

PRACTICAL 6

Aim: Develop ASP.NET Core MVC project with following functionalities:

- Create “Employee”, “Manager”, and “Clerk” model classes.
- Use “Global using” and demonstrate use of nullable type.

Code:

HomeController.cs : (Controllers / HomeController.cs)

```
using System.Diagnostics;
using Microsoft.AspNetCore.Mvc;
using PRACTICAL6.Models;
namespace PRACTICAL6.Controllers;
public class HomeController : Controller
{
    private readonly ILogger<HomeController> _logger;
    public HomeController(ILogger<HomeController> logger)
    {
        _logger = logger;
    }
    public IActionResult Index()
    {
        var employees = new List<Employee>
        {
            new Employee { Id = 1, Name = "Gustavo Fring", Address = "123 Main St",
                Position = "Employee", DateOfJoining = DateTime.Now, Salary = 50000 },
            new Manager { Id = 2, Name = "Walter White", Department = "HR", Position =
                "Manager", DateOfJoining = DateTime.Now, Salary = 70000, NumberOfTeams = 5 },
            new Clerk { Id = 3, Name = "Jesse Pinkman", DeskLocation = "Building A",
                Position = "Clerk", DateOfJoining = DateTime.Now, IsPartTime = true, Salary = 30000 }
        };
        return View(employees);
    }
    public IActionResult Privacy()
    {
        return View();
    }
    [ResponseCache(Duration = 0, Location = ResponseCacheLocation.None, NoStore =
true)]
    public IActionResult Error()
    {
        return View(new ErrorViewModel { RequestId = Activity.Current?.Id ??
HttpContext.TraceIdentifier });
    }
}
```

```
}  
}
```

GlobalUsings.cs : (Controllers / GlobalUsings.cs)

```
global using System;  
global using System.ComponentModel.DataAnnotations;  
global using System.ComponentModel.DataAnnotations.Schema;
```

Employee.cs : (Models / Employee.cs)

```
namespace PRACTICAL6.Models {  
    public class Employee {  
        public int Id { get; set; }  
        public string Name { get; set; } = string.Empty;  
        public string? Address { get; set; }  
        public string Position { get; set; } = string.Empty;  
        public DateTime? DateOfJoining { get; set; }  
  
        [DataType(DataType.Currency)]  
        public decimal? Salary { get; set; }  
    }  
}
```

Manager.cs : (Models / Manager.cs)

```
namespace PRACTICAL6.Models {  
    public class Manager : Employee {  
        public string Department { get; set; } = string.Empty;  
        public int? NumberOfTeams { get; set; }  
    }  
}
```

Clerk.cs : (Models / Clerk.cs)

```
namespace PRACTICAL6.Models {  
    public class Clerk : Employee {  
        public string? DeskLocation { get; set; }  
        public bool IsPartTime { get; set; }  
    }  
}
```

Index.cshtml : (Views / Home / Index.cshtml)

```
@model IEnumerable<PRACTICAL6.Models.Employee>
```

```
<style>  
    table.table, th, td {  
        border: 0.2px solid lightslategray;
```

```

    }
</style>
<table class="table">
  <thead>
    <tr>
      <th>Id</th>
      <th>Name</th>
      <th>Position</th>
      <th>Salary</th>
      <th>Address</th>
      <th>Department/Desk Location</th>
    </tr>
  </thead>
  <tbody>
    @foreach (var employee in Model)
    {
      <tr>
        <td>@employee.Id</td>
        <td>@employee.Name</td>
        <td>@employee.Position</td>
        <td>@(employee.Salary.HasValue ? employee.Salary.Value.ToString("C") :
"N/A")</td>
        <td>@(employee.Address != null ? employee.Address : "N/A")</td>
        <td>
          @if (employee is PRACTICAL6.Models.Clerk clerk)
          {
            @(clerk.DeskLocation ?? "N/A")
          }
          else if (employee is PRACTICAL6.Models.Manager manager)
          {
            @manager.Department
          }
          else
          {
            <text>N/A</text>
          }
        </td>
      </tr>
    }
  </tbody>
</table>

```

Enrollment No: 202203103510097

Output:

- PRACTICAL6

localhost:5004

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PRACTICAL6

Home

Privacy

Id	Name	Position	Salary	Address	Department/Desk Location
1	Gustavo Fring	Employee	\$50,000.00	123 Main St	N/A
2	Walter White	Manager	\$70,000.00	N/A	HR
3	Jesse Pinkman	Clerk	\$30,000.00	N/A	Building A

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