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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",
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"~/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<MessangerTaskContext>().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 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>
<a class="selected">All</a>
@foreach(string category in Model)
   <a>@category</a>
}
Views/Nav/Users
@model IEnumerable<string>
<a class="selected">All</a>
@foreach (string participant in Model)
   <a>@participant</a>
}
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
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```
this.usersTask = new MSSQLEFRepository<UsersTask>(new MessangerTaskContext());
        }
        public EventsController(IRepository<UsersTask> usersTask)
            // the variable will be assigned a value using Ninject
            this.usersTask = new MSSQLEFRepository<UsersTask>(new MessangerTaskContext());
        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)</pre>
                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"</pre>
data-target="#top_menu" aria-expanded="false">
                                 <i class="fa fa-bars" aria-hidden="true"></i></i>
                            </button>
```

```
<a href="" class="navbar-brand logo">
                             T-Mobile
                      </div>
                      <div class="collapse navbar-collapse" id="top menu">
                         class="dropdown">
                                 <a class="dropdown-toggle" data-toggle="dropdown" role="button"</pre>
aria-haspopup="true" aria-expanded="false">
                                    <span>Categories</span>
                                    <span class="caret"></span>
                                 @{ Html.RenderAction("Categories", "Nav"); }
                                 class="dropdown">
                                 <a class="dropdown-toggle" data-toggle="dropdown" role="button"</pre>
aria-haspopup="true" aria-expanded="false">
                                    <span>Participants</span>
                                    <span class="caret"></span>
                                 @{ Html.RenderAction("Users", "Nav"); }
                                 </div>
                  </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>
       </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>
        <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></i>
                    </a>
                    <a href="https://twitter.com" target=" blank" class="soc btn">
                         <i class="fa fa-twitter" aria-hidden="true"></i></i>
                    </a>
                    <a href="https://linkedin.com" target="_blank" class="soc_btn">
                         <i class="fa fa-linkedin-square" aria-hidden="true"></i></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"</pre>
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>
  <svstem.web>
    <compilation debug="true" targetFramework="4.5.1" />
    <httpRuntime targetFramework="4.5.1" />
    <httpModules>
      <add name="ApplicationInsightsWebTracking"</pre>
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="*"</pre>
type="System.Web.Handlers.TransferRequestHandler" preCondition="integratedMode,runtimeVersionv4.0" />
    <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="0.0.0.0-6.0.0.0" newVersion="6.0.0.0" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.Optimization" publicKeyToken="31bf3856ad364e35" />
        <bindingRedirect oldVersion="1.0.0.0-1.1.0.0" newVersion="1.1.0.0" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="WebGrease" publicKeyToken="31bf3856ad364e35" />
        <bindingRedirect oldVersion="0.0.0.0-1.5.2.14234" newVersion="1.5.2.14234" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.Helpers" publicKeyToken="31bf3856ad364e35" />
        <bindingRedirect oldVersion="1.0.0.0-3.0.0.0" newVersion="3.0.0.0" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.Mvc" publicKeyToken="31bf3856ad364e35" />
        <bindingRedirect oldVersion="0.0.0.0-5.2.3.0" newVersion="5.2.3.0" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.WebPages" publicKeyToken="31bf3856ad364e35" />
        <bindingRedirect oldVersion="1.0.0.0-3.0.0.0" newVersion="3.0.0.0" />
      </dependentAssembly>
    </assemblyBinding>
  </runtime>
  <system.codedom>
    <compilers>
      <compiler language="c#;cs;csharp" extension=".cs"</pre>
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"</pre>
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=\" Web\" /optionInfer+" />
    </compilers>
  </system.codedom>
  <entityFramework>
    <defaultConnectionFactory type="System.Data.Entity.Infrastructure.LocalDbConnectionFactory,</pre>
EntityFramework">
      <parameters>
        <parameter value="mssqllocaldb" />
      </parameters>
    </defaultConnectionFactory>
    oviders>
```