.NET / JQUERY   💬 0

ASP.Net MVC 4 + jQuery Autocomplete + Json

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In this tutorial, We will show you how to integrate jQuery Autocomplete with Json return into MVC4.
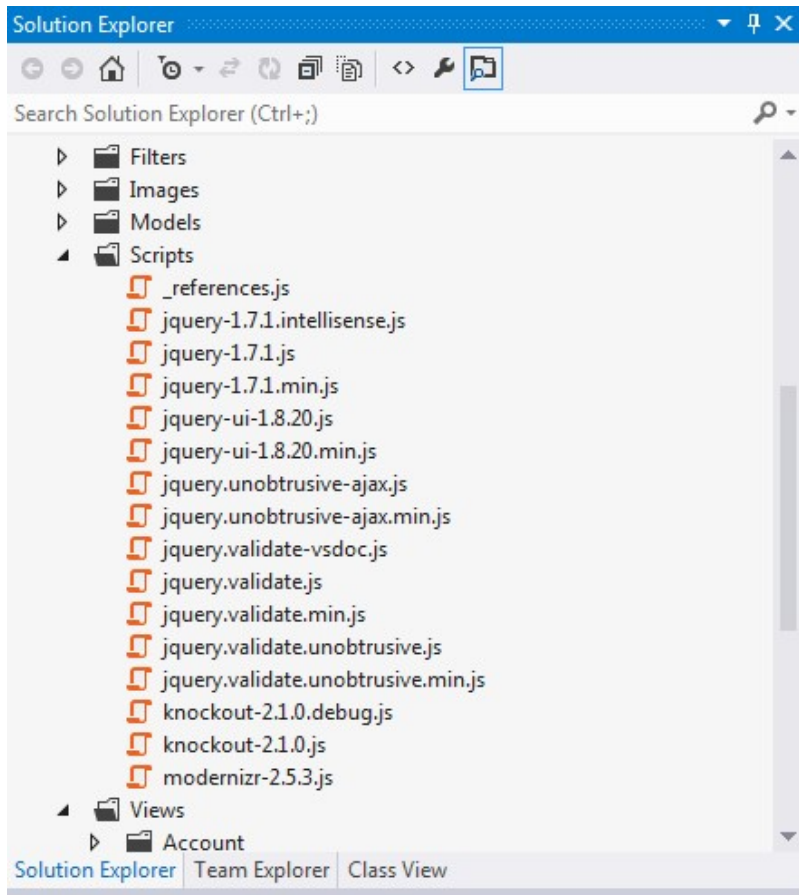
Tools used

1. Microsoft VS 2012

2. Jquery

3. Jquery-ui

4. Jquery-ui.css

Step to integrate – ASP.Net MVC 4 + jQuery Autocomplete + Json

1. First of all, we will assume you know how to create a new MVC project in MS 2012, in case you need guide, please refer to here.
2. After create the project, By default, jquery and jQuery-UI javascript files has been created in Scripts folder and you will see files like image below, We will need these files in later step.

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3. Download jQuery-ui.css and save into content folder.
   [wp_ad_camp_6]
4. Create a controller named JqueryController. (Right
   click on Controllers Folder > Add > Controller)
5. In the JqueryController.cs, add a view with name
   index. (Right click on ActionResult > Add View)

6. Go to App_start>BundleConfig.cs, and modify your code to include the download jquery-ui.css

```C#
1  bundles.Add(new StyleBundle("~/Content/css").Include("~/C
2                      "~/Content/jquery-ui.css"));
```

Notes: By adding new line into bundle meaning that all view will download the file even though the page does not require the file, We assume that all of the views need this file, so that is why we include the file in bundleConfig.cs

1. Now we need to prepare json data source, go to **Controller> JqueryController** add this function, this function will search any text send from browser and then return data as jsonresult.

```C#
1  public JsonResult AutoComplete(string search) {
2
3          var data = new [] {"ActionScript","AppleScri
4              "BASIC",
5              "C","C++","Clojure","COBOL","ColdFusion",
6              "Erlang",
7              "Fortran",
8              "Groovy",
9              "Haskell",
10             "instinctcoder.com",
11             "Java","JavaScript",
12             "Lisp",
13             "Perl","PHP","Python",
14             "Ruby",
```

```
15            "Scala","Scheme"};
16
17        var result = data.Where(x => x.ToLower().Sta
18
19        return Json(result, JsonRequestBehavior.Allo
20    }
```

To test the created function, browser to this URL
http://yourip/jquery/autocomplete?search=, you will
have this result return in your browser.

1. In the Jquery/Index.chtml. Copy code from jQuery
   website and modify a little bit to make it look like
   MVC Code 😛

```
                                                    C#
1  @Scripts.Render("~/bundles/jqueryui")
2  <h2>jQuery AutoComplete</h2>
3    <script>
4        $(function () {
5            $('#tags').autocomplete({
6                source: function (request, response) {
7                    $.ajax({
8                        url: '@Url.Action("AutoComplete")'
9                        dataType: "json",
```

```
10                    contentType: 'application/json, ch
11                    data: {
12                        search: $("#tags").val()
13                    },
14                    success: function (data) {

16                        response($.map(data, function
17                            return {
18                                label: item
19                            };
20                        }));
21                    },
22                    error: function (xhr, status, errc
23                        alert(error);
24                    }
25                });
26            },
27            minLength: 2
28        });
29    });
30
31  </script>
32
33  <div class="ui-widget">
34    <label for="tags">Tags: </label>
35    <input id="tags" />
36  </div>
```

Please take note the `@Url.Action("AutoComplete")` will generate url string in this format '/contoller/action/' i.e. it will generate /jquery/autocomplete'
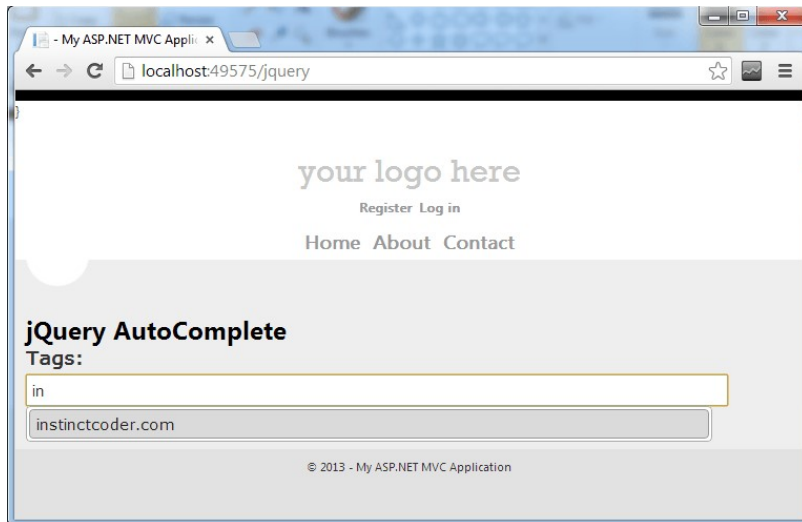
1. You need to make sure the jQuery javascript is place on top of jQuery-UI javascript file or else Autocomplete will not work. Modify _Layout.chtml, and it will look like this

```
@Scripts.Render("~/bundles/jquery")
```

```html
    <title>@ViewBag.Title - My ASP.NET MVC Application</title>
    <link href="~/favicon.ico" rel="shortcut icon" type="image/x-icon" />
    <meta name="viewport" content="width=device-width" />
    @Styles.Render("~/Content/css")
    @Scripts.Render("~/bundles/modernizr")
    }
</head>
<body>
    <header>
        <div class="content-wrapper">
            <div class="float-left">
                <p class="site-title">@Html.ActionLink("your logo here", "Index", "Home")</p>
            </div>
            <div class="float-right">
                <section id="login">
                    @Html.Partial("_LoginPartial")
                </section>
                <nav>
                    <ul id="menu">
                        <li>@Html.ActionLink("Home", "Index", "Home")</li>
                        <li>@Html.ActionLink("About", "About", "Home")</li>
                        <li>@Html.ActionLink("Contact", "Contact", "Home")</li>
                    </ul>
                </nav>
            </div>
        </div>
    </header>
    <div id="body">
        @RenderSection("featured", required: false)
        <section class="content-wrapper main-content clear-fix">
            @RenderBody()
        </section>
    </div>
    <footer>
        <div class="content-wrapper">
            <div class="float-left">
                <p>&copy; @DateTime.Now.Year - My ASP.NET MVC Application</p>
            </div>
        </div>
    </footer>
    @Scripts.Render("~/bundles/jquery")
</body>
</html>
```

Must Place before @RenderBody Either 1st or 2nd arrow

2. Run the application (F5). That's all!

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