

INTCDE21ID008

## STAGE-3

916483 - Naveen S

Day 5 - ASP .Net core

### Hands-On:

**MVC components in Web page rendering, Data binding concepts in .Net core**

**Create a Razor view to list a few Organizations at Hyderabad and highlight the one that has recently build its largest offshore office at India.**

#### HomeController.cs

```
using Microsoft.AspNetCore.Mvc;
```

```
using Microsoft.Extensions.Logging;
```

```
using System;
```

```
using System.Collections.Generic;
```

```
using System.Diagnostics;
```

```
using System.Linq;
```

```
using System.Threading.Tasks;
```

```
using WebApplication6.Models;
```

```
namespace WebApplication6.Controllers
```

```
{
```

```
    public class HomeController : Controller
```

```
    {
```

```
        private readonly ILogger<HomeController> _logger;
```

```

public HomeController(ILogger<HomeController> logger)
{
    _logger = logger;
}

public IActionResult Index()
{
    return View();
}

public IActionResult Privacy()
{
    return View();
}

public IActionResult ITOrganizations()
{
    List<string> organizationList = new List<string>
    {
        "Microsoft www.microsoft.com", "CTS www.cognizant.com", "Google",
"Amazon", "TCS"
    };
    return View(organizationList);
}

```

```
[ResponseCache(Duration = 0, Location = ResponseCacheLocation.None,  
NoStore = true)]
```

```
public IActionResult Error()  
{  
    return View(new ErrorViewModel { RequestId = Activity.Current?.Id ??  
HttpContext.TraceIdentifier });  
}  
}
```

### **ITOrganizations.cshtml**

@\*

For more information on enabling MVC for empty projects, visit  
<https://go.microsoft.com/fwlink/?LinkID=397860>

\*@

@{

}

@model List<string>

@foreach (var organization in Model)

{

<div>

@if (organization.Equals("Amazon"))

{

<span><b>@Html.DisplayFor(o => organization)</b></span>

}

else

```

    {
        <span>@Html.DisplayFor(o => organization)</span>
    }
</div>
}

```

## **\_Layout.cshtml**

@\*

For more information on enabling MVC for empty projects, visit  
<https://go.microsoft.com/fwlink/?LinkID=397860>

\*@

@{

}

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8" />

<meta name="viewport" content="width=device-width, initial-scale=1.0" />

<title>@ViewData["Title"] - OrganizationsAtHyderabad</title>

<link rel="stylesheet" href="~/lib/bootstrap/dist/css/bootstrap.min.css" />

<link rel="stylesheet" href="~/css/site.css" />

</head>

<body>

<header>

<nav class="navbar navbar-expand-sm navbar-toggleable-sm navbar-light bg-white border-bottom box-shadow mb-3">

```
<div class="container">

  <a class="navbar-brand" asp-area="" asp-controller="Home" asp-
action="Index">OrganizationsAtHyderabad</a>

  <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target=".navbar-collapse" aria-controls="navbarSupportedContent"

    aria-expanded="false" aria-label="Toggle navigation">

    <span class="navbar-toggler-icon"></span>

  </button>

  <div class="navbar-collapse collapse d-sm-inline-flex flex-sm-row-reverse">

    <ul class="navbar-nav flex-grow-1">

      <li class="nav-item">

        <a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-
action="Index">Home</a>

      </li>

      <li class="nav-item">

        <a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-
action="Privacy">Privacy</a>

      </li>

      <li class="nav-item">

        <a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-
action="ITOrganizations">ITOrganizations</a>

      </li>

    </ul>

  </div>

</div>

</nav>

</header>
```

```
<div class="container">
  <main role="main" class="pb-3">
    @RenderBody()
  </main>
</div>
```

```
<footer class="border-top footer text-muted">
  <div class="container">
    &copy; 2021 - OrganizationsAtHyderabad - <a asp-area="" asp-
controller="Home" asp-action="Privacy">Privacy</a>
  </div>
</footer>
<script src="~/lib/jquery/dist/jquery.min.js"></script>
<script src="~/lib/bootstrap/dist/js/bootstrap.bundle.min.js"></script>
<script src="~/js/site.js" asp-append-version="true"></script>
  @RenderSection("Scripts", required: false)
</body>
</html>
```

## Output:

WebApplication6 Home Privacy

---

# Welcome

Learn about building Web apps with ASP.NET Core.

WebApplication6 Home Privacy

---

Microsoft [www.microsoft.com](http://www.microsoft.com)

CTS [www.cognizant.com](http://www.cognizant.com)

Google

**Amazon**

TCS

**1. Create a Razor view to list few employee details using Model data binding.**

**Employee.cs**

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;

namespace WebApplication6.Models
{
    public class Employee
    {
        public int Id { get; set; }

        public string Name { get; set; }

        public decimal Salary { get; set; }

        public bool IsPermanent { get; set; }

    }
}
```



HomeController.cs

```
using Microsoft.AspNetCore.Mvc;
using Microsoft.Extensions.Logging;
using System;
using System.Collections.Generic;
using System.Diagnostics;
using System.Linq;
using System.Threading.Tasks;
using WebApplication6.Models;
```

```
namespace WebApplication6.Controllers
```

```
{
    public class HomeController : Controller
    {
        private readonly ILogger<HomeController> _logger;

        public HomeController(ILogger<HomeController> logger)
        {
            _logger = logger;
        }

        public IActionResult Index()
        {
            return View();
        }
    }
}
```

```
}
```

```
public IActionResult Privacy()
```

```
{
```

```
    return View();
```

```
}
```

```
public IActionResult GetEmployeeList()
```

```
{
```

```
    List<Employee> employeeList = new List<Employee>();
```

```
    employeeList.Add(new Employee()
```

```
    {
```

```
        Id = 1,
```

```
        Name = "John",
```

```
        Salary = 10000,
```

```
        IsPermanent = true
```

```
    });
```

```
    employeeList.Add(new Employee()
```

```
    {
```

```
        Id = 2,
```

```
        Name = "Smith",
```

```
        Salary = 5000,
```

```
        IsPermanent = false
```

```
    });
```

```
    employeeList.Add(new Employee()
```

```
    {
```

```

        Id = 3,
        Name = "Mark",
        Salary = 5000,
        IsPermanent = false
    });
    employeeList.Add(new Employee()
    {
        Id = 4,
        Name = "Mary",
        Salary = 5000,
        IsPermanent = false
    });
    return View(employeeList);
}

```

```

[ResponseCache(Duration = 0, Location = ResponseCacheLocation.None,
NoStore = true)]

public IActionResult Error()
{
    return View(new ErrorViewModel { RequestId = Activity.Current?.Id ??
HttpContext.TraceIdentifier });
}

```

```
}  
}
```

## GetEmployeeList.cshtml

```
@*
```

For more information on enabling MVC for empty projects, visit  
<https://go.microsoft.com/fwlink/?LinkID=397860>

```
*@
```

```
@{
```

```
}
```

```
@model List<WebApplication6.Models.Employee>
```

```
@{
```

```
    ViewData["Title"] = "GetEmployeeList";
```

```
    <div class="row">
```

```
        <span class="col-md-4">Name</span>
```

```
        <span class="col-md-4">Salary</span>
```

```
        <span class="col-md-4">IsPermanent</span>
```

```
    </div>
```

```
}
```

```
@foreach (var employee in Model)
```

```
{
```

```
    <div class="row">
```

```

    @if (employee.IsPermanent.Equals(true))
    {

        <span class="col-md-4"><b>@employee.Name</b></span>
        <span class="col-md-4"><b>@employee.Salary</b></span>
        <span class="col-md-4"><b>@employee.IsPermanent</b></span>

    }
    else
    {
        <span class="col-md-4">@employee.Name</span>
        <span class="col-md-4">@employee.Salary</span>
        <span class="col-md-4">@employee.IsPermanent</span>
    }
</div>
}

```

\_Layout.cshtml

@\*

For more information on enabling MVC for empty projects, visit  
<https://go.microsoft.com/fwlink/?LinkID=397860>

\*@

@{

}

<!DOCTYPE html>

```
<html lang="en">
<head>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>@ViewData["Title"] - EmployeeDetails</title>
  <link rel="stylesheet" href="~/lib/bootstrap/dist/css/bootstrap.min.css" />
  <link rel="stylesheet" href="~/css/site.css" />
</head>
<body>
  <header>
    <nav class="navbar navbar-expand-sm navbar-toggleable-sm navbar-light bg-
white border-bottom box-shadow mb-3">
      <div class="container">
        <a class="navbar-brand" asp-area="" asp-controller="Home" asp-
action="Index">EmployeeDetails</a>
        <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target=".navbar-collapse" aria-controls="navbarSupportedContent"
          aria-expanded="false" aria-label="Toggle navigation">
          <span class="navbar-toggler-icon"></span>
        </button>
        <div class="navbar-collapse collapse d-sm-inline-flex flex-sm-row-reverse">
          <ul class="navbar-nav flex-grow-1">
            <li class="nav-item">
              <a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-
action="Index">Home</a>
            </li>
```

```
<li class="nav-item">
    <a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-
action="Privacy">Privacy</a>
</li>
<li class="nav-item">
    <a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-
action="GetEmployeeList">GetEmployeeList</a>
</li>
</ul>
</div>
</div>
</nav>
</header>
<div class="container">
    <main role="main" class="pb-3">
        @RenderBody()
    </main>
</div>

<footer class="border-top footer text-muted">
    <div class="container">
        &copy; 2021 - EmployeeDetails - <a asp-area="" asp-controller="Home" asp-
action="Privacy">Privacy</a>
    </div>
</footer>
<script src="~/lib/jquery/dist/jquery.min.js"></script>
```

```
<script src="~/lib/bootstrap/dist/js/bootstrap.bundle.min.js"></script>
<script src="~/js/site.js" asp-append-version="true"></script>
@RenderSection("Scripts", required: false)
</body>
</html>
```

### Output:

WebApplication6 Home Privacy		
Welcome		
Learn about building Web apps with ASP.NET Core.		
WebApplication6 Home Privacy		
Name	Salary	IsPermanent
John	10000	True
Smith	5000	False
Mark	5000	False
Mary	5000	False



## **2. Demonstrate partial view usage.**

### **Employee.cs**

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;

namespace WebApplication6.Models
{
    public class Employee
    {
        public int Id { get; set; }

        public string Name { get; set; }

        public decimal Salary { get; set; }

        public bool IsPermanent { get; set; }
    }
}
```

```
}
```

```
HomeController.cs
```

```
using Microsoft.AspNetCore.Mvc;
```

```
using Microsoft.Extensions.Logging;
```

```
using System;
```

```
using System.Collections.Generic;
```

```
using System.Diagnostics;
```

```
using System.Linq;
```

```
using System.Threading.Tasks;
```

```
using WebApplication6.Models;
```

```
namespace WebApplication6.Controllers
```

```
{
```

```
    public class HomeController : Controller
```

```
    {
```

```
        private readonly ILogger<HomeController> _logger;
```

```
        public HomeController(ILogger<HomeController> logger)
```

```
        {
```

```
            _logger = logger;
```

```
        }
```

```
        public IActionResult Index()
```

```
        {
```

```
            return View();
```

```
}
```

```
public IActionResult Privacy()
```

```
{
```

```
    return View();
```

```
}
```

```
public IActionResult GetEmployeeList()
```

```
{
```

```
    List<Employee> employeeList = new List<Employee>();
```

```
    employeeList.Add(new Employee()
```

```
    {
```

```
        Id = 1,
```

```
        Name = "John",
```

```
        Salary = 10000,
```

```
        IsPermanent = true
```

```
    });
```

```
    employeeList.Add(new Employee()
```

```
    {
```

```
        Id = 2,
```

```
        Name = "Smith",
```

```
        Salary = 5000,
```

```
        IsPermanent = false
```

```
    });
```

```
    employeeList.Add(new Employee()
```

```
    {
```

```

        Id = 3,
        Name = "Mark",
        Salary = 5000,
        IsPermanent = false
    });
    employeeList.Add(new Employee()
    {
        Id = 4,
        Name = "Mary",
        Salary = 5000,
        IsPermanent = false
    });
    return View(employeeList);
}

```

```

[ResponseCache(Duration = 0, Location = ResponseCacheLocation.None,
NoStore = true)]

public IActionResult Error()
{
    return View(new ErrorViewModel { RequestId = Activity.Current?.Id ??
HttpContext.TraceIdentifier });
}

```

```
}  
}
```

## GetEmployeeList.cshtml

@\*

For more information on enabling MVC for empty projects, visit  
<https://go.microsoft.com/fwlink/?LinkID=397860>

\*@

@{

}

<partial name="partialGetEmployeeList" />

partialGetEmployeeList.cshtml

@\*

For more information on enabling MVC for empty projects, visit  
<https://go.microsoft.com/fwlink/?LinkID=397860>

\*@

@model List<WebApplication6.Models.Employee>

@{

ViewData["Title"] = "GetEmployeeList";

<div class="row">

<span class="col-md-4">Name</span>

<span class="col-md-4">Salary</span>

<span class="col-md-4">IsPermanent</span>

</div>

}

```

@foreach (var employee in Model)
{
    <div class="row">
        @if (employee.IsPermanent.Equals(true))
        {

            <span class="col-md-4"><b>@employee.Name</b></span>
            <span class="col-md-4"><b>@employee.Salary</b></span>
            <span class="col-md-4"><b>@employee.IsPermanent</b></span>

        }
        else
        {
            <span class="col-md-4">@employee.Name</span>
            <span class="col-md-4">@employee.Salary</span>
            <span class="col-md-4">@employee.IsPermanent</span>
        }
    </div>
}

```

### **\_Layout.cshtml**

```

<!DOCTYPE html>
<html lang="en">
<head>

```

```
<meta charset="utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<title>@ViewData["Title"] - EmployeeDetails</title>
<link rel="stylesheet" href="~/lib/bootstrap/dist/css/bootstrap.min.css" />
<link rel="stylesheet" href="~/css/site.css" />
</head>
<body>
  <header>
    <nav class="navbar navbar-expand-sm navbar-toggleable-sm navbar-light bg-
white border-bottom box-shadow mb-3">
      <div class="container">
        <a class="navbar-brand" asp-area="" asp-controller="Home" asp-
action="Index">EmployeeDetails</a>
        <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target=".navbar-collapse" aria-controls="navbarSupportedContent"
          aria-expanded="false" aria-label="Toggle navigation">
          <span class="navbar-toggler-icon"></span>
        </button>
        <div class="navbar-collapse collapse d-sm-inline-flex flex-sm-row-reverse">
          <ul class="navbar-nav flex-grow-1">
            <li class="nav-item">
              <a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-
action="Index">Home</a>
            </li>
            <li class="nav-item">
              <a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-
action="Privacy">Privacy</a>
```

```

        </li>
        <li class="nav-item">
            <a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-
action="GetEmployeeList">GetEmployeeList</a>
        </li>
    </ul>
</div>
</div>
</nav>
</header>
<div class="container">
    <main role="main" class="pb-3">
        @RenderBody()
    </main>
</div>

<footer class="border-top footer text-muted">
    <div class="container">
        &copy; 2021 - EmployeeDetails - <a asp-area="" asp-controller="Home" asp-
action="Privacy">Privacy</a>
    </div>
</footer>
<script src="~/lib/jquery/dist/jquery.min.js"></script>
<script src="~/lib/bootstrap/dist/js/bootstrap.bundle.min.js"></script>
<script src="~/js/site.js" asp-append-version="true"></script>
    @RenderSection("Scripts", required: false)

```



</body>

</html>

## Output:

WebApplication6 [Home](#) [Privacy](#)

---

# Welcome

Learn about building Web apps with [ASP.NET Core](#).

WebApplication6 [Home](#) [Privacy](#)

---

Name	Salary	IsPermanent
<b>John</b>	<b>10000</b>	<b>True</b>
Smith	5000	False
Mark	5000	False
Mary	5000	False