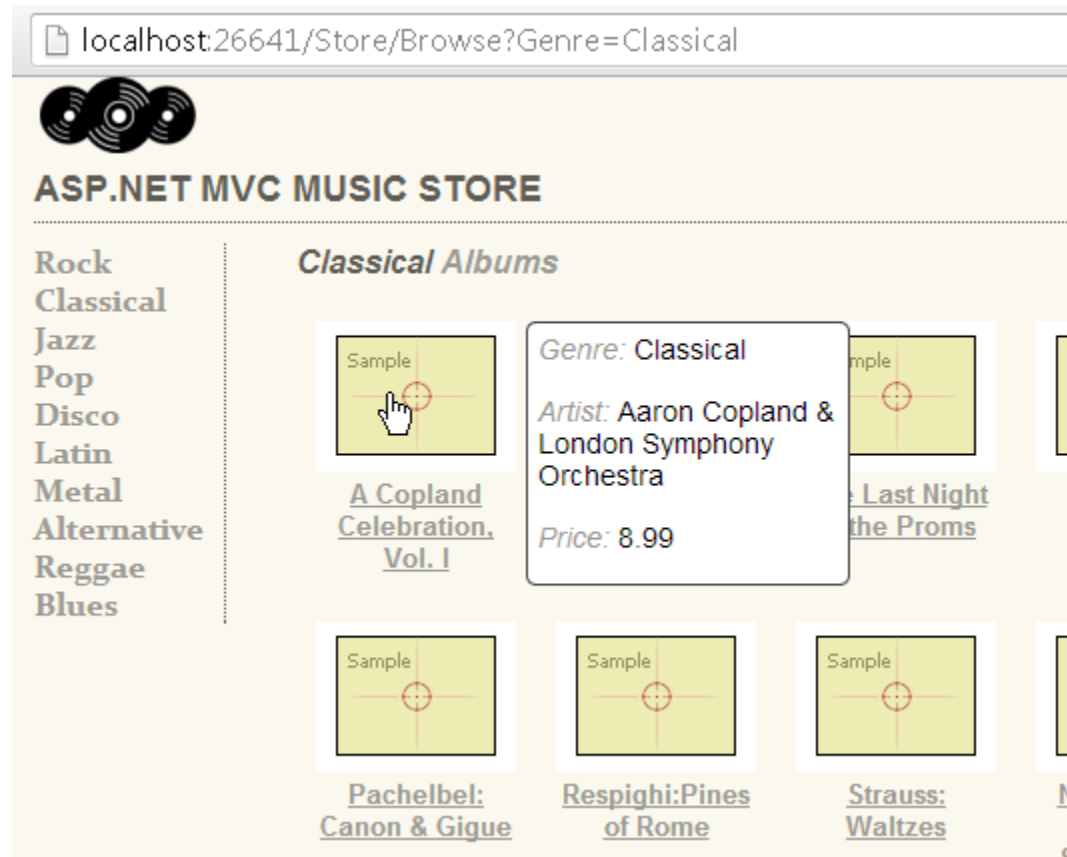

We want the list of albums to remain to the right of the genre listing:

3.3 Album Detail Popup

Url: /Store/Browse?genre=Classical

When browsing the album listing in a genre if you care to _nd out the artist or price of an album you have to click on it and go to the album details. We could instead helpfully display a popup on moussing over an album that shows this information like the screenshot below:

The popup should display when the mouse hovers over the album image or the album title, and the content should be exactly the same as what is on the album details page (you may include the "Add to cart" button if you want - it was omitted in the example.

3.3.1 Extra Credit

Url: /

Note that some albums are also displayed on the main page as "Fresh off the grill" - the implementation of the album details can be done in such a way that adding it to this page (or any other) can be done easily and efficiently. Add it.

4 Deliverables

You can return the completed project to us in any fashion you want - but we'll be happy to accept a zipped
up solution that we can extract and open up.

Additionally, we do use Mercurial as our source control system. We will be happy to accept a patch set that
we can apply to a repo that is rooted in the MvcMusicStore-v3.0\MvcMusicStore-Completed directory.

5 Contact

If you have any questions about the requirements or tasks outlined in this document feel free to contact any of the following:
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