# Manually integrating DevExpress with MVC Application

## Refer DevExpress assemblies to the ASP.NET MVC application

Add DevExpress Assemblies from the location: C:\Program Files\DevExpress 14.1\Components\Bin\Framework

 DevExpress.Data.v14.2

 DevExpress.Web.v14.2

 DevExpress.Web.ASPxHtmlEditor.v14.2

 DevExpress.Web.ASPxSpellChecker.v14.2

 DevExpress.Web.ASPxTreeList.v14.2

 DevExpress.Web.ASPxThemes.v14.2

 DevExpress.Web.ASPxPivotGrid.v14.2

 DevExpress.Utils.v14.2

 DevExpress.RichEdit.v14.2.Core.dll

 DevExpress.Office.v14.2.Core.dll

 DevExpress.SpellChecker.v14.2.Core

 DevExpress.Charts.v14.2.Core

 DevExpress.XtraCharts.v14.2

 DevExpress.XtraCharts.v14.2.Web

 DevExpress.Printing.v14.2.Core

 DevExpress.XtraReports.v14.2

 DevExpress.XtraReports.v14.2.Web

 DevExpress.XtraPivotGrid.v14.2

 DevExpress.PivotGrid.v14.2.Core

 DevExpress.XtraScheduler.v14.2.Core

 DevExpress.Web.ASPxScheduler.v14.2

 DevExpress.Web.Mvc.v14.2

Set copy local property to true.

## Register DevExpress HTTP Handlers within the Application's Web.config File

Add DevExpress HTTP Handlers in the Application’s Web Config

<httpModules>

<add type="DevExpress.Web.ASPxClasses.ASPxHttpHandlerModule, DevExpress.Web.v14.1, Version=14.1.8.0, Culture=neutral, PublicKeyToken=B88D1754D700E49A" name="ASPxHttpHandlerModule"/>

</httpModules>

<system.webServer>

<modules runAllManagedModulesForAllRequests="true">

<add type="DevExpress.Web.ASPxClasses.ASPxHttpHandlerModule, DevExpress.Web.v14.1, Version=14.1.8.0, Culture=neutral, PublicKeyToken=B88D1754D700E49A" name="ASPxHttpHandlerModule"/>

</modules>

</system.webServer>

## Register the Required Namespaces within the ~/Views/Web.config File

Include DevExpress Namespace in the Web.Config under the Views.

<system.web.webPages.razor>

<pages pageBaseType="System.Web.Mvc.WebViewPage">

<namespaces>

<add namespace="System.Web.Helpers" />

<add namespace="System.Web.Mvc" />

<add namespace="System.Web.Mvc.Ajax" />

<add namespace="System.Web.Mvc.Html" />

<add namespace="System.Web.Routing" />

<add namespace="System.Web.WebPages" />

<add namespace="DevExpress.Utils" />

<add namespace="DevExpress.Web.ASPxClasses" />

<add namespace="DevExpress.Web.ASPxGridView" />

<add namespace="DevExpress.Web.Export" />

<add namespace="DevExpress.Web.ASPxDocking" />

<add namespace="DevExpress.Web.ASPxEditors" />

<add namespace="DevExpress.Web.ASPxCallbackPanel" />

<add namespace="DevExpress.Web.ASPxDataView" />

<add namespace="DevExpress.Web.ASPxLoadingPanel" />

<add namespace="DevExpress.Web.ASPxMenu" />

<add namespace="DevExpress.Web.ASPxNavBar" />

<add namespace="DevExpress.Web.ASPxPopupControl" />

<add namespace="DevExpress.Web.ASPxRoundPanel" />

<add namespace="DevExpress.Web.ASPxSplitter" />

<add namespace="DevExpress.Web.ASPxTabControl" />

<add namespace="DevExpress.Web.ASPxTreeList" />

<add namespace="DevExpress.Web.ASPxTreeView" />

<add namespace="DevExpress.Web.ASPxUploadControl" />

<add namespace="DevExpress.Web.ASPxHtmlEditor" />

<add namespace="DevExpress.Web.ASPxSpellChecker" />

<add namespace="DevExpress.XtraCharts" />

<add namespace="DevExpress.XtraCharts.Web" />

<add namespace="DevExpress.XtraReports" />

<add namespace="DevExpress.XtraReports.UI" />

<add namespace="DevExpress.XtraReports.Web" />

<add namespace="DevExpress.XtraPivotGrid" />

<add namespace="DevExpress.Data.PivotGrid" />

<add namespace="DevExpress.Web.ASPxPivotGrid" />

<add namespace="DevExpress.Web.ASPxPivotGrid.Export" />

<add namespace="DevExpress.Web.Mvc" />

<add namespace="DevExpress.Web.Mvc.UI" />

<add namespace="DevExpress.XtraScheduler" />

<add namespace="DevExpress.XtraScheduler.Native" />

<add namespace="DevExpress.Web.ASPxScheduler" />

</namespaces>

</pages>

</system.web.webPages.razor>

## Register the DevExpress Configuration Section in the Web.config File

Add DevExpress section entry in Config.Section

<configSections>

<sectionGroup name="devExpress">

<section name="themes" type="DevExpress.Web.ASPxClasses.ThemesConfigurationSection, DevExpress.Web.v14.1, Version=14.1.8.0, Culture=neutral, PublicKeyToken=b88d1754d700e49a" requirePermission="false" />

<section name="compression" type="DevExpress.Web.ASPxClasses.CompressionConfigurationSection, DevExpress.Web.v14.1, Version=14.1.8.0, Culture=neutral, PublicKeyToken=b88d1754d700e49a" requirePermission="false" />

<section name="settings" type="DevExpress.Web.ASPxClasses.SettingsConfigurationSection, DevExpress.Web.v14.1, Version=14.1.8.0, Culture=neutral, PublicKeyToken=b88d1754d700e49a" requirePermission="false" />

<section name="errors" type="DevExpress.Web.ASPxClasses.ErrorsConfigurationSection, DevExpress.Web.v14.1, Version=14.1.8.0, Culture=neutral, PublicKeyToken=b88d1754d700e49a" requirePermission="false" />

</sectionGroup>

</configSections>

## Attach the Required JavaScript Files

Include the following JS in the View on which DevExpress control is to be hosted.

<script src="@Url.Content("~/Scripts/jquery-1.11.1.min.js")" type="text/javascript"></script>

<!-- The DevExpress ASP.NET MVC Extensions' scripts -->

@Html.DevExpress().GetScripts(

new Script { ExtensionSuite = ExtensionSuite.NavigationAndLayout },

new Script { ExtensionSuite = ExtensionSuite.HtmlEditor },

new Script { ExtensionSuite = ExtensionSuite.GridView },

new Script { ExtensionSuite = ExtensionSuite.PivotGrid },

new Script { ExtensionSuite = ExtensionSuite.Editors },

new Script { ExtensionSuite = ExtensionSuite.Chart },

new Script { ExtensionSuite = ExtensionSuite.Report },

new Script { ExtensionSuite = ExtensionSuite.Scheduler },

new Script { ExtensionSuite = ExtensionSuite.TreeList }

)

## Attach the Required Style Sheets

Include the following CSS in the View on which DevExpress control is to be hosted.

@Html.DevExpress().GetStyleSheets(

new StyleSheet { ExtensionSuite = ExtensionSuite.NavigationAndLayout },

new StyleSheet { ExtensionSuite = ExtensionSuite.Editors },

new StyleSheet { ExtensionSuite = ExtensionSuite.HtmlEditor },

new StyleSheet { ExtensionSuite = ExtensionSuite.GridView },

new StyleSheet { ExtensionSuite = ExtensionSuite.PivotGrid },

new StyleSheet { ExtensionSuite = ExtensionSuite.Chart },

new StyleSheet { ExtensionSuite = ExtensionSuite.Report },

new StyleSheet { ExtensionSuite = ExtensionSuite.Scheduler },

new StyleSheet { ExtensionSuite = ExtensionSuite.TreeList }

)

## Add Ignore Route Statements

Add following ignores the Route.Config

routes.IgnoreRoute("{resource}.axd/{\*pathInfo}");

routes.IgnoreRoute("{resource}.ashx/{\*pathInfo}");

## Override the Default Model Binder

In the Global.asax override the default model behaviour.

protected void Application\_Start(){

ModelBinders.Binders.DefaultBinder = new DevExpress.Web.Mvc.DevExpressEditorsBinder();

}

## Use Required DevExpress control on the View.

