**PRACTICAL 7**

**Aim: Develop ASP.NET Core MVC application with following functionalities:**

* **Create model class “Employee”**
* **Create extension method**
* **Use extension method**

**Code:**

**HomeController.cs :** (Controllers / HomeController.cs)

using System.Diagnostics;

using Microsoft.AspNetCore.Mvc;

using PRACTICAL7.Models;

using PRACTICAL7.Extensions;

namespace PRACTICAL7.Controllers;

public class HomeController : Controller

{

private readonly ILogger<HomeController> \_logger;

public HomeController(ILogger<HomeController> logger)

{

\_logger = logger;

}

public IActionResult Index()

{

var employee = new Employee(1, "Gustavo Fring", 50000m);

var annualSalary = employee.CalculateAnnualSalary();

ViewBag.AnnualSalary = annualSalary;

return View(employee);

}

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 });

}

}

**Employee.cs :** (Models / Employee.cs)

namespace PRACTICAL7.Models {

public class Employee {

public int Id { get; set; }

public string Name { get; set; } = string.Empty;

public decimal Salary { get; set; }

public Employee(int id, string name, decimal salary) {

Id = id;

Name = name;

Salary = salary;

}

}

}

**EmployeeExtensions.cs :** (Extensions / EmployeeExtensions.cs)

using PRACTICAL7.Models;

namespace PRACTICAL7.Extensions {

public static class EmployeeExtensions {

public static decimal CalculateAnnualSalary(this Employee employee) {

return employee.Salary \* 12;

}

}

}

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

@model PRACTICAL7.Models.Employee

<style>

.table-container {

width: 50%;

margin: 0 auto;

}

table {

width: 100%;

border-collapse: collapse;

background-color: #fff;

border-radius: 10px;

box-shadow: 0 0 15px rgba(0, 0, 0, 0.1);

}

th, td {

border: 1px solid #ddd;

padding: 12px;

text-align: center;

}

th {

background-color: lightgrey;

font-weight: bold;

font-size: 18px;

color: #333

}

tbody tr:nth-child(even) {

background-color: #f2f2f2;

}

td {

font-size: 16px;

color: #555;

}

</style>

<center>

<div class="table-container">

<h2>Employee Details</h2>

<table>

<thead>

<tr>

<th>Property</th>

<th>Value</th>

</tr>

</thead>

<tbody>

<tr>

<td>Id</td>

<td>@Model.Id</td>

</tr>

<tr>

<td>Name</td>

<td>@Model.Name</td>

</tr>

<tr>

<td>Monthly Salary</td>

<td>@Model.Salary.ToString("C")</td>

</tr>

<tr>

<td>Annual Salary</td>

<td>@ViewBag.AnnualSalary.ToString("C")</td>

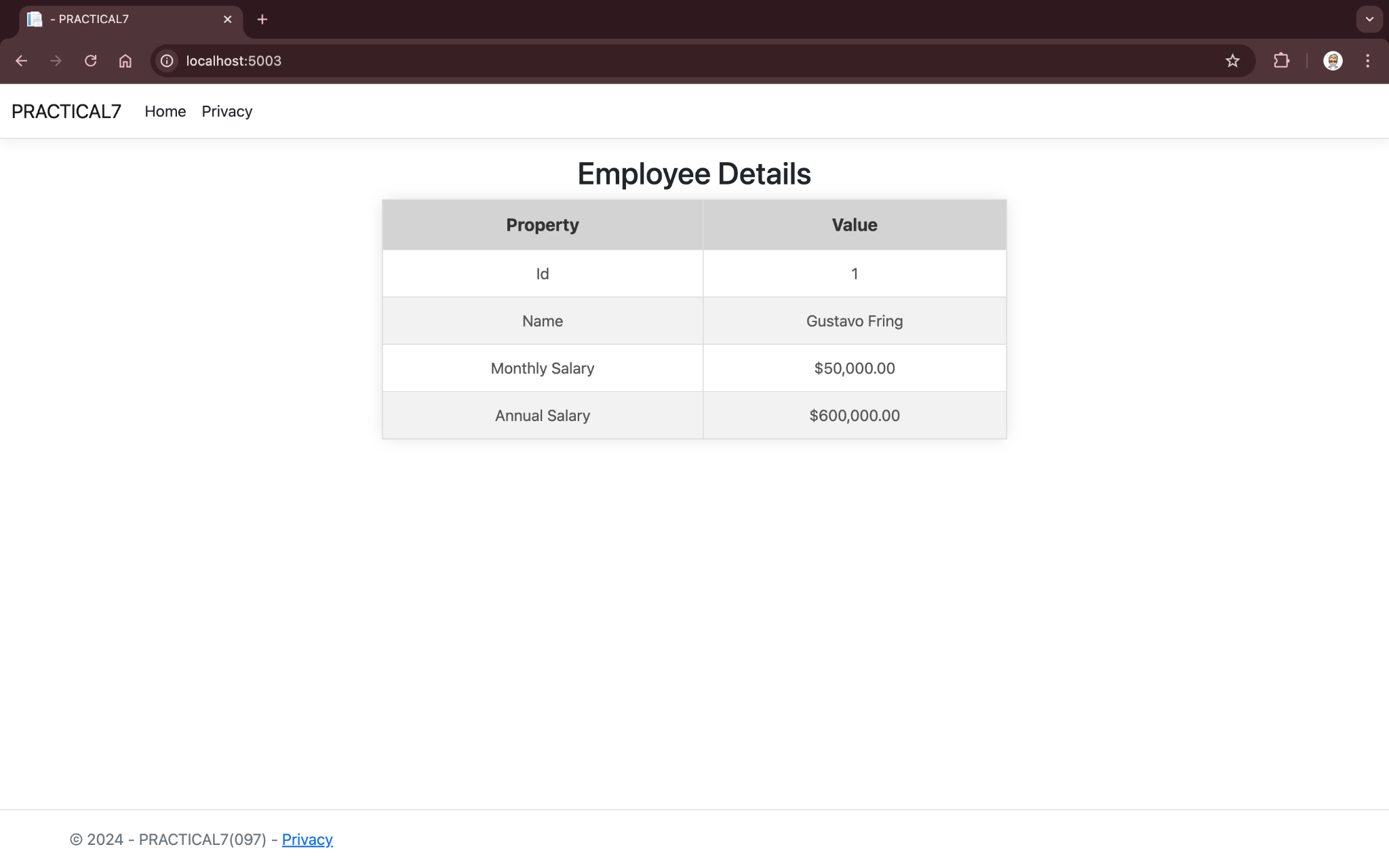
</tr>

</tbody>

</table>

</div></center>

**Output:**

****