

PRACTICAL 5

Aim: Develop ASP.NET Core MVC web application to display information about ten different birds in HTML table. Apply a style to the HTML table using bootstrap.css.

Code:

HomeController.cs : (Controllers / HomeController.cs)

```
using System.Diagnostics;
using Microsoft.AspNetCore.Mvc;
using PRACTICAL5.Models;
namespace PRACTICAL5.Controllers;
public class HomeController : Controller
{
    private readonly ILogger<HomeController> _logger;
    public HomeController(ILogger<HomeController> logger)
    {
        _logger = logger;
    }
    public IActionResult Index()
    {
        var birds = new List<Bird>
        {
            new Bird { Name = "Eagle", ScientificName = "Aquila", Habitat = "Mountains" },
            new Bird { Name = "Sparrow", ScientificName = "Passeridae", Habitat = "Urban
areas" },
            new Bird { Name = "Parrot", ScientificName = "Psittaciformes", Habitat =
"Tropical forests" },
            new Bird { Name = "Penguin", ScientificName = "Spheniscidae", Habitat =
"Antarctica" },
            new Bird { Name = "Owl", ScientificName = "Strigiformes", Habitat = "Forests" },
            new Bird { Name = "Peacock", ScientificName = "Pavo", Habitat = "Rainforests"
        },
            new Bird { Name = "Flamingo", ScientificName = "Phoenicopteridae", Habitat =
"Lakes" },
            new Bird { Name = "Robin", ScientificName = "Erithacus rubecula", Habitat =
"Woodlands" },
            new Bird { Name = "Kingfisher", ScientificName = "Alcedinidae", Habitat =
"Rivers" },
            new Bird { Name = "Hummingbird", ScientificName = "Trochilidae", Habitat =
"Gardens" }
        };
    }
}
```

```
        return View(birds);
    }
    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 });
    }
}
```

Bird.cs : (Models / Bird.cs)

namespace PRACTICAL5.Models

```
{
    public class Bird
    {
        public string Name { get; set; }
        public string ScientificName { get; set; }
        public string Habitat { get; set; }
    }
}
```

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

```
@{
    ViewData["Title"] = "Bird Information";
}
@model IEnumerable<PRACTICAL5.Models.Bird>
<!DOCTYPE html>
<html>
<head>
    <title>Bird Information</title>
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
</head>
<body>
    <div class="container mt-5">
        <h1 class="mb-4">Information About Birds</h1>
        <table class="table table-striped table-bordered">
            <thead class="thead-dark">
```

```
<tr>
  <th>Name</th>
  <th>Scientific Name</th>
  <th>Habitat</th>
</tr>
</thead>
<tbody>
  @foreach (var bird in Model)
  {
    <tr>
      <td>@bird.Name</td>
      <td>@bird.ScientificName</td>
      <td>@bird.Habitat</td>
    </tr>
  }
</tbody>
</table>
</div>
</body>
</html>
```

Output:

