



Microsoft
ASP.net MVC

Kendo UI ASP.NET MVC Wrappers

ASP.NET MVC
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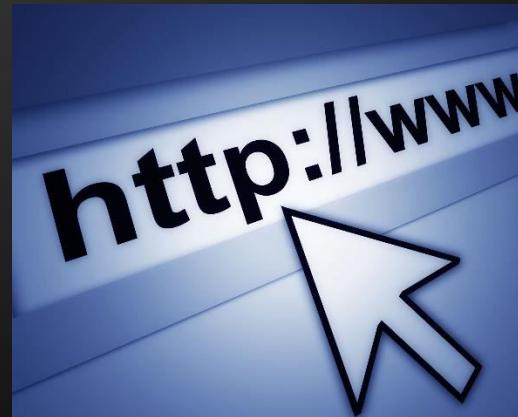


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Kendo UI

<http://www.kendoui.com/>



What is Kendo UI?

- ◆ Framework for building modern interactive web applications
- ◆ Collection of script files and resources (styles, images, etc.)

- ◆ Leverages

- ◆ JavaScript
- ◆ HTML5
- ◆ CSS3
- ◆ jQuery



What Does Kendo UI Provide?

- ◆ Rich UI Widgets
 - ◆ HTML5 controls based on jQuery Core
 - ◆ 3 categories of UI Widgets
 - ◆ Web
 - ◆ DataViz
 - ◆ Mobile
- ◆ Client-side DataSource
 - ◆ Abstraction for working with all types of data on the client side



What Does Kendo UI Provide?

- ◆ MVVM Framework
 - ◆ Provides declarative binding and two-way data synchronization in your web application
- ◆ Animation and Drag & Drop
- ◆ Templating
- ◆ Validation Framework
- ◆ Server wrappers
 - ◆ ASP.NET MVC
 - ◆ Java and PHP



First Name	Last Name	City	Birth Date	Age
Andrew	White	Tacoma	04 March 1955	57
Andrew	Suyama	London	09 January 1958	54
Andrew	King	Tacoma	19 February 1952	60
Andrew	Suyama	London	27 March 1966	46
Andrew	Fuller	London	05 April 1952	60
First Name: Anne	Suyama	White	New York	64
	White	White	London	64
First Name: Janet	Dodsworth	Dodsworth	London	56
	Buchanan	Buchanan	Tacoma	44
	Buchanan	Buchanan	New York	52
	Buchanan	Buchanan	New York	50 items

Include Kendo UI in Project

- ◆ Download Kendo UI Complete for MVC
- ◆ Copy and reference Kendo.Mvc.dll
 - ◆ Located in: ...\\wrappers\\aspnetmvc\\Binaries\\Mvc5
- ◆ Copy the provided version of jQuery
- ◆ Copy JavaScript files into ~\\Scripts\\Kendo
 - ◆ js\\kendo.all.min.js and js\\kendo.aspnetmvc.min.js
- ◆ Copy CSS files and images into ~\\Content
 - ◆ All from ...\\styles to ~Content\\Kendo

Include Kendo UI in Project

- ◆ Create bundles for jQuery and Kendo

```
bundles.Add(new  
    ScriptBundle("~/bundles/jquery").Include(  
        "~/Scripts/Kendo/jquery.min.js"));  
bundles.Add(new  
    ScriptBundle("~/bundles/kendo").Include(  
        "~/Scripts/Kendo/kendo.web.min.js",  
        "~/Scripts/Kendo/kendo.aspnetmvc.min.js"));
```

- ◆ Create bundles for CSS

```
bundles.Add(new  
    StyleBundle("~/Content/kendo").Include(  
        "~/Content/kendo.common.*",  
        "~/Content/kendo.default.*"));
```

- ◆ Clear the ignore list for the bundles

Include Kendo UI in Project

- ◆ Register bundles (if not already)

```
protected void Application_Start()
{
    ...
    BundleConfig.RegisterBundles(BundleTable.Bundles);
    ...
}
```

- ◆ Render the bundles in your Layout page

```
<head>
    <!-- other content -->
    @Styles.Render("~/Content/kendo")
    @Scripts.Render("~/bundles/kendo") // after jQuery
</head>
```

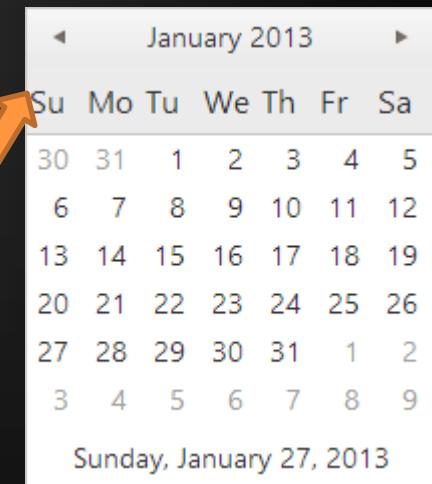
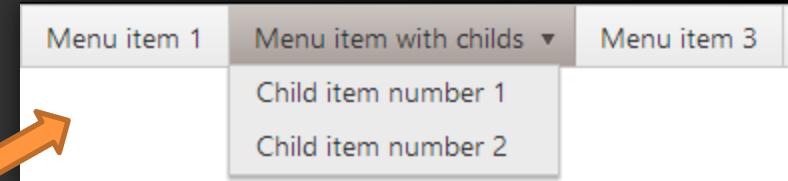
Include Kendo UI in Project

- ◆ Add Kendo namespace in web.config for the Views folder

```
<system.web.webPages.razor>
  <pages pageBaseType="System.Web.Mvc.WebViewPage">
    <namespaces>
      <add namespace="System.Web.Mvc" />
      <add namespace="System.Web.Mvc.Ajax" />
      <add namespace="System.Web.Mvc.Html" />
      <add namespace="System.Web.Optimization"/>
      <add namespace="System.Web.Routing" />
      <add namespace="Kendo.Mvc.UI" />
    </namespaces>
  </pages>
</system.web.webPages.razor>
```

◆ Pure HTML and JavaScript

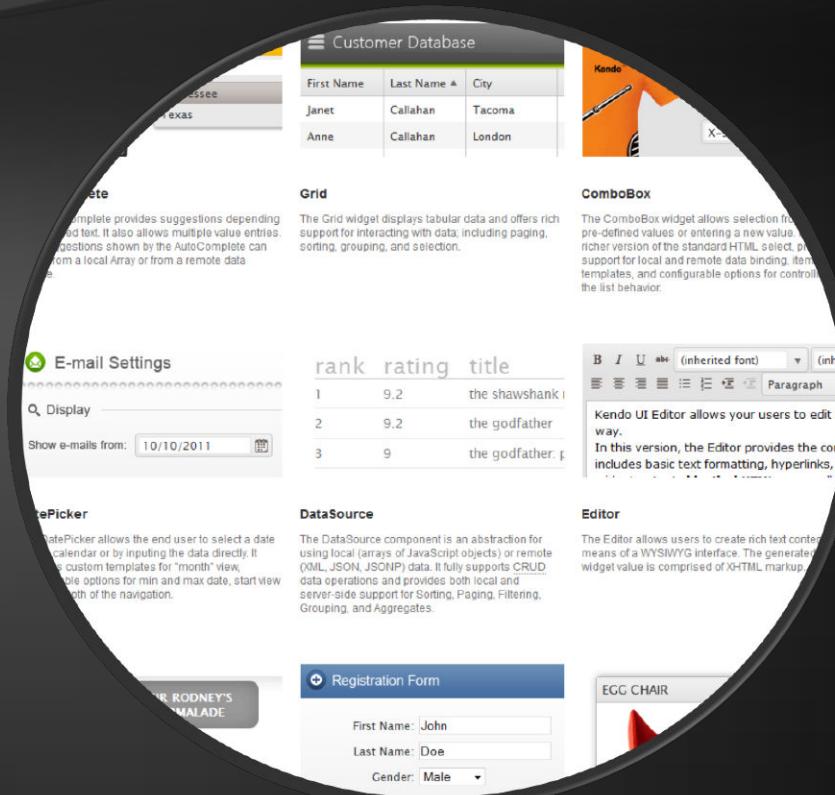
```
<nav>
  <ul id="Menu">
    <li>Menu item 1</li>
    <li>
      Menu item with childs
      <ul>
        <li>Child item number 1</li>
        <li>Child item number 2</li>
      </ul>
    </li>
    <li>Menu item 3</li>
  </ul>
</nav>
@* ..... *@
<script>
  $("#Menu").kendoMenu();
</script>
```



◆ ASP.NET MVC wrappers

```
@Html.Kendo().Calendar().Name("MyCalendar")
```

◆ Kendo code MUST be after jQuery reference!



Installing Kendo UI for MVC

Documentation [here!](#)

Kendo UI HTML Helpers

<http://www.kendoui.com/>



◆ HTML Helpers

- ◆ Lightweight C# objects
- ◆ Auto-generate markup within a View
- ◆ Return HTML and JavaScript to the browser
- ◆ Provide Fluent API
- ◆ Can be used in both Web Forms and Razor
- ◆ Easily customized through JavaScript and jQuery

- ◆ Some Web Widgets

- ◆ AutoComplete
- ◆ Calendar
- ◆ DropDownList
- ◆ Upload
- ◆ TreeView
- ◆ Grid

- ◆ Some DataViz Widgets

- ◆ Chart
- ◆ LinearGauge
- ◆ RadialGauge

◆ Usage of helpers

```
@(Html.Kendo().Grid((IEnumerable<Models.Product>)
    ViewBag.Products)
    .Name("grid")
    .Columns(columns =>
{
    columns.Bound(pr => pr.ProductID);
    columns.Bound(pr => pr.ProductName);
    columns.Bound(pr => pr.UnitsInStock);
})
    .Pageable()
    .Sortable()
)
```



Kendo UI MVC Helpers

Live Demo

Kendo UI ASP.NET MVC Wrappers

Questions?

1. Create the WebForms “Library System” exam with ASP.NET MVC and Kendo UI Server Side Wrappers using as much widgets as you can:
 - TreeView for the Home page
 - Grid for the Administration
 - AutoComplete for the Search input
 - DropDownList for category selection
 - Others

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