



```
using System.Web;
using System.Web.Optimization;

namespace WebUI
{
    public class BundleConfig
    {
        public static void RegisterBundles(BundleCollection bundles)
        {
            bundles.Add(new ScriptBundle("~/bundles/jquery").Include(
                "~/Scripts/jquery-3.3.1.js"));

            bundles.Add(new ScriptBundle("~/bundles/jqueryval").Include(
                "~/Scripts/jquery.validate*"));

            bundles.Add(new ScriptBundle("~/bundles/modernizr").Include(
                "~/Scripts/modernizr-*"));

            bundles.Add(new ScriptBundle("~/bundles/bootstrap").Include(
                "~/Scripts/bootstrap.js",
                "~/Scripts/popper.min.js",
```

```

        "~/Scripts/respond.js"));

bundles.Add(new ScriptBundle("~/Scripts/TaskMessage").Include(
    "~/Scripts/TypeScript/GreetingPage.js",
    "~/Scripts/TypeScript/VisiblePagesController.js",
    "~/Scripts/TypeScript/app.js"
));

bundles.Add(new StyleBundle("~/Content/css").Include(
    "~/Content/bootstrap.css",
    "~/Content/style.css",
    "~/Content/media.css",
    "~/Content/font-awesome.min.css"
));
    }
}

using System.Data.Entity;
using Domain.Repository;

public static class NinjectWebCommon
{
    ...

    /// <summary>
    /// Load your modules or register your services here!
    /// </summary>
    /// <param name="kernel">The kernel.</param>
    private static void RegisterServices(IKernel kernel)
    {
        kernel.Bind<DbContext>().To<MessengerTaskContext>().InRequestScope();
        kernel.Bind(typeof(IRepository<>)).To(typeof(MSSQLEFRepository<>));
    }
}

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web.Http;

namespace WebUI
{
    public static class WebApiConfig
    {
        public static void Register(HttpConfiguration config)
        {
            config.MapHttpAttributeRoutes();

            config.Routes.MapHttpRoute(
                name: "FilterCategoryName",
                routeTemplate: "api/{controller}/{category}/{name}/{skip}"
            );
        }
    }
}

```

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Mvc;
using WebUI.Models;
using Domain.Entities;
using Domain.Repository;

namespace WebUI.Controllers
{
    public class HomeController : Controller
    {
        public ActionResult Index()
        {
            return View();
        }
    }
}

```

Views/Home/Index

```

@{
    ViewBag.Title = "Index";
}

<div id="CreateCategoryForm">
    <div class="container">
        <div class="row">
            <div class="col-md-12">
                <div class="panel panel-primary">
                    <div class="panel-heading text-center">
                        <h2>Create Category</h2>
                    </div>
                    <div class="panel-body">
                        <div class="form-group">
                            <label>Name: </label>
                            <input class="form-control" type="text" name="Name" value="" />
                        </div>
                        <div class="text-center">
                            <button class="btn btn-primary">Create</button>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </div>
</div>

```

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Mvc;
using Domain.Entities;
using Domain.Repository;

namespace WebUI.Controllers
{
    public class NavController : Controller
    {
        IRepository<Category> categories;
        IRepository<User> users;

        public NavController(IRepository<Category> categories, IRepository<User> users)
        {
        }
    }
}

```

```

    {
        this.categories = categories;
        this.users = users;
    }

    [ChildActionOnly]
    public PartialViewResult Categories()
    {
        return PartialView(categories.Get().Select(x => x.Name).OrderBy(x=>x).Distinct().ToList());
    }

    [ChildActionOnly]
    public PartialViewResult Users()
    {
        return PartialView(users.Get().Select(x => x.FirstName + " " + x.LastName).OrderBy(x =>
x).Distinct().ToList());
    }
}

```

Views/Nav/Categories

```

@model IEnumerable<string>

<li><a class="selected">All</a></li>
<li role="separator" class="divider"></li>
@foreach (string category in Model)
{
    <li><a>@category</a></li>
}

```

Views/Nav/Users

```

@model IEnumerable<string>

<li><a class="selected">All</a></li>
<li role="separator" class="divider"></li>
@foreach (string participant in Model)
{
    <li><a>@participant</a></li>
}

```

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Net;
using System.Net.Http;
using System.Web.Http;
using Domain.Entities;
using Domain.Repository;
using WebUI.Models;

```

```

namespace WebUI.Controllers

```

```

{
    public class EventsController : ApiController
    {
        // Variable to connect to the database
        IRepository<UsersTask> usersTask;

        // Number of elements that we will send to the client
        int take = 4;

        public EventsController()
        {
            // the variable will be assigned a value using Ninject

```

```

        this.usersTask = new MSSQLEFRepository<UsersTask>(new MessengerTaskContext());
    }

    public EventsController(IRepository<UsersTask> usersTask)
    {
        // the variable will be assigned a value using Ninject
        this.usersTask = new MSSQLEFRepository<UsersTask>(new MessengerTaskContext());
    }

    public HttpResponseMessage Get(string category, string name, int skip)
    {
        // List of messages to be sent to the user
        var list3 = usersTask.GetByCategoryAndName(category, name, skip, take);

        // View model
        EventMsg eventMsg = new EventMsg();

        eventMsg.List = list3;

        // Check if there are more events in the database. If yes then return More with status code
        200. If there is no "There are no more events" and status code is 404
        if (list3.Count() == 0 || list3.Count() < take)
            eventMsg.Msg = "There are no more events";
        else
            eventMsg.Msg = "More";

        return Request.CreateResponse(HttpStatusCode.OK, eventMsg);
    }
}

```

Views/_ViewStart

```

@{
    Layout = "~/Views/Shared/_Layout.cshtml";
}

```

Views/Shared/_Layout

```

<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>@ViewBag.Title - приложение ASP.NET</title>
    @Styles.Render("~/Content/css")
    @Scripts.Render("~/bundles/modernizr")
</head>
<body>
    <button id="CreateCategoryBtn">Create Category</button>
    <button id="ShowGreetingPageBtn">Show Greeting Page</button>
    @RenderBody()
    <div id="GreetingPage">
        <header>
            <nav class="navbar navigation">
                <div class="container">
                    <span class="btn-information">hide</span>
                    <div class="row">
                        <div class="navbar-header">
                            <button class="navbar-toggle collapsed menu_btn" data-toggle="collapse"
data-target="#top_menu" aria-expanded="false">
                                <i class="fa fa-bars" aria-hidden="true"></i>
                            </button>

```

```

        <a href="" class="navbar-brand logo">
            T-Mobile
        </a>
    </div>

    <div class="collapse navbar-collapse" id="top_menu">
        <ul class="nav navbar-nav navbar-right menu">
            <li class="dropdown">
                <a class="dropdown-toggle" data-toggle="dropdown" role="button"
aria-haspopup="true" aria-expanded="false">
                    <span>Categories</span>
                    <span class="caret"></span>
                </a>
                <ul class="dropdown-menu scrollable categories">
                    @{ Html.RenderAction("Categories", "Nav"); }
                </ul>
            </li>
            <li class="dropdown">
                <a class="dropdown-toggle" data-toggle="dropdown" role="button"
aria-haspopup="true" aria-expanded="false">
                    <span>Participants</span>
                    <span class="caret"></span>
                </a>
                <ul class="dropdown-menu scrollable names">
                    @{ Html.RenderAction("Users", "Nav"); }
                </ul>
            </li>
        </ul>
    </div>
</div>
</nav>
</header>
<section class="helpful-inforamtion">
    <div class="s1">
        <div class="container">
            <div class="row">
                <div class="col-sm-12 col-lg-6 col-lg-offset-3 s1-1">
                    <div class="col-sm-6 col-lg-6 column1">
                        <span>Current category:</span>
                    </div>
                    <div class="col-sm-6 col-lg-6 column2 category">
                        <span><strong>All</strong></span>
                    </div>
                </div>
                <div class="col-sm-12 col-lg-6 col-lg-offset-3 s1-1">
                    <div class="col-sm-6 col-lg-6 column1">
                        <span>Current participant:</span>
                    </div>
                    <div class="col-sm-6 col-lg-6 column2 name">
                        <span><strong>All</strong></span>
                    </div>
                </div>
            </div>
        </div>
    </div>
</div>
</section>
<section>
    <div class="s2">
        <div class="container">
            <div class="row"></div>
            <div id="siteEvents"></div>
            <div id="more">
                <span id="getmore">More</span>
            </div>
        </div>
    </div>
</section>

```

```

        </div>
    </div>
</div>
</section>
<footer>
    <div class="container">
        <div class="row soc_btns">

            <a href="https://www.facebook.com" target="_blank" class="soc_btn">
                <i class="fa fa-facebook" aria-hidden="true"></i>
            </a>
            <a href="https://twitter.com" target="_blank" class="soc_btn">
                <i class="fa fa-twitter" aria-hidden="true"></i>
            </a>
            <a href="https://linkedin.com" target="_blank" class="soc_btn">
                <i class="fa fa-linkedin-square" aria-hidden="true"></i>
            </a>
        </div>
        <div class="row copyright">
            © 2017 Dmitriy Konshin Taganrog
        </div>
    </div>
</footer>
</div>

@Scripts.Render("~/bundles/jquery")
@Scripts.Render("~/bundles/bootstrap")
@Scripts.Render("~/Scripts/TaskMessage")
@RenderSection("scripts", required: false)
<script>
    Program.Main()
</script>
</body>
</html>

```

Web.config

```

<?xml version="1.0" encoding="utf-8"?>
<!--
    For more information on how to configure your ASP.NET application, please visit
    https://go.microsoft.com/fwlink/?LinkId=301880
-->
<configuration>
    <configSections>
        <!-- For more information on Entity Framework configuration, visit
        http://go.microsoft.com/fwlink/?LinkId=237468 -->
        <section name="entityFramework"
            type="System.Data.Entity.Internal.ConfigFile.EntityFrameworkSection, EntityFramework, Version=6.0.0.0,
            Culture=neutral, PublicKeyToken=b77a5c561934e089" requirePermission="false" />
    </configSections>
    <appSettings>
        <add key="webpages:Version" value="3.0.0.0" />
        <add key="webpages:Enabled" value="false" />
        <add key="ClientValidationEnabled" value="true" />
        <add key="UnobtrusiveJavaScriptEnabled" value="true" />
    </appSettings>
    <system.web>
        <compilation debug="true" targetFramework="4.5.1" />
        <httpRuntime targetFramework="4.5.1" />
        <httpModules>
            <add name="ApplicationInsightsWebTracking"
            type="Microsoft.ApplicationInsights.Web.ApplicationInsightsHttpModule, Microsoft.AI.Web" />
        </httpModules>
    </system.web>
    <system.webServer>

```

```

    <handlers>
      <remove name="ExtensionlessUrlHandler-Integrated-4.0" />
      <remove name="OPTIONSVerbHandler" />
      <remove name="TRACEVerbHandler" />
      <add name="ExtensionlessUrlHandler-Integrated-4.0" path="*" verb="*"
type="System.Web.Handlers.TransferRequestHandler" preCondition="integratedMode, runtimeVersionv4.0" />
    </handlers>
    <validation validateIntegratedModeConfiguration="false" />
    <modules>
      <remove name="ApplicationInsightsWebTracking" />
      <add name="ApplicationInsightsWebTracking"
type="Microsoft.ApplicationInsights.Web.ApplicationInsightsHttpModule, Microsoft.AI.Web"
preCondition="managedHandler" />
    </modules>
  </system.webServer>
  <runtime>
    <assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
      <dependentAssembly>
        <assemblyIdentity name="Newtonsoft.Json" culture="neutral" publicKeyToken="30ad4fe6b2a6aeed" />
        <bindingRedirect oldVersion="0.0.0-6.0.0.0" newVersion="6.0.0.0" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.Optimization" publicKeyToken="31bf3856ad364e35" />
        <bindingRedirect oldVersion="1.0.0-1.1.0.0" newVersion="1.1.0.0" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="WebGrease" publicKeyToken="31bf3856ad364e35" />
        <bindingRedirect oldVersion="0.0.0-1.5.2.14234" newVersion="1.5.2.14234" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.Helpers" publicKeyToken="31bf3856ad364e35" />
        <bindingRedirect oldVersion="1.0.0-3.0.0.0" newVersion="3.0.0.0" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.Mvc" publicKeyToken="31bf3856ad364e35" />
        <bindingRedirect oldVersion="0.0.0-5.2.3.0" newVersion="5.2.3.0" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.WebPages" publicKeyToken="31bf3856ad364e35" />
        <bindingRedirect oldVersion="1.0.0-3.0.0.0" newVersion="3.0.0.0" />
      </dependentAssembly>
    </assemblyBinding>
  </runtime>
  <system.codedom>
    <compilers>
      <compiler language="c#;cs;csharp" extension=".cs"
type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.CSharpCodeProvider,
Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=1.0.8.0, Culture=neutral,
PublicKeyToken=31bf3856ad364e35" warningLevel="4" compilerOptions="/langversion:6
/nowarn:1659;1699;1701" />
      <compiler language="vb;vbs;visualbasic;vbscript" extension=".vb"
type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.VBCodeProvider,
Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=1.0.8.0, Culture=neutral,
PublicKeyToken=31bf3856ad364e35" warningLevel="4" compilerOptions="/langversion:14 /nowarn:41008
/define:MYTYPE=&quot;Web&quot; /optionInfer+" />
    </compilers>
  </system.codedom>
  <entityFramework>
    <defaultConnectionFactory type="System.Data.Entity.Infrastructure.LocalDbConnectionFactory,
EntityFramework">
      <parameters>
        <parameter value="mssqllocaldb" />
      </parameters>
    </defaultConnectionFactory>
  </entityFramework>
  </providers>

```



```
        <provider invariantName="System.Data.SqlClient"
type="System.Data.Entity.SqlServer.SqlProviderServices, EntityFramework.SqlServer" />
    </providers>
</entityFramework>
<connectionStrings>
    <add name="MessengerTaskContext" connectionString="data source=(localdb)\v11.0;initial
catalog=MessengerAndTaskDB;integrated security=True;MultipleActiveResultSets=True;App=EntityFramework"
providerName="System.Data.SqlClient" />
</connectionStrings>
</configuration>
```