**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>

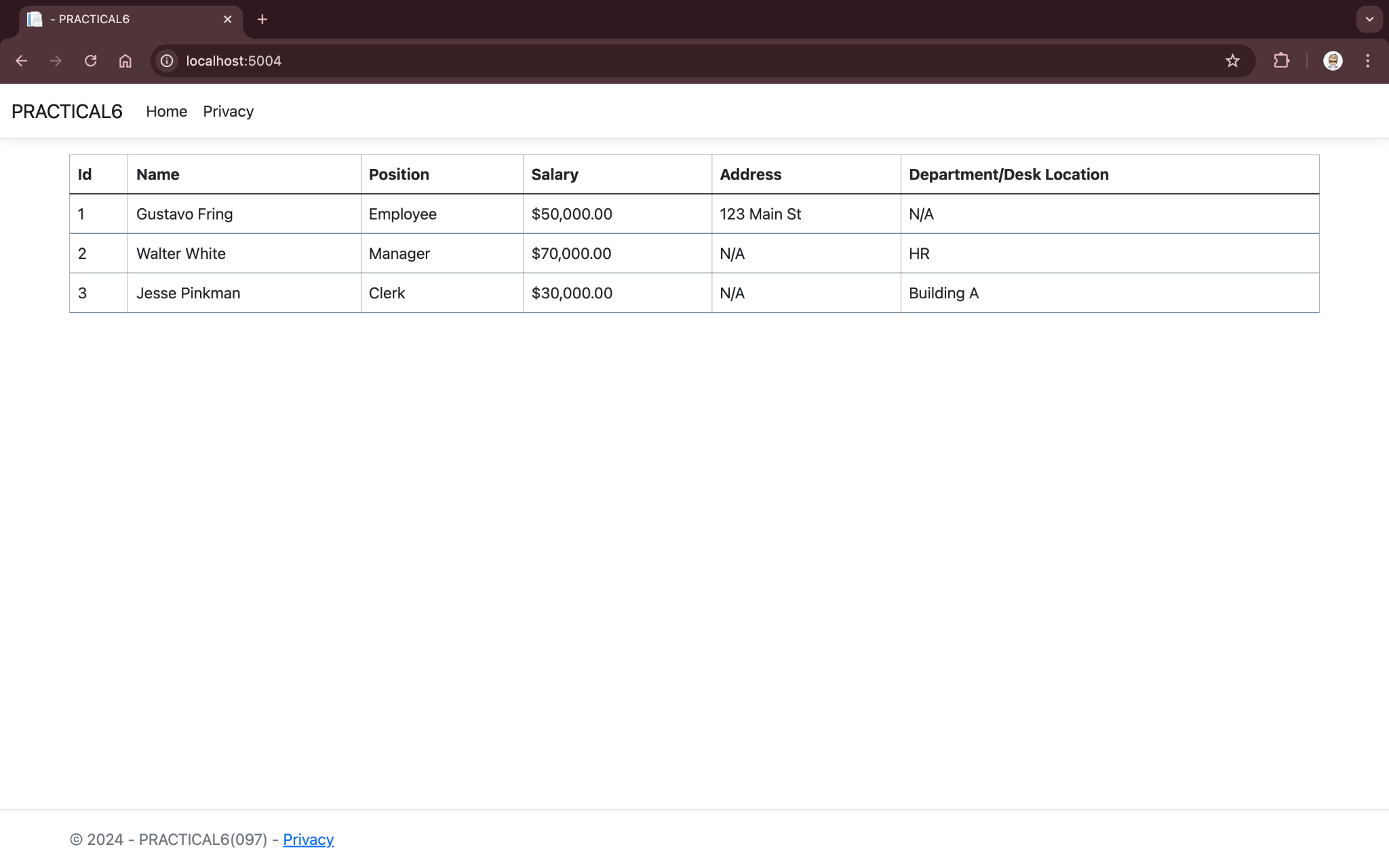
</tr>

}

</tbody>

</table>

**Output:**

****