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# ASP.NET MVC 4 Bootstrap Sample (C# .NET 4.5)

This sample demonstrates how to use Bootstrap with ASP.NET MVC 4 and provides a sample layout. The sample has only a single controller and doesn't use any object-relational mappers for clarity. There are three views that show certain features of the Bootstrap framework.

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## Introduction

This sample demonstrates how to use Bootstrap with ASP.NET MVC 4 and provides a simple fluid layout. The sample has only a single controller and doesn't use any object-relational mappers for clarity. There are three views that show certain features of the Bootstrap framework including a simple popup dialog.

More information about the features of Bootstrap can be found here:

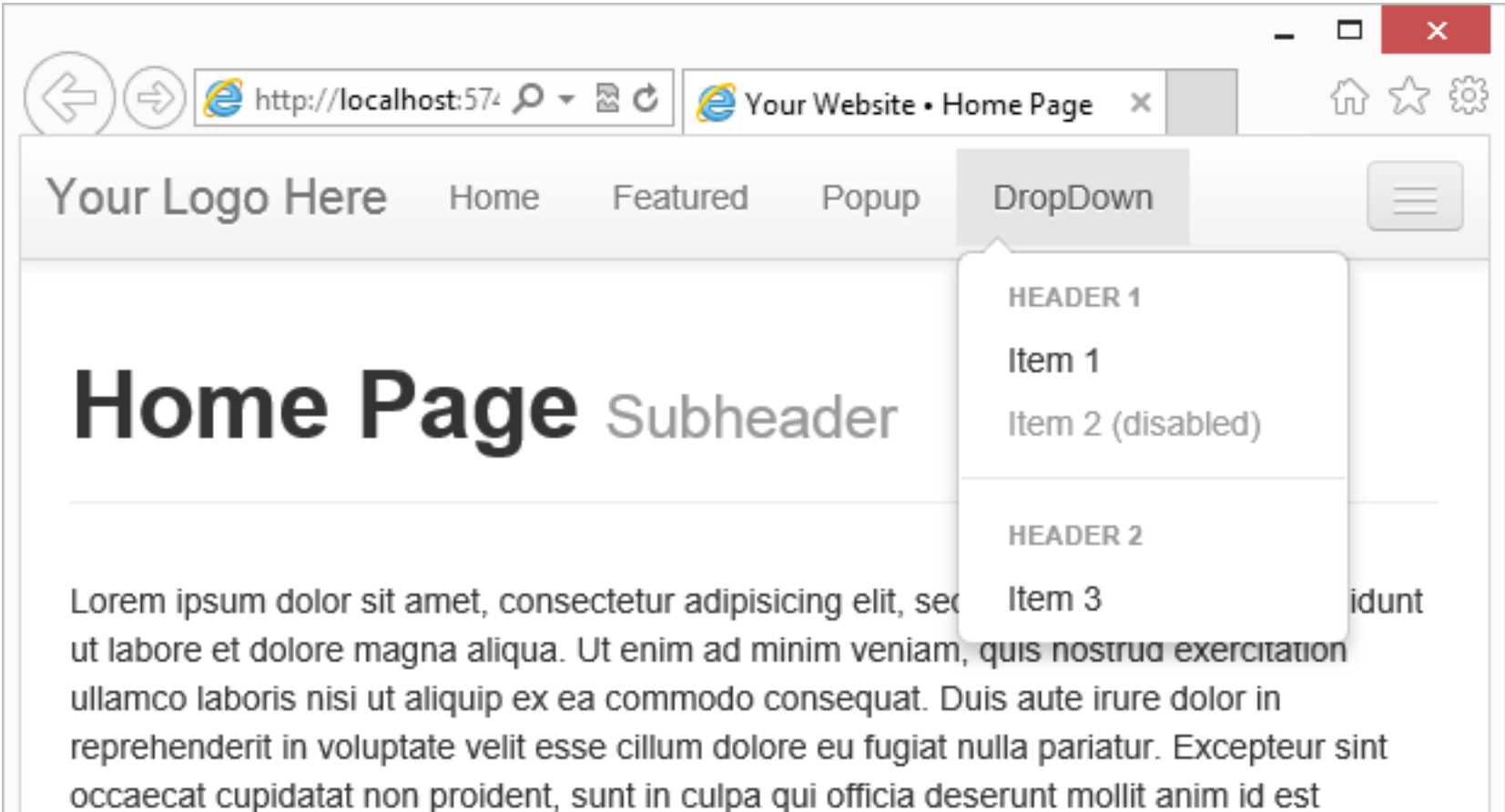
<http://twitter.github.io/bootstrap/>

## Building the Sample

You will need Visual Studio 2012 and .NET 4.5 installed to build the sample.

## Description

After running the application a browser will open and you should be able to see the following layout:



laborum.

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Let's see about the specific implementetation details.

We will use the Microsoft ASP.NET Web Optimization Framework (Namespace [System.Web.Optimization](#)) to bundle all styles and javascripts into single minified versions. This is done in the following *BundleConfig* class:

C#

```
public static class BundleConfig
{
    public static void RegisterBundles(BundleCollection bundles)
    {
        RegisterStyleBundles(bundles);
        RegisterJavaScriptBundles(bundles);
    }

    private static void RegisterStyleBundles(BundleCollection bundles)
    {
        bundles.Add(new StyleBundle("~/css")
            .Include("~/Content/bootstrap.css")
            .Include("~/Content/bootstrap-responsive.css")
            .Include("~/Content/site.css"));
    }

    private static void RegisterJavaScriptBundles(BundleCollection bundles)
    {
        bundles.Add(new ScriptBundle("~/js")
            .Include("~/Scripts/jquery-{version}.js")
            .Include("~/Scripts/jquery-ui-{version}.js")
            .Include("~/Scripts/bootstrap.js"));
    }
}
```

The BundleConfig needs to be initialized on start of the application to take effect. This is done in the *Global.asax.cs*:

C#

```
public class MvcApplication : System.Web.HttpApplication
{
    protected void Application_Start()
    {
        // ...

        BundleConfig.RegisterBundles(BundleTable.Bundles);
    }
}
```

Bundling enables us to use aliases in our *\_Layout.cshtml* which we have defined in the *BundleConfig* earlier:

HTML

```
@using System.Web.Optimization
<!DOCTYPE html>

<html lang="en">
<head>
    <!-- ... -->

    @Styles.Render("~/css")
</head>
<body>
    <!-- ... -->

    @Scripts.Render("~/js")
</body>
</html>
```

The full *\_Layout.cshtml* using Bootstrap fluid containers:

```
@using System.Web.Optimization
<!DOCTYPE html>

<html lang="en">
<head>
    <meta charset="utf-8" />
    <title>Your Website &bull; @ViewBag.Title</title>

    @Styles.Render("~/css")
</head>
<body>
    <div class="navbar navbar-fixed-top">
        <div class="navbar-inner">
            <div class="container-fluid">
                <button type="button" class="btn btn-navbar" data-toggle="collapse" data-
target=".nav-collapse">
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                </button>
                <a class="brand" href="@Url.Action("Index", "Home")">Your Logo Here</a>
                <ul class="nav">
                    <li class="dropdown">@Html.ActionLink("Home", "Index", "Home")</li>
                    <li class="dropdown">@Html.ActionLink("Featured", "FeaturedExample", "Home")
</li>

                    <li class="dropdown">@Html.ActionLink("Popup", "DialogExample", "Home")
</li>

                    <!-- DropDown example -->
                    <li class="dropdown"><a href="#" class="dropdown-
toggle" id="dropdownCommonMenu" data-toggle="dropdown">DropDown</a>
                        <ul class="dropdown-menu" role="menu" aria-
labelledby="dropdownCommonMenu">
                            <li role="menuitem" class="nav-header">Header 1</li>
                            <li role="menuitem">@Html.ActionLink("Item 1", "Index", "Home")
</li>

                            <li role="menuitem" class="disabled">@Html.ActionLink("Item 2 (disab
led)", "Index", "Home")</li>
                            <li role="menuitem" class="divider"></li>
                            <li role="menuitem" class="nav-header">Header 2</li>
                            <li role="menuitem">@Html.ActionLink("Item 3", "Index", "Home")
</li>

                        </ul>
                    </li>
                </ul>
            </div>
        </div>
    </div>

    <div class="container-fluid">

        <div class="row-fluid">
            @if (IsSectionDefined("sidebar"))
            {
                <div class="span2">
                    @RenderSection("sidebar", required: false)
                </div>
            }

            <div id="content" @(IsSectionDefined("sidebar") ? Html.Raw("class=span10") : Html.Ra
w("class=span12"))>
                <noscript>
                    <div class="alert">
                        <button type="button" class="close" data-dismiss="alert">&times;
</button>

                        <strong>Warning!</strong> Please enable JavaScript in your browser!
                    </div>
                </noscript>

                @if (IsSectionDefined("featured"))
                {
                    <div>
                        <div class="hero-unit">
                            @RenderSection("featured", required: false)
                        </div>
                    </div>
                }
                <div>
                    @RenderBody()
                </div>
            </div>
        </div>
    </div>
</div>
```

```

        <div class="row-fluid">
            <footer id="footer">
                <p>&copy; 2013, Your Company Limited</p>
            </footer>
        </div>
    </div>
    @Scripts.Render("~/js")
    @RenderSection("scripts", required: false)
</body>
</html>

```

## More Information

For more information on the ASP.NET Web Optimization Framework see:

<http://aspnetoptimization.codeplex.com/>

More information on Bootstrap can be found here:

<http://twitter.github.io/bootstrap/>

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