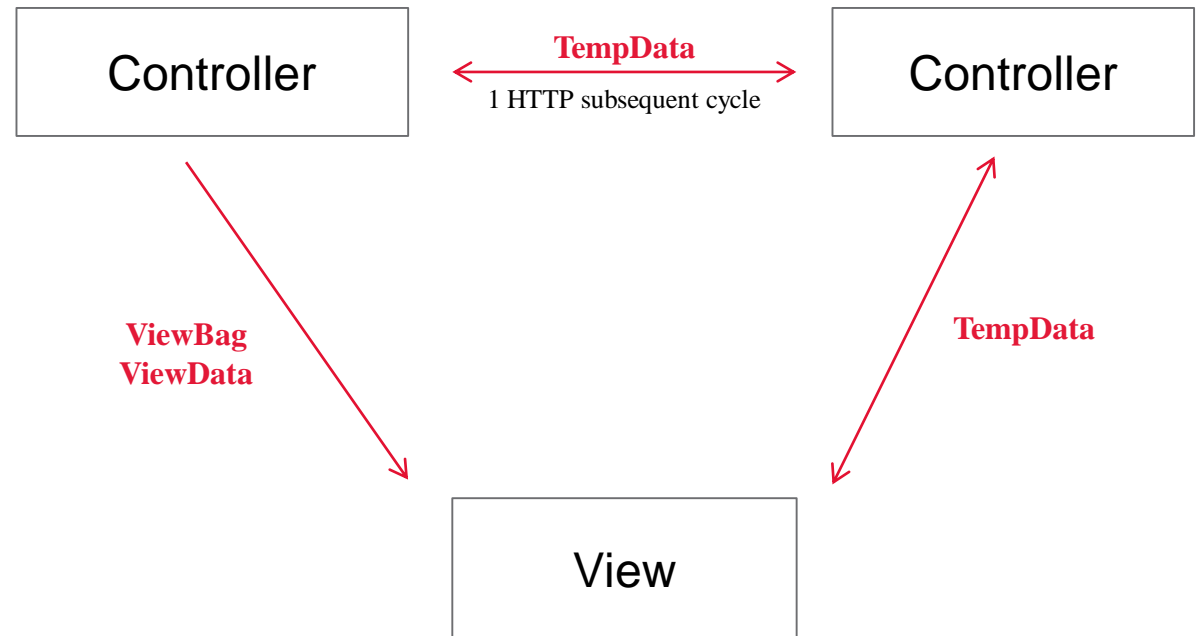


Module - 5

ViewBag, ViewData and TempData

ViewBag and ViewData and TempData

- **ViewBag and ViewData** are used to communicate between controller and corresponding view. But this communication is only for server call, it becomes null if redirect occurs. So, in short, its a mechanism to maintain state between controller and corresponding view.
- **ViewData** is a dictionary object while **ViewBag** is a dynamic property. ViewData being a dictionary object is accessible using strings as keys and also requires typecasting for complex types. On the other hand, ViewBag doesn't have typecasting and null checks.
- **TempData** is also a dictionary object that stays for the time of an HTTP Request. So, TempData can be used to maintain data between redirects i.e. from one controller to the other controller.

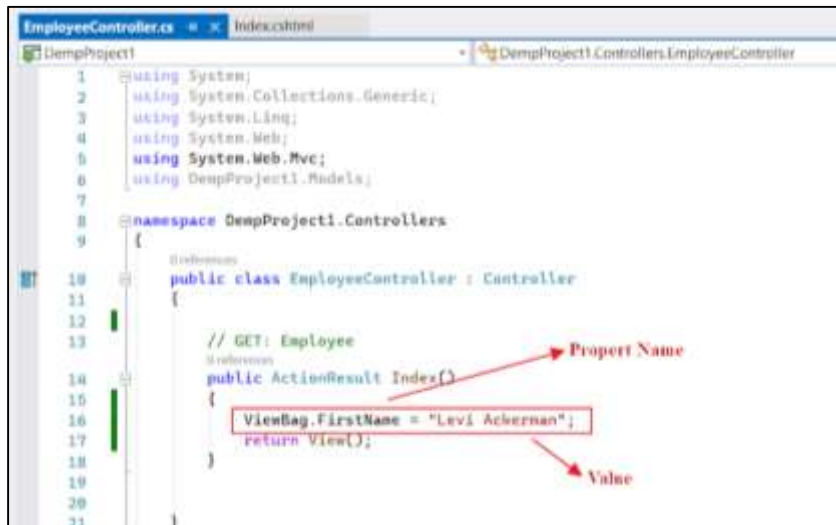


ViewBag

- ViewBag is a dynamic property
- This is used to send data from controller to view
- We can assign any name to the property.

ViewBag.PropertyName = Value;

- We pass data from controller in the form of ViewBag



The screenshot shows the `EmployeeController.cs` file. The `Index` action method is highlighted, showing the assignment of data to `ViewBag`. Red arrows point from the text 'Property Name' to `FirstName` and from 'Value' to `"Levi Ackerman"`.

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Web;
5 using System.Web.Mvc;
6 using DampProject1.Models;
7
8 namespace DampProject1.Controllers
9 {
10     [Authorize]
11     public class EmployeeController : Controller
12     {
13         // GET: Employee
14         public ActionResult Index()
15         {
16             ViewBag.FirstName = "Levi Ackerman";
17             return View();
18         }
19     }
20 }
```

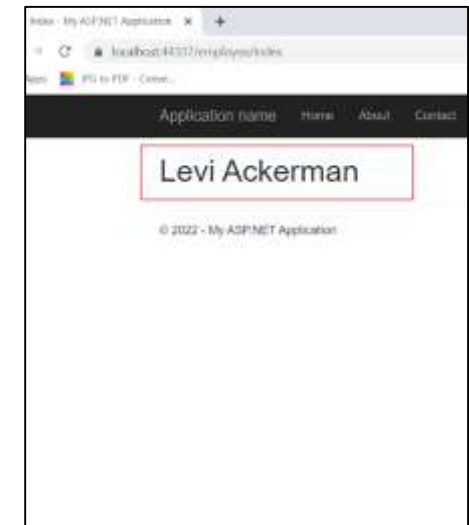
- We get data at view by adding '@' before ViewBag property



The screenshot shows the `Index.cshtml` file. The `@{` block contains the ViewBag assignment. The `<h1>@ViewBag.FirstName</h1>` line is highlighted, with red arrows pointing from the text 'ViewBag Property' to `ViewBag` and from 'C# code' to the `@` symbol.

```
4
5
6
7 @{
8     ViewBag.Title = "Index";
9     Layout = "~/Views/Shared/_Layout.cshtml";
10 }
11
12
13 <h1>@ViewBag.FirstName</h1>
14
15
16
17
18
19
```

- Output



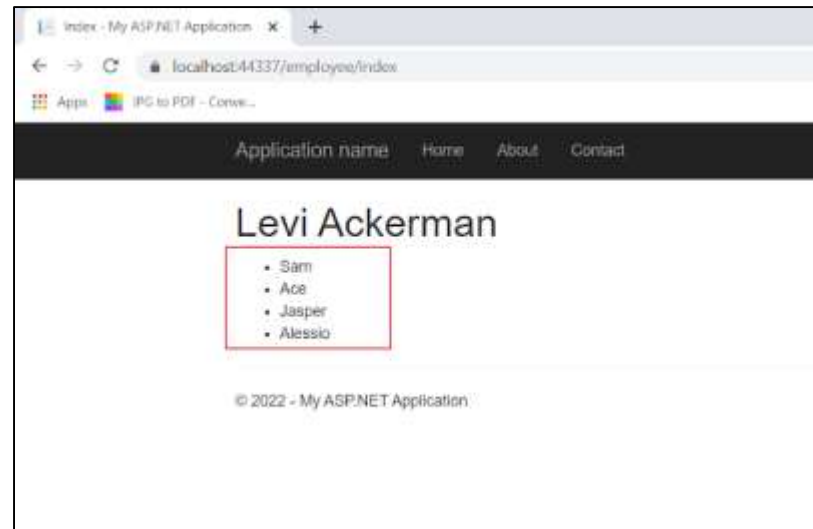
- To add a list using ViewBag –

```
EmployeeController.cs | Index.html |
DempProject1 | DempProject1.Controllers.EmployeeController | Index()
7
8 namespace DempProject1.Controllers
9 {
10
11     public class EmployeeController : Controller
12     {
13
14         // GET: Employee
15         public ActionResult Index()
16         {
17             ViewBag.FirstName = "Levi Ackerman";
18             ViewBag.NewList = new List<string>() { "Sam", "Ace", "Jasper", "Alessio" };
19             return View();
20         }
21     }
22 }
23
24
```

To Create a List

```
EmployeeController.cs | Index.cshtml |
8
9 ViewBag.Title = "Index";
10 Layout = "~/Views/Shared/_Layout.cshtml";
11
12
13 <h1>@ViewBag.FirstName</h1>
14
15
16
17 <div>
18     <ul>
19         @foreach (var item in ViewBag.NewList)
20         {
21             <li>@item</li>
22         }
23     </ul>
24 </div>
25
```

Looping



■ How to get data for model from controller to view? –

1. First creating a model –(Here model name is Employee.cs and controller is EmployeeController.cs)
2. Add model to controller and creating new list for Employee model – (Advantage of using this is that we don't have to pass anything to view as parameter)
3. Add for display data in view.

```
EmployeeController.cs*   Index.cshtml
DempProject1
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Web;
5
6 namespace DempProject1.Models
7 {
8     public class Employee
9     {
10         public int EmpId { get; set; }
11         public string Name { get; set; }
12         public int Age { get; set; }
13     }
14 }
```

Model

```
EmployeeController.cs*   Index.cshtml
DempProject1
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Web;
5 using DempProject1.Models;
6
7 namespace DempProject1.Controllers
8 {
9     public class EmployeeController : Controller
10     {
11         // GET: Employee
12         public ActionResult Index()
13         {
14             ViewBag.Firstname = "Levi Ackerman";
15             ViewBag.NameList = new List<string> { "Sam", "Ace", "Jasper", "Alexsis" };
16             List<Employee> employees = new List<Employee>()
17             {
18                 new Employee() { EmpId = 1001, Name = "Sam Harder", Age=24 },
19                 new Employee() { EmpId = 1002, Name = "Ace Hardwood", Age=29 },
20                 new Employee() { EmpId = 1003, Name = "Jasper Queen", Age=26 },
21                 new Employee() { EmpId = 1004, Name = "Alexsis Ivanstov", Age=30 }
22             };
23             ViewBag.EmpList = employees;
24             return View();
25         }
26     }
27 }
```

Controller

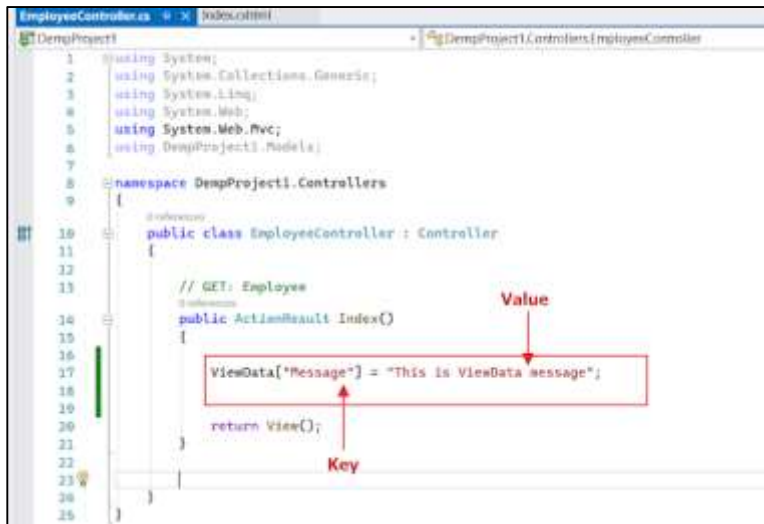
```
EmployeeController.cs*   Index.cshtml
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2
3
4
5
6 ViewBag.Title = "Index";
7 Layout = "~/Views/Shared/_Layout.cshtml";
8
9
10 <h1>@ViewBag.Firstname</h1>
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```

ViewData

- ViewData works as a dictionary
- This is also used to send data from controller to view
- We can assign any name to key

ViewData["myKey"] = Value;

- We pass data from controller in the form of ViewData



```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Web;
5 using System.Web.Mvc;
6 using DemoProject1.Models;
7
8 namespace DemoProject1.Controllers
9 {
10     // GET: Employee
11     public ActionResult Index()
12     {
13         ViewData["Message"] = "This is ViewData message";
14         return View();
15     }
16 }
```

A red box highlights the line `ViewData["Message"] = "This is ViewData message";`. A red arrow labeled "Value" points to the string "This is ViewData message", and another red arrow labeled "Key" points to the string "Message" within the brackets.

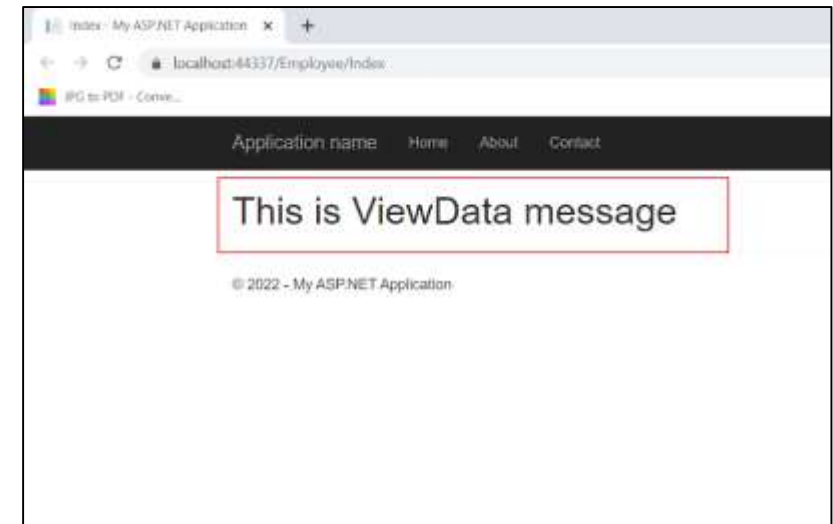
- We get data at view by adding '@' before ViewData and Key



```
34
35
36
37
38
39
40 <h1>@ViewData["Message"]</h1>
41
42
43
44
45
46
47
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54
```

A red box highlights the code `<h1>@ViewData["Message"]</h1>`.

- Output



- To add a list using ViewData –

```

EmployeeController.cs - x | Index.cshtml
DempProject1
DempProject1.Controllers.EmployeeController
Index()
7
8 namespace DempProject1.Controllers
9 {
10     [Authorize]
11     public class EmployeeController : Controller
12     {
13         // GET: Employee
14         [AllowAnonymous]
15         public ActionResult Index()
16         {
17             ViewData["Message"] = "This is ViewData message";
18             ViewData["MyList"] = new List<string> { "Ran", "Ace", "Jasper", "Alessio" };
19             return View();
20         }
21     }
22 }
23
24
25
26
27


```

```

38
39
40 <h1>@ViewData["Message"]</h1>
41
42
43 <div>
44     <ul>
45         @foreach (var item in ViewData["MyList"])
46         {
47             <li>@item</li>
48         }
49     </ul>
50 </div>
51
52
53

```

Note: Whenever we set or save a data to the dictionary it is saved as an object, so if we want to iterate our foreach, we need to tell what it actually is.



Compilation Error

localhost:44337/EmployeeIndex

PDF to PDF - Core...

Server Error in '/' Application.

Error

Compilation Error

Description: An error occurred during the compilation of a resource required to service your request. Please review the following specific error details and modify your source code appropriately.

Compiler Error Message: CS1516: Smooth statement cannot operate on variables of type 'object' because 'object' does not contain a public instance definition for 'GetEnumerator'.

Source Error:

```

Line 43: <div>
Line 44:     <ul>
Line 45:         @foreach (var item in ViewData["MyList"])
Line 46:         {
Line 47:             <li>@Html.Raw(lis)

```

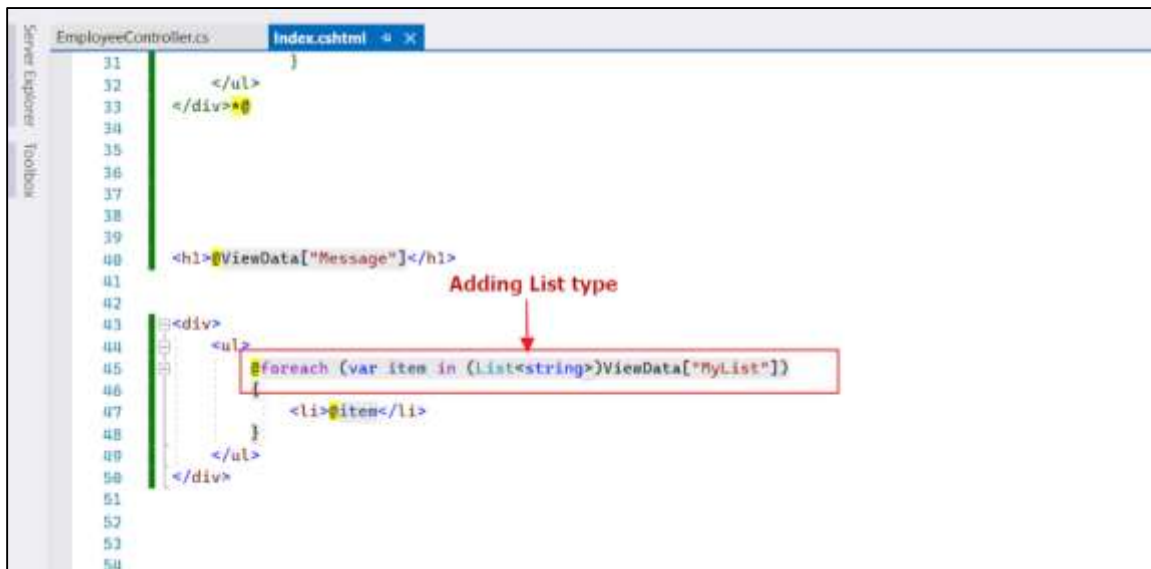
Source File: D:\Users\B\OneDrive\Desktop\MyProject\CompProject\CompProject\Views\EmployeeIndex.cshtml Line: 45

Show Detailed Compiler Output:

Show Complete Compilation Source:

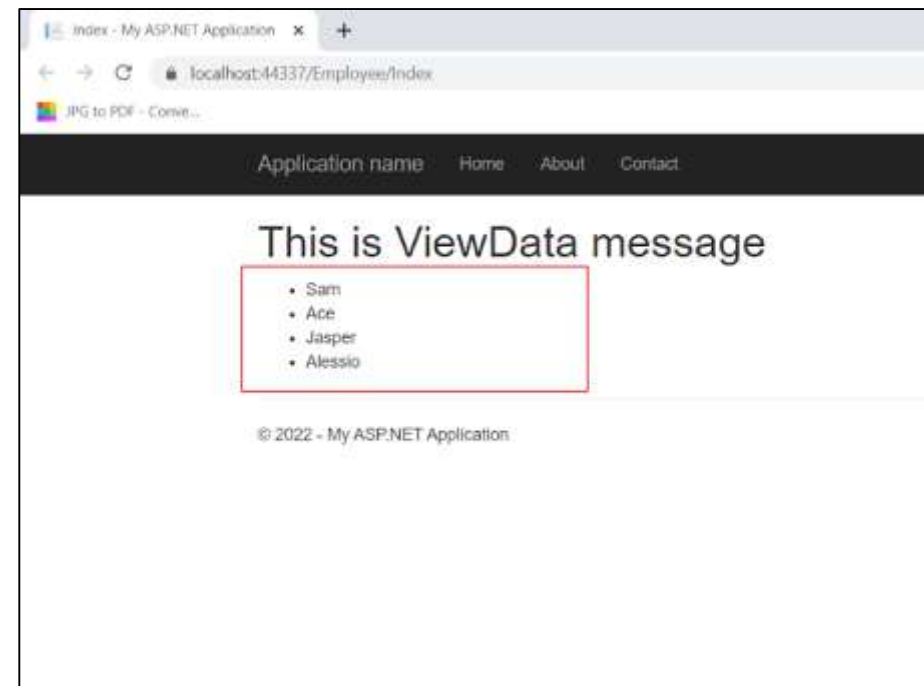
Version Information: Microsoft .NET Framework Version 4.0.30319; ASP.NET Version 4.8.6482.0

- To tell about the list we need to use –



```
31
32     </ul>
33 </div>
34
35
36
37
38
39 <h1>@ViewData["Message"]</h1>
40
41
42
43 <div>
44     <ul>
45         @foreach (var item in (List<string>)ViewData["MyList"])
46         {
47             <li>@item</li>
48         }
49     </ul>
50 </div>
51
52
53
54
```

Adding List type



Advantages of ViewBag and ViewData –

- Easy to use
- Less code
- Do not depend on other classes
- Works very well while passing data from controller to view, etc.

Disadvantages of ViewBag and ViewData –

- No compile time checking
- Key or property name can be misspelled
- Need to cast while using on view
- Cant send data from view to controller

TempData

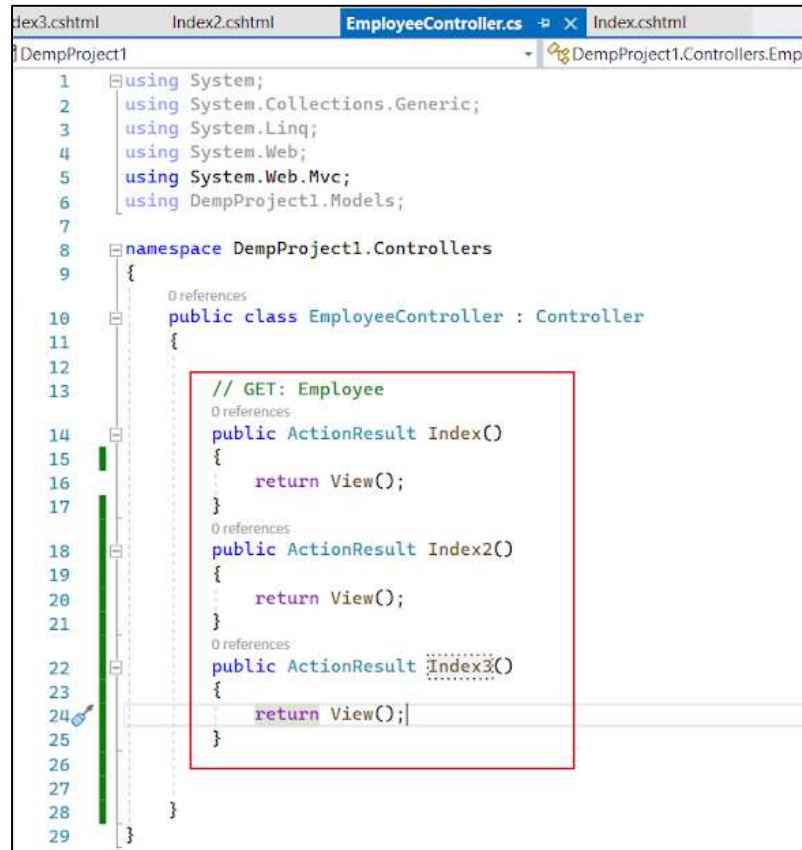
- Sometimes we need to pass data from controller to controller, for that we use TempData.
- TempData is used to store data for next subsequently request only
- Suppose we send a request from browser and the server gives a response then this one cycle is called as one HTTP subsequent cycle
- We can assign any name key
- TempData internally uses session to store data
- TempData can only hold data for one request if we try for second response then the data will be lost.

```
TempData["myKey"] = Value;
```



Diagram: Only one HTTP subsequent cycle representation

- Lets add 3 Action methods to the controller named index, index2, index3



```

1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Web;
5  using System.Web.Mvc;
6  using DempProject1.Models;
7
8  namespace DempProject1.Controllers
9  {
10     public class EmployeeController : Controller
11     {
12         // GET: Employee
13         public ActionResult Index()
14         {
15             return View();
16         }
17         public ActionResult Index2()
18         {
19             return View();
20         }
21         public ActionResult Index3()
22         {
23             return View();
24         }
25     }
26 }

```

- Now adding view to all index, index2, index3



```

1  ViewBag.Title = "Index";
2  Layout = "~/Views/Shared/_Layout.cshtml";
3
4  <h1>This is Index view</h1>


```



```

1  ViewBag.Title = "Index2";
2  Layout = "~/Views/Shared/_Layout.cshtml";
3
4  <h1>This is Index2 View</h1>

```

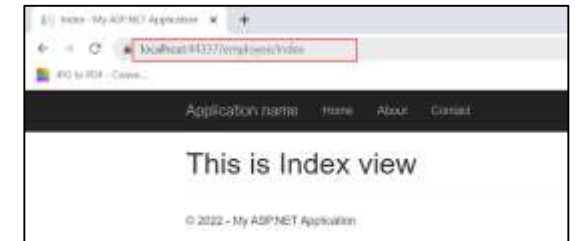


```

1  ViewBag.Title = "Index3";
2  Layout = "~/Views/Shared/_Layout.cshtml";
3
4  <h1>This is Index3 View</h1>

```

- Output –





Note: To get the output of all the action method, change the URL as shown in the figure

- Now let's include a TempData for Index method and then use ViewBag to display TempData in Index2 and Index3

```

7
8 namespace Demoproject1.Controllers
9 {
10     public class EmployeeController : Controller
11     {
12         // GET: Employee
13         public ActionResult Index()
14         {
15             TempData["mykey"] = "Data from Index method";
16             return View();
17         }
18
19         public ActionResult Index2()
20         {
21             ViewBag.MyKey = TempData["mykey"];
22             return View();
23         }
24
25         public ActionResult Index3()
26         {
27             ViewBag.MyKey = TempData["mykey"];
28             return View();
29         }
30     }
31 }

```

```

1
2 @!
3 ViewBag.Title = "Index2";
4 Layout = "~/Views/Shared/_Layout.cshtml";
5
6
7 <h1>This is Index2 View</h1>
8
9 <div>
10     <h1>Value - @ViewBag.MyKey</h1>
11 </div>

```

Index2.cshtml

```

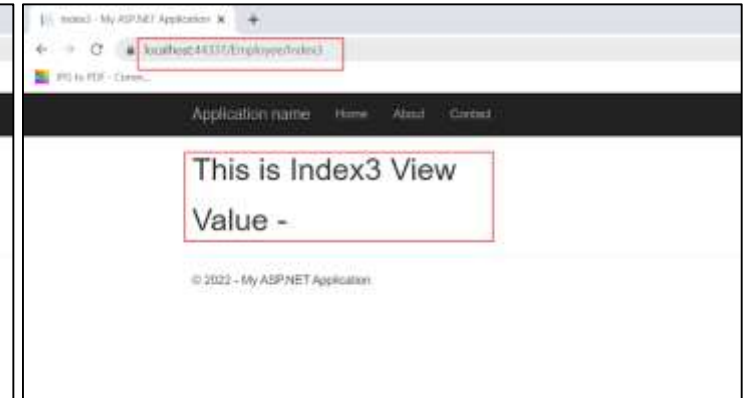
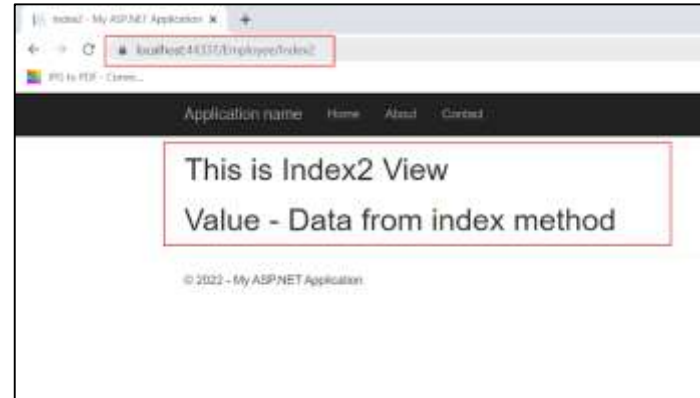
1
2 @!
3 ViewBag.Title = "Index3";
4 Layout = "~/Views/Shared/_Layout.cshtml";
5
6
7 <h1>This is Index3 View</h1>
8
9 <div>
10     <h1>Value - @ViewBag.MyKey</h1>
11 </div>

```

Index3.cshtml

Now if we save and run above changes we will get following output –

- As we can see TempData helped us get data for Index2 action method but was lost when used for Index3 action method.
- Its because TempData is used to store data for next subsequently request only, after that one request's response, the data gets lost.





THANK YOU