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Layout View, View, And Partial View In ASP.NET

Manoj Kalla   Updated date, Jun 16, 2016   13.8k   13   0

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Let me explain the following terms:

1. Layout View: Master Page type of functionalities.
2. View: Content Page.
3. Partial View: User Control.

Layout View

It is used for the display of some part of the web page constant, such as header and footer, and sometimes, the left side bar or the right side bar. It has a common UI component which is shareable on all the pages.

Layout view is a parent container in which view and partial view renders on the client side.

View

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required to use the Layout View and sometimes it is not required.

In the view file, which uses layout view, there is no basic <HTML> , <HEAD> and <BODY> tags because this is common.

If you are creating VIEW without Layout view, then the view file is created with full HTML tags like <HTML> , <HEAD> and <BODY> , because this is an individual view file.
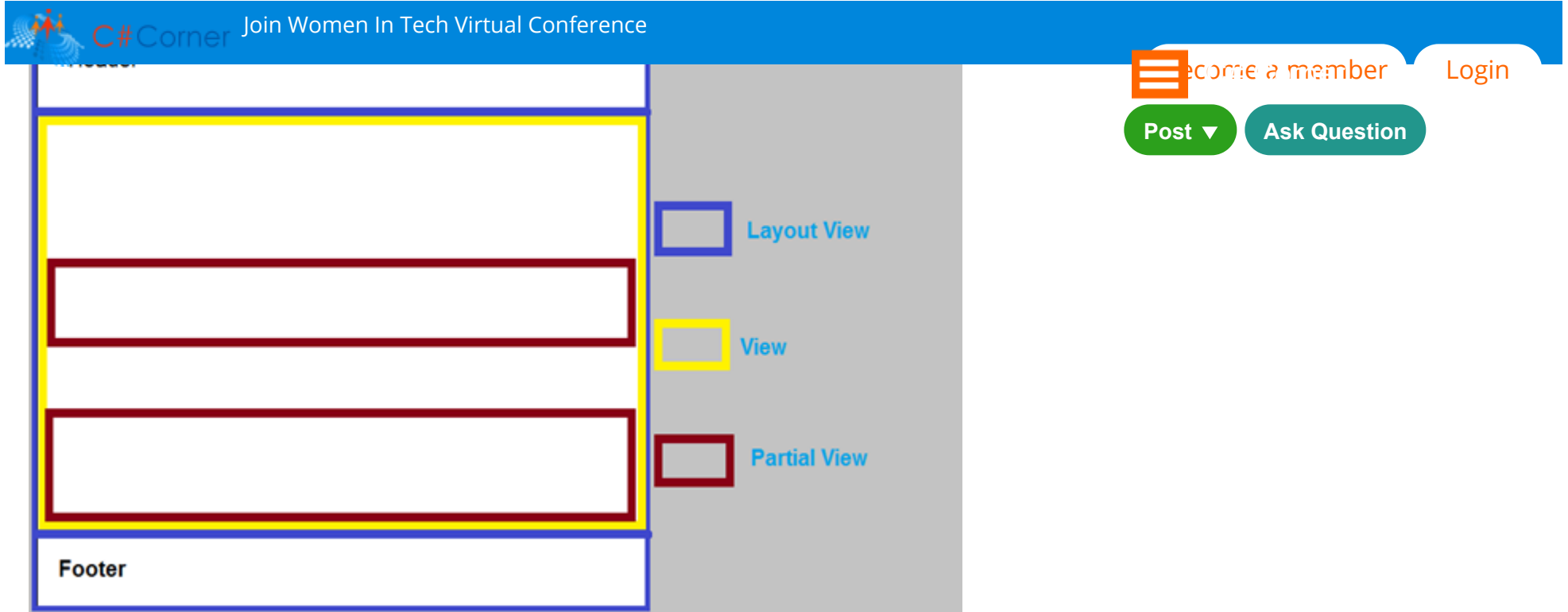
Partial View

The Partial view is similar to the User control of Webform terminology.

Example

We want to display the current balance of the user and the number of days left for the events on the page.
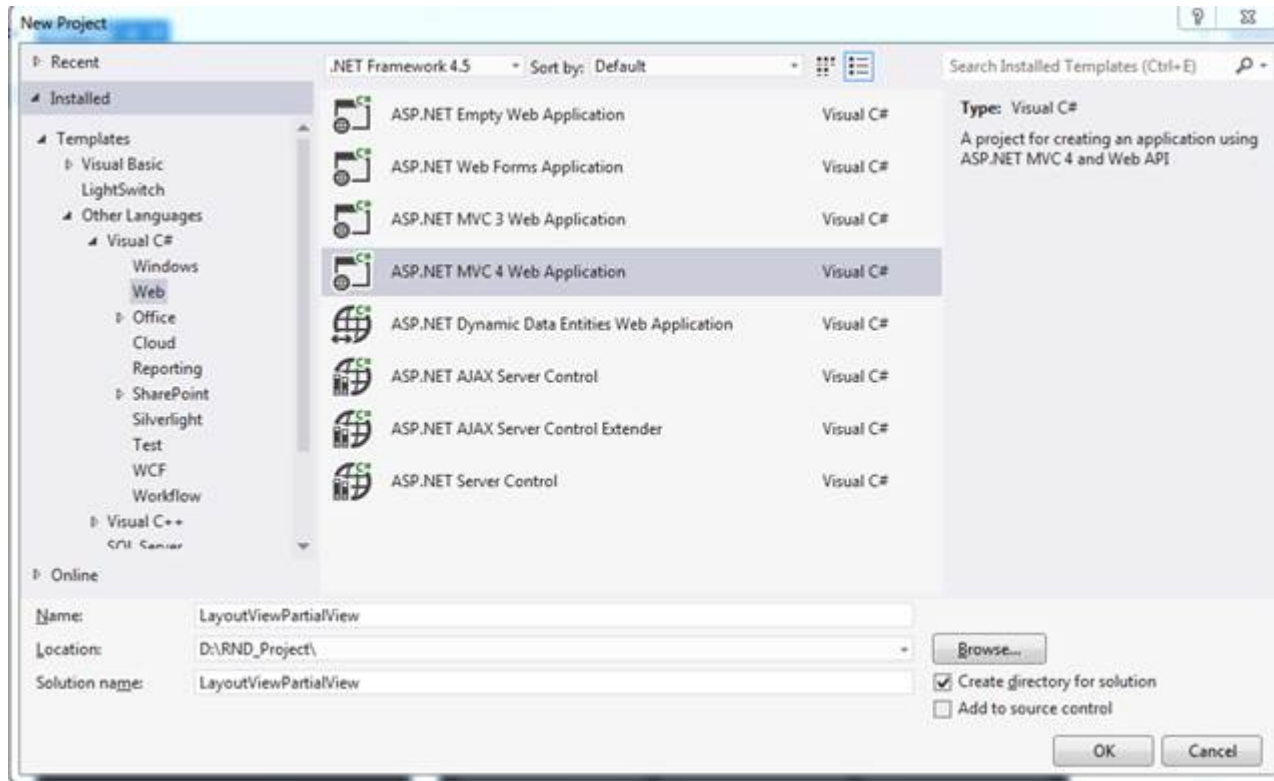
As you can see in the image above:

- Indigo(Blue) line is a Layout view.
- Yellow line is a view.
- Purple line is a Partial view.

In the course of this article, you will learn how:

- To create a Layout view.
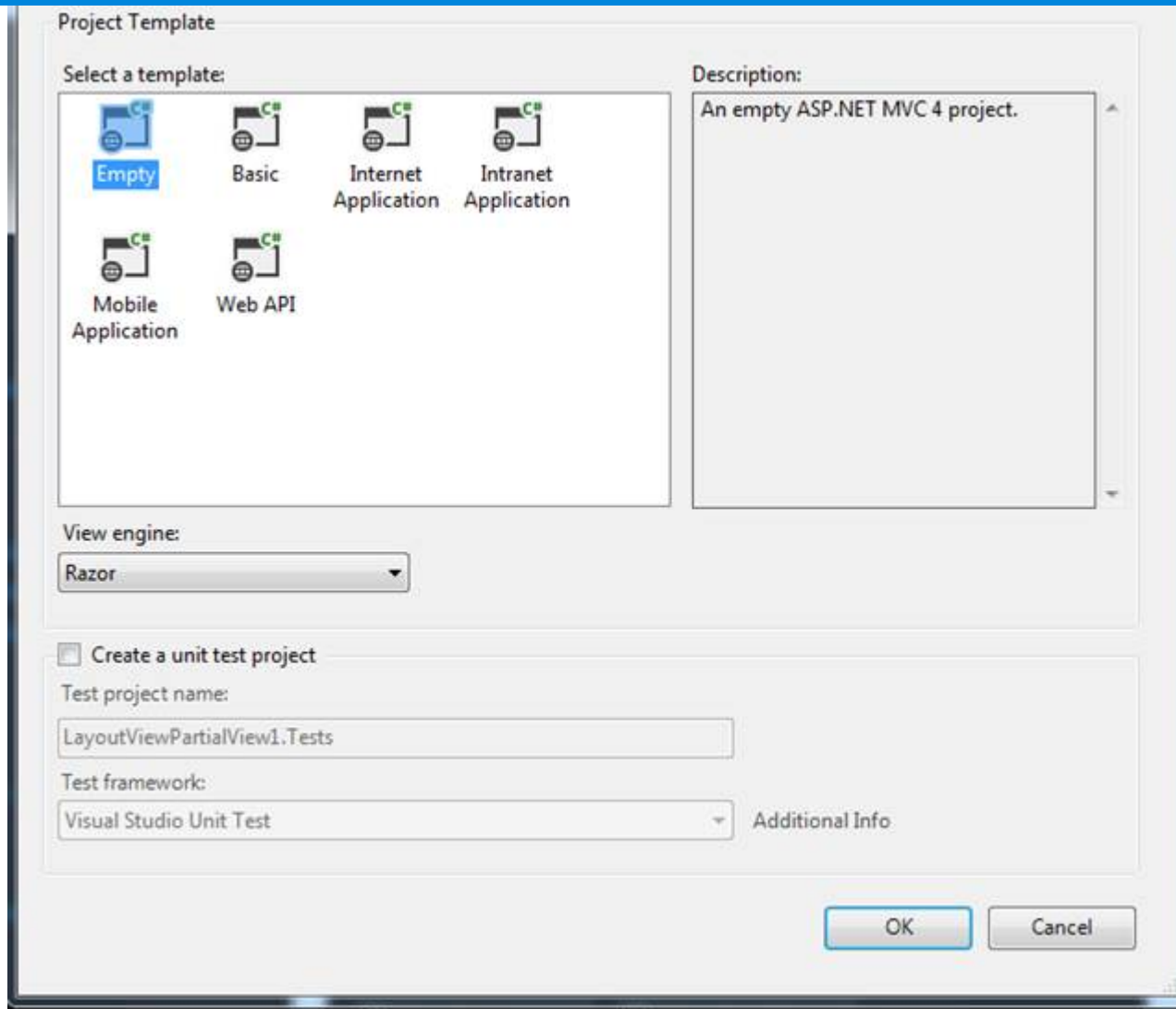- To create a View under Layout view.

Steps to create Layout, View, and Partial View

To learn about views, I created an empty MVC4 project.

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2. Select Empty, as shown below:

Now, we will create the following things:

- Aview under Layout view
- APartial view

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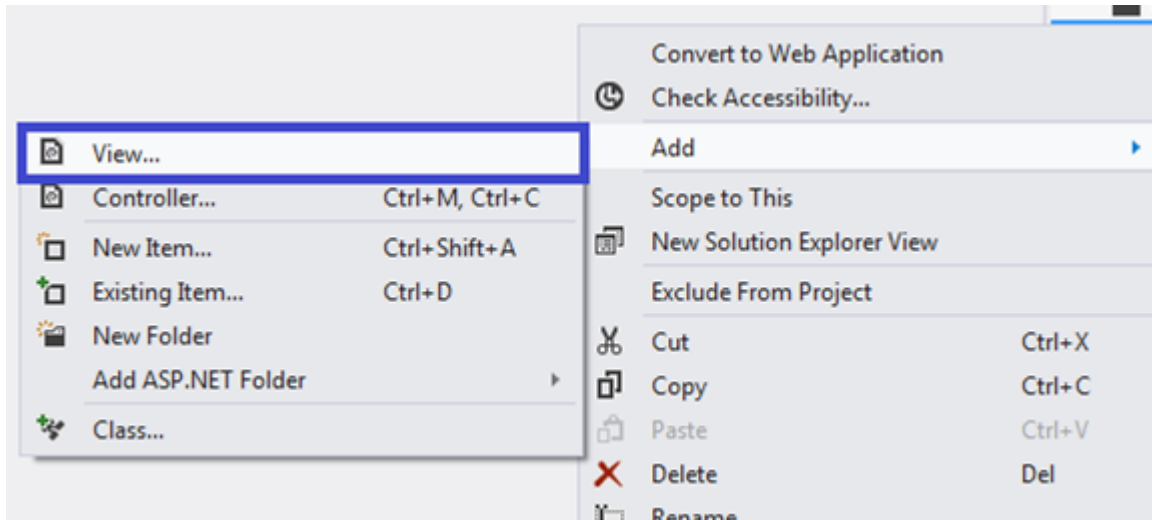
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- Right click on the View Folder.

- Select View

After selecting view, you will get the following screenshot:

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I named this layoutview is : MyLayoutView.

1. You can select CREATE A STRONGLY TYPED VIEW. if you requried.

2. Don't select Craete as a partial view.

3. Use a layout or master page, If you want to create a nested layout view. Otherwise don't select this option also.

After understanding above things Click on ADD button to create a Layout View.

View name:

MyLayoutView

View engine:

Razor (CSHTML)

☐ Create a strongly-typed view

    Model class:

    Scaffold template:

    Empty   ☑ Reference script libraries

☐ Create as a partial view

☐ Use a layout or master page:

    (Leave empty if it is set in a Razor _viewstart file)

    ContentPlaceHolder ID:

    MainContent

        Add   Cancel

Create Layout View contents:

```
01.  @{
02.  Layout = null;
03.  }
04.
05.
06.  <!DOCTYPE html>
07.  <html>
08.      <head>
09.          <meta name="viewport" content="width=device-width" />

12.      <body>
13.          <div></div>
14.      </body>
15.  </html>
```

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```
01.   <!DOCTYPE html>
02.   <html>
03.       <head>
04.           <meta name="viewport" content="width=device-width" />
05.           <title>MyLayoutView</title>
06.       </head>
07.       <body>
08.           <div>
09.   @RenderBody()
10.   </div>
11.       </body>
12.   </html>
```

I removed these lines,

```
01.   @ {
02.       Layout = null;
03.   }
```

I removed it because we do not want nested Layout view.

I put @RenderBody, because VIEW (content pages) will render there.

@RenderBody()

View Example

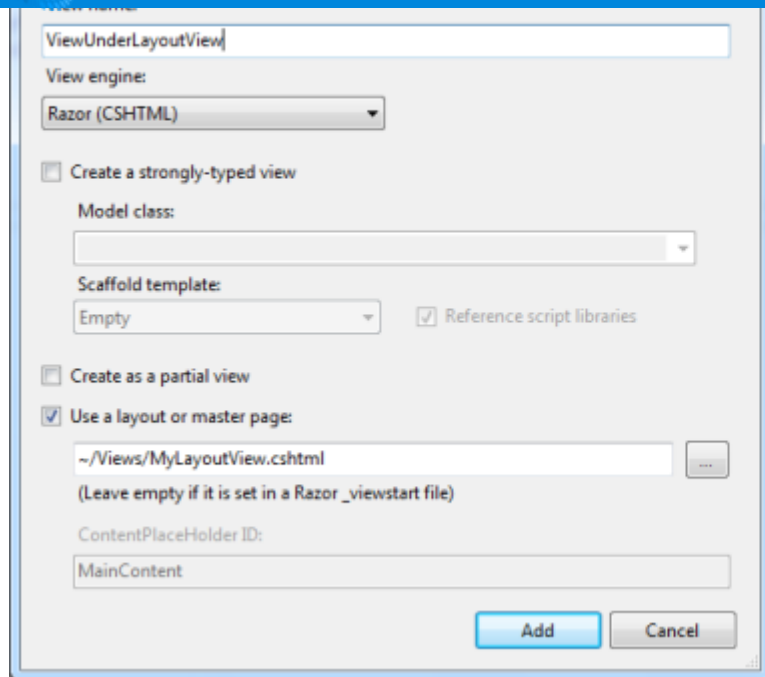Now, we are going to create View, which is under LayoutView.

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By default, LayoutView.cshtml will display as shown below:

```
01.  @{
02.      ViewBag.Title = "ViewUnderLayoutView";
03.      Layout = "~/Views/MyLayoutView.cshtml";
04.  }
05.
06.  <h2>ViewUnderLayoutView</h2>
```

Partial View Example

Now, we are going to create Partial view, which is under Layout View / View
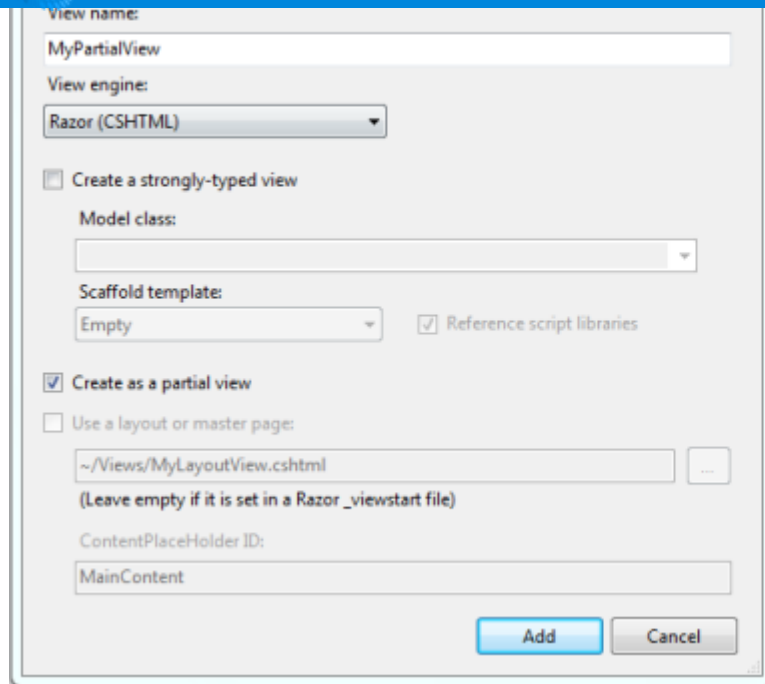
I had given name as MyPartialView.

1. Select / Unselect CREATE A STRONGLY TYPED VIEW as per your requirement.

2. Select a CREATE AS A PARTIAL VIEW for create a partial view this is compulsory.

While you select a Partial View check box , system automatically uncheck or disable to select Layout or Master page.

Click on ADD button to create a Partial View.

There is no predefined text that will come in MyPartialView.cshtml file.

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I am having one question here that is about partial views, It is like web user controls. I can use user controls on different web pages, so can i use same partial views on different view layouts ? if not means why should we called it as user controls ?

Maruthi Palllamalli

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Thank You.. All My Dear Friends

Manoj Kalla

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Nice one..

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