

## **SPA AND AJAX**

1. Build your Model.

```
public class ContactViewModel
{
    [Required(ErrorMessage = "* Name is required")]
    public string Name { get; set; }

    [DataType(DataType.EmailAddress)]
    [Required(ErrorMessage = "* Email is required")]
    public string Email { get; set; }

    public string Subject { get; set; }

    [Required(ErrorMessage = "* Message is required")]
    [UIHint("MultilineText")]
    public string Message { get; set; }
}
```

- 2. Add the sensitive data necessary to process and send email communication into an external configuration file.
  - a. First, you will right click on the solution and add a folder called configs (if it is not already there). Then you will right click on the configs folder and select Add > XML File.
     You will name the file AppSecretKeys.config. Into that file, you will add the following code.

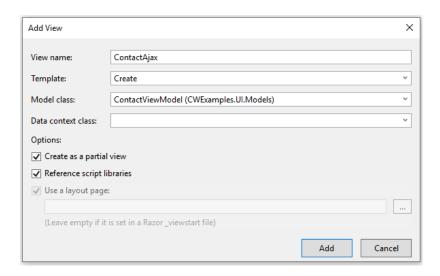
b. You will then connect this external configuration file to the web.config file in the root of the UI layer by adding the file attribute, as shown below, onto the opening <appSettings> tag.

```
<appSettings file="configs\AppSecretKeys.config">
  <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" />
  <add key="owin:AppStartup" value="IdentitySample.Startup,TestingProject" />
  </appSettings>
```

3. Build or Correct the Action in the Home Controller. No get, because the form is embedded in the index.html or the \_Layout (pictured Later).

```
[HttpPost]
public JsonResult ContactAjax(ContactViewModel cvm)
    //You can make this whatever you want, it will be the body of the message sent
   string body = $"{cvm.Name} has sent you the following message:<br/>'" +
        $"{cvm.Message} <strong>from the email address:</strong> {cvm.Email}.";
    //Message Object
   MailMessage mm = new MailMessage(
   //FROM address - email must be on host - creds stored in Web.config
   ConfigurationManager.AppSettings["EmailUser"].ToString(),
   //TO - email doesn't have to be on host - creds stored in Web.config
   ConfigurationManager.AppSettings["EmailTo"].ToString(),
   //email subject
   cvm.Subject,
    //body of the email
   body);
   //allow HTML in email (that is our formatting with br and strong tags above)
   mm.IsBodyHtml = true;
   //you can make the message be designated as high priority
   mm.Priority = MailPriority.High;
   //reply to the Person who filled out the form, not your domain email
   mm.ReplyToList.Add(cvm.Email);
   //configure the mail client - creds stored in web.config
   SmtpClient client = new SmtpClient(ConfigurationManager.AppSettings["EmailClient"].ToString());
    //configure the email credentials using values from web.config
    client.Credentials = new NetworkCredential(ConfigurationManager.AppSettings["EmailUser"].ToString(),
   ConfigurationManager.AppSettings["EmailPass"].ToString());
    try
    {
        //send email
       client.Send(mm);
    catch (Exception ex)
        //log error in ViewBag to be seen by admins
       ViewBag.Message = ex.StackTrace;
    return Json(cvm);
```

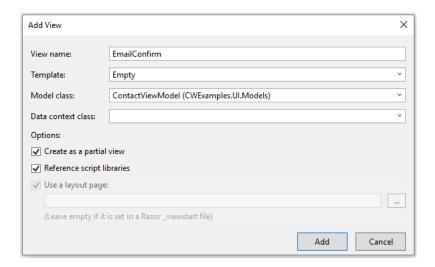
4. Add a Partial View by right clicking the ContactAJAX Action.



5. The only change to be made in the form generated:

```
@using (Html.BeginForm("","",FormMethod.Post, new {id="ContactCreateForm" }))
{
    @Html.AntiForgeryToken()
```

6. Add another partial view of your Email Confirmation. Right click the Home Folder and Add View.



7. Add some HTML to that view to indicate you have received the email:

Copyright © 2020 Centriq Training. All Rights Reserved.

8. Place the reference to the contact form and the confirmation in the Layout:

```
<div class="container body-content">
    @RenderBody()

    <div id="contactForm">
        @Html.Partial("ContactAjax", new CWExamples.UI.Models.ContactViewModel())
        </div>
        <div id="contactConfirm">
            @Html.Partial("EmailConfirm", new CWExamples.UI.Models.ContactViewModel())
        </div>
        </div>
    </div>
```

- 9. In the \_Layout.cs, add a link to JQuery/AJAX: <a href="https://cdnjs.com/libraries/jquery/">https://cdnjs.com/libraries/jquery/</a>
  - a. Locate: <a href="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.3.1/jquery.js">https://cdnjs.cloudflare.com/ajax/libs/jquery/3.3.1/jquery.js</a>
  - b. Add to Layout: <script
     src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.3.1/jquery.js"></s
     cript>
  - c. Start with this link at the bottom of your javascript links but above the RenderSection("scripts", false)
    - i. You may have to move this around to get it to function.
- 10. Lastly, in the Layout.cs, add the following AFTER all jQuery links and the RenderSection (scripts,false):

```
<script>
    $("#ContactCreateForm").submit(function (e) {
        var formData = $(this).serializeArray();
        e.preventDefault();
        $.ajax({
            url: '@Url.Action("ContactAjax", "Home")',
            type: 'POST',
            data: formData,
            datatype: 'json',
            success: function (data) {
                $("#contactForm").hide();
                //in your style sheet you should have a line to
                //hide this div until this time:
                //#contactConfirm{display:none;}
                $("#contactConfirm").show();
            }
        });
   });
</script>
```