[**Asp.net MVC中的ViewData与ViewBag**](http://www.cnblogs.com/wintersun/archive/2012/01/21/2328563.html)

在Asp.net MVC 3 web应用程序中，我们会用到[ViewData](http://msdn.microsoft.com/en-us/library/system.web.mvc.viewpage.viewdata.aspx)与[ViewBag](http://msdn.microsoft.com/en-us/library/system.web.mvc.controllerbase.viewbag(v=vs.98).aspx)，对比一下：

|  |  |
| --- | --- |
| **ViewData** | **ViewBag** |
| 它是Key/Value字典集合 | 它是[dynamic](http://msdn.microsoft.com/en-us/library/dd264741.aspx)类型对像 |
| 从Asp.net MVC 1 就有了 | ASP.NET MVC3 才有 |
| 基于Asp.net 3.5 framework | 基于Asp.net 4.0与.net framework |
| ViewData比ViewBag快 | ViewBag比ViewData慢 |
| 在ViewPage中查询数据时需要转换合适的类型 | 在ViewPage中查询数据时不需要类型转换 |
| 有一些类型转换代码 | 可读性更好 |

在Controller中使用ViewData:

public ActionResult UsingViewData()

{

ViewData["Title"] = " Using ViewData";

ViewData["ProjectName"] = "My Test Project";

ViewData["ProjectDescription"] = "This is Test Project to demo Viewdata and viewbag details";

ViewData["StartDate"] = new DateTime(2011, 1, 1);

ViewData["TotalPrice"] = 1000;

ViewData["TotalDays"] = 100;

Dictionary<string, string> stackholder = new Dictionary<string, string>();

stackholder.Add("Client","Mr. Client");

stackholder.Add("Manager","Mr. Joy");

stackholder.Add("Team Leader","Mr.Toy");

stackholder.Add("Sr. developer", "Mr.dojoy");

stackholder.Add("developer", "Mr. nodoy");

ViewData["stackholder"] = stackholder;

List<string> modules = new List<string>();

modules.Add("Admin module");

modules.Add("ShoppingCart module");

modules.Add("CMS module");

ViewData["modules"] = modules;

return View();

}

对应UsingViewData View的cshtml:

<h1>@ViewData["Title"]</h1>

<div>

<div>

<h2>Project Name : @ViewData["ProjectName"]</h2>

</div>

<div>

ProjectDescription :

<p>"@ViewData["ProjectDescription"]".</p>

</div>

<div>

Stack Holder :

<br />

<ul id="stakholder">

@foreach ( var stakerholder in ViewData["stackholder"] as Dictionary<string, string> )

{

<li>

@stakerholder.Key &nbsp; : @stakerholder.Value

</li>

}

</ul>

</div>

<div>

Project Details:<br />

<div>

module List :

<ul id="modulelist">

@foreach ( var module in ViewData["modules"] as List<string> )

{

<li>

@module

</li>

}

</ul>

</div>

Project StartDate : @ViewData["StartDate"] <br />

Project TotalPrice: @ViewData["TotalPrice"] <br />

Project TotaDays : @ViewData["TotalDays"]

</div>

</div>

然后是ViewBag:

public ActionResult UsingViewBag()

{

ViewBag.Title = " Using ViewBag";

ViewBag.ProjectName = "My Test Project";

ViewBag.ProjectDescription = "This is Test Project to demo Viewdata and viewbag details";

ViewBag.StartDate = new DateTime(2011, 1, 1);

ViewBag.TotalPrice = 1000;

ViewBag.TotalDays = 100;

Dictionary<string, string> stackholder = new Dictionary<string, string>();

stackholder.Add("Client", "Mr. Client");

stackholder.Add("Manager", "Mr. Joy");

stackholder.Add("Team Leader", "Mr.Toy");

stackholder.Add("Sr. developer", "Mr.dojoy");

stackholder.Add("developer", "Mr. nodoy");

ViewBag.stackholder = stackholder;

List<string> modules = new List<string>();

modules.Add("Admin module");

modules.Add("ShoppingCart module");

modules.Add("CMS module");

ViewBag.modules = modules;

return View();

}

对应View UsingViewBag 的cshtml的ViewBag:

<h1>@ViewBag.Title</h1>

<div>

<div>

<h2>Project Name : @ViewBag.ProjectName</h2>

</div>

<div>

ProjectDescription :

<p>"@ViewBag.ProjectDescription.</p>

</div>

<div>

Stack Holder :

<br />

<ul id="stakholder">

@foreach ( var stakerholder in ViewBag.stackholder )

{

<li>

@stakerholder.Key &nbsp; : @stakerholder.Value

</li>

}

</ul>

</div>

<div>

Project Details:<br />

<div>

module List :

<ul id="modulelist">

@foreach ( var module in ViewBag.modules )

{

<li>

@module

</li>

}

</ul>

</div>

Project StartDate : @ViewBag.StartDate.ToString("dd-MMM-yyyy") <br />

Project TotalPrice: @ViewBag.TotalPrice ₹ <br />

Project TotaDays : @ViewBag.TotalDays

</div>

</div>

后面是在Controller中使用ViewBag:

public ActionResult UsingViewBagInControlAndViewDataInView()

{

ViewBag.Title = " Using ViewBag In Control And ViewData In View";

ViewBag.ProjectName = "My Test Project";

ViewBag.ProjectDescription = "This is Test Project to demo Viewdata and viewbag details";

ViewBag.StartDate = new DateTime(2011, 1, 1);

ViewBag.TotalPrice = 1000;

ViewBag.TotalDays = 100;

Dictionary<string, string> stackholder = new Dictionary<string, string>();

stackholder.Add("Client", "Mr. Client");

stackholder.Add("Manager", "Mr. Joy");

stackholder.Add("Team Leader", "Mr.Toy");

stackholder.Add("Sr. developer", "Mr.dojoy");

stackholder.Add("developer", "Mr. nodoy");

ViewBag.stackholder = stackholder;

List<string> modules = new List<string>();

modules.Add("Admin module");

modules.Add("ShoppingCart module");

modules.Add("CMS module");

ViewBag.modules = modules;

return View();

}

在UsingViewBagInControlAndViewDataInView.cshtml中使用ViewData来取值：

<h1>@ViewData["Title"]</h1>

<div>

<div>

<h2>Project Name : @ViewData["ProjectName"]</h2>

</div>

<div>

ProjectDescription :

<p>"@ViewData["ProjectDescription"]".</p>

</div>

<div>

Stack Holder :

<br />

<ul id="stakholder">

@foreach ( var stakerholder in ViewData["stackholder"] as Dictionary<string, string> )

{

<li>

@stakerholder.Key &nbsp; : @stakerholder.Value

</li>

}

</ul>

</div>

<div>

Project Details:<br />

<div>

module List :

<ul id="modulelist">

@foreach ( var module in ViewData["modules"] as List<string> )

{

<li>

@module

</li>

}

</ul>

</div>

Project StartDate : @ViewData["StartDate"] <br />

Project TotalPrice: @ViewData["TotalPrice"] <br />

Project TotaDays : @ViewData["TotalDays"]

</div>

</div>

反过来是这样的:

public ActionResult UsingViewDataInControlAndViewBagInView()

{

ViewData["Title"] = " Using ViewData In Control And ViewBag In View";

ViewData["ProjectName"] = "My Test Project";

ViewData["ProjectDescription"] = "This is Test Project to demo Viewdata and viewbag details";

ViewData["StartDate"] = new DateTime(2011, 1, 1);

ViewData["TotalPrice"] = 1000;

ViewData["TotalDays"] = 100;

Dictionary<string, string> stackholder = new Dictionary<string, string>();

stackholder.Add("Client", "Mr. Client");

stackholder.Add("Manager", "Mr. Joy");

stackholder.Add("Team Leader", "Mr.Toy");

stackholder.Add("Sr. developer", "Mr.dojoy");

stackholder.Add("developer", "Mr. nodoy");

ViewData["stackholder"] = stackholder;

List<string> modules = new List<string>();

modules.Add("Admin module");

modules.Add("ShoppingCart module");

modules.Add("CMS module");

ViewData["modules"] = modules;

return View();

}

在UsingViewDataInControlAndViewBagInView.cshtml 的View中使用ViewBag来取值:

<h1>@ViewBag.Title</h1>

<div>

<div>

<h2>Project Name : @ViewBag.ProjectName</h2>

</div>

<div>

ProjectDescription :

<p>"@ViewBag.ProjectDescription.</p>

</div>

<div>

Stack Holder :

<br />

<ul id="stakholder">

@foreach ( var stakerholder in ViewBag.stackholder )

{

<li>

@stakerholder.Key &nbsp; : @stakerholder.Value

</li>

}

</ul>

</div>

<div>

Project Details:<br />

<div>

module List :

<ul id="modulelist">

@foreach ( var module in ViewBag.modules )

{

<li>

@module

</li>

}

</ul>

</div>

Project StartDate : @ViewBag.StartDate.ToString("dd-MMM-yyyy") <br />

Project TotalPrice: @ViewBag.TotalPrice ₹ <br />

Project TotaDays : @ViewBag.TotalDays

</div>

</div>

这样对比看上去会比较清楚一些。在源代码中的ViewBag是这样的属性:

public dynamic ViewBag {

get {

if (\_dynamicViewData == null) {

\_dynamicViewData = new DynamicViewDataDictionary(() => ViewData);

}

return \_dynamicViewData;

}

}

ViewData是：

public ViewDataDictionary ViewData {

get {

if (\_viewData == null) {

SetViewData(new ViewDataDictionary());

}

return \_viewData;

}

set {

SetViewData(value);

}

}

具体细节在这儿不深入了，这里只是抛砖引玉。希望对您Asp.net MVC开发有帮助。