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Html.Action And Html.RenderAction In ASP.NET MVC

In this article you will learn about Html.Action and Html.RenderAction in ASP.NET MVC.

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8   15   251.6k

This article introduces both @Html.Action and @Html.RenderAction. These are used to call a partial view in another view by action method. As we have other options such as @Html.Partial and @Html.RenderPartial to call a partial view in other views then why do we use @Html.Action and @Html.RenderAction ? We use these two html helper methods in the following scenarios.

1. To call partial view in another view.
2. Partial view is independent to corresponding view in other words partial view model in not related to corresponding view model in strongly typed views.
3. We need some operations over data of partial view before it render in corresponding view.
4. We call a partial view from ChildActionOnly action methods in another view by GET request.

Whenever we got above situation in our application then we prefer to use these Html helper methods. Now let's have a look on summery information of these Html helper methods.

@Html.Action

This Html.Action renders partial view as an HTML string so we can store it in another string variable. It is string return type method so first it returns result as a string then renders result to response.

This is also same as Html.Action but main differeı   ASK A QUESTION   sı   CONTRIBUTE
response that's why it is more efficient if the action returns a large amount of HTML over
@Html.Action.

Now we will have a look on particle implementation of these two.

Using Code

We create an MVC application which has a view for employee login and employee registration
as both employee login and employee registration are independent to each other. To combine
these on single view, we create two partial views, one for Employee login and another for
employee registration. As these two views are also independent to corresponding views in
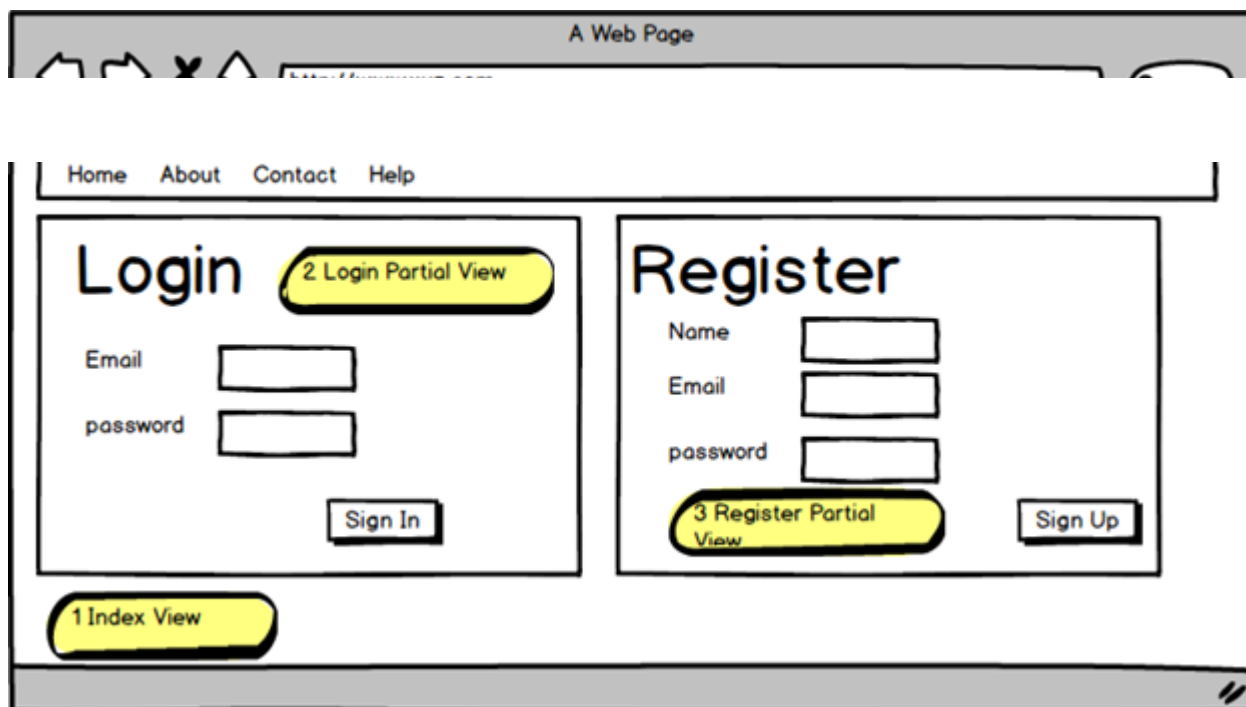which these call.

Figure 1: Partial View in corresponding View

First of all we create two view models one for Employee Login (EmployeeLoginViewModel) and
another for Employee Registration (EmployeeViewModel). The following code snippet shows
both.

```
01.   namespace EFOperation.Models
02.   {
03.       public class EmployeeLoginViewModel
04.       {
05.           public string Email { get; set; }
06.           public string Password { get; set; }
```

```
10.   using System.ComponentModel.DataAnnotations;
11.
12.   namespace EFOperation.Models
13.   {
14.       public class EmployeeViewModel
15.       {
16.           public string Name { get; set; }
17.           public string Email { get; set; }
18.           public string Password { get; set; }
19.           [Display(Name="Confirm Password")]
20.           public string ConfirmPassword { get; set; }
21.       }
22.   }
```

As per figure 1, we create an Index view which has both employee login and employee registration partial view so we define a controller that has three action methods. The "Index" action method returns main view and other two child action methods "EmployeeLogin" and "EmployeeRegistration". The following code snippet shows EmployeeController.

```
03.
04.   namespace EFOperation.Controllers
05.   {
06.       public class EmployeeController : Controller
07.       {
08.
09.           public ActionResult Index()
10.           {
11.               return View("Index");
12.           }
13.
14.           [ChildActionOnly]
15.           public ActionResult EmployeeLogin()
16.           {
17.               EmployeeLoginViewModel model = new EmployeeLoginViewModel();
18.               return PartialView("_EmployeeLogin",model);
19.           }
20.           [ChildActionOnly]
21.           public ActionResult EmployeeRegistration()
22.           {
23.               EmployeeViewModel model = new EmployeeViewModel();
24.               return PartialView("_EmployeeRegistration",model);
25.           }
26.       }
27.   }
```

@Html.RenderAction, we can use independent m how partial views are called in corresponding view. The following code snippet for Employee Login partial view.

```
01.  @model EFOperation.Models.EmployeeLoginViewModel
02.
03.  <section id="loginForm">
04.      @using (Html.BeginForm("EmployeeLogin", "Employee", new { ReturnUrl =
     horizontal", role = "form" }))
05.      {
06.          @Html.AntiForgeryToken()
07.          <h4>Use a local account to log in.</h4>
08.          <hr />
09.          <div class="form-group">
10.              @Html.LabelFor(m => m.Email, new { @class = "col-md-
     2 control-label" })
11.              <div class="col-md-10">
12.                  @Html.TextBoxFor(m => m.Email, new { @class = "form-
     control" })
13.              </div>

16.              @Html.LabelFor(m => m.Password, new { @class = "col-md-
     2 control-label" })
17.              <div class="col-md-10">
18.                  @Html.PasswordFor(m => m.Password, new { @class = "form-
     control" })
19.                  @Html.ValidationMessageFor(m => m.Password)
20.              </div>
21.          </div>
22.          <div class="form-group">
23.              <div class="col-md-offset-2 col-md-10">
24.                  <input type="submit" value="Log in" class="btn btn-
     default" />
25.              </div>
26.          </div>
27.      }
28.  </section>
```

The following code snippet for Employee registration view.

```
01.  @model EFOperation.Models.EmployeeViewModel
02.
03.  @using (Html.BeginForm("EmployeeRegistration", "Employee", FormMethod.Post
     horizontal", role = "form" }))
04.  {
05.      <h4>Create a new account.</h4>
06.      <hr />
07.
08.      <div class="form-group">
```

```
10.         <div class="col-md-10">
11.             @Html.TextBoxFor(m => m           ASK A QUESTION          ⁝          CONTRIBUTE
    control" })
12.         </div>
13.     </div>
14.     <div class="form-group">
15.         @Html.LabelFor(m => m.Email, new { @class = "col-md-2 control-
    label" })
16.         <div class="col-md-10">
17.             @Html.TextBoxFor(m => m.Email, new { @class = "form-
    control" })
18.         </div>
19.     </div>
20.     <div class="form-group">
21.         @Html.LabelFor(m => m.Password, new { @class = "col-md-
    2 control-label" })
22.         <div class="col-md-10">
23.             @Html.PasswordFor(m => m.Password, new { @class = "form-
    control" })
24.         </div>
25.     </div>
      2 control-label" })
28.         <div class="col-md-10">
29.             @Html.PasswordFor(m => m.ConfirmPassword, new { @class = "forr
    control" })
30.         </div>
31.     </div>
32.     <div class="form-group">
33.         <div class="col-md-offset-2 col-md-10">
34.             <input type="submit" class="btn btn-
    default" value="Register" />
35.         </div>
36.     </div>
37. }
```

Now we call both partial views with help of @Html.Action and @Html.RenderAction in main index view. The following code snippet is for the same.

```
01. @{
02.     ViewBag.Title = "Index";
03. }
04.
05. <div class="row">
06.
07.     <div class="col-lg-6">
08.         @Html.Action("EmployeeLogin")
09.     </div>
10.     <div class="col-lg-6">
11.         @{Html.RenderAction("EmployeeRegistration");}
```

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14. | </div>

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Now run the application and we get the same result as figure 2.

Figure 2: Index view

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Sribin Kumar   Oct 10, 2018

1713   50   0   0   0   Reply

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Tridip Bhattacharjee   Jul 27, 2017

843   1.2k   16.4k   0   0   Reply

How can we put javascript in a @Html.Action partial view, pls? This pw load after the view and I put the script in a section but it does not load. Maybe I should import jQuery and my script in partial view in case of Action? Thank you in advance.

Sándor Hatvani   May 27, 2017

1742   21   0   0   0   Reply

~~Vishal Kotecha~~

1760   3   0   0   0   Reply

After clicking login or register, i am not able to perform "RediretToRoute" or "Redirect" in the controller

Vishal Kotecha   Jan 05, 2017

1760   3   0   0   0   Reply

Great article.

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very nice

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