Design a simple web application to display an employee directory. This application will consist of a model, a controller, and a view. The goal is to demonstrate your understanding of the Model-View-Controller (MVC) pattern and the use of ASP.NET Core helpers for rendering data. Take input from user.

Tasks:

- 1) Create an Employee class with properties for EmployeeId, FirstName, LastName, JobTitle, and Email.
- 2) Implement an EmployeeController with an Index action that populates a list of at least three Employee objects and passes them to the view.
- 3) Create a strongly-typed Index.cshtml view that uses a foreach loop to iterate through the employee list and, using helpers, displays each employee's details with appropriate labels

SOLUTION:

Controllers/EmployeeController.cs

```
using Microsoft.AspNetCore.Mvc;
using EmployeeDirectory.Data;
using EmployeeDirectory.Models;
using System.Ling;
namespace EmployeeDirectory.Controllers
  public class EmployeeController: Controller
    private readonly ApplicationDbContext context;
    public EmployeeController(ApplicationDbContext context)
      context = context;
    // Index: show employees (if DB empty, seed a few sample employees)
    public IActionResult Index()
      var employees = context.Employees.ToList();
      if (!employees.Any())
         // sample data
         employees = new List<Employee>
           new Employee { FirstName = "Yatri", LastName = "Dungarani", JobTitle =
   "Software Engineer", Email = "yatri@gmail.com" },
```

```
new Employee { FirstName = "Swara", LastName = "Jariwala", JobTitle = "QA
Analyst", Email = "swara@gmail.com" },
        new Employee { FirstName = "Aesha", LastName = "Kalathiya", JobTitle =
"Product Manager", Email = "aesha@gmail.com" }
     };
     context.Employees.AddRange(employees);
     context.SaveChanges();
   return View(employees);
 // GET: Create form
 [HttpGet]
 public IActionResult Create()
   return View();
 // POST: Receive form and save to DB
 [HttpPost]
 [ValidateAntiForgeryToken]
 public IActionResult Create(Employee employee)
   if (ModelState.IsValid)
     context.Employees.Add(employee);
     _context.SaveChanges();
     return RedirectToAction(nameof(Index));
   return View(employee);
```

Models/Employee.cs

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

namespace EmployeeDirectory.Models
{
    public class Employee
```

```
{
  [Kev]
  [DatabaseGenerated(DatabaseGeneratedOption.Identity)]
  public int EmployeeId { get; set; }
  [Required]
  [StringLength(100)]
  public string FirstName { get; set; } = string.Empty;
  [Required]
  [StringLength(100)]
  public string LastName { get; set; } = string.Empty;
  [StringLength(100)]
  public string JobTitle { get; set; } = string.Empty;
  [Required]
  [EmailAddress]
  [StringLength(256)]
  public string Email { get; set; } = string.Empty;
```

Views/Employee/Create.cshtml

```
@model EmployeeDirectory.Models.Employee

@{
    ViewData["Title"] = "Add Employee";
}

<h2>@ViewData["Title"]</h2>

<form asp-action="Create" method="post">
    <h2>@ViewData["Title"]</h2>

<form asp-action="Create" method="post">
    <h2>@ViewData["Title"]</h2>

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    <h2>@ViewData["Title"]</h2>

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```

```
<div class="form-group">
    <label asp-for="JobTitle"></label>
    <input asp-for="JobTitle" class="form-control" />
    <span asp-validation-for="JobTitle" class="text-danger"></span>
  </div>
  <div class="form-group">
    <label asp-for="Email"></label>
    <input asp-for="Email" class="form-control" />
    <span asp-validation-for="Email" class="text-danger"></span>
  </div>
  <br/>>
  <button type="submit" class="btn btn-primary">Save</button>
  <a asp-action="Index" class="btn btn-secondary">Back to List</a>
</form>
@section Scripts {
  (a)
    await Html.RenderPartialAsync(" ValidationScriptsPartial");
```

Views/Employee/Index.cshtml

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

@{
    ViewData["Title"] = "Employee Directory";
}

<h2>@ViewData["Title"]</h2>

    <a asp-action="Create" class="btn btn-primary">Add Employee</a>

    <thead>

        <dp>

    <dh>@Html.DisplayNameFor(model => model.First().EmployeeId)

    <dh>@Html.DisplayNameFor(model => model.First().FirstName)

        <@Html.DisplayNameFor(model => model.First().LastName)

    <dh>@Html.DisplayNameFor(model => model.First().LastName)
```

```
@Html.DisplayNameFor(model => model.First().JobTitle)
@Html.DisplayNameFor(model => model.First().Email)

model.First().JobTitle)

/th>

ethem.EmployeeId)
/td>

/td>
</pr>

/td>
</pr>

/table>

/table>
```

SCREENSHOTS:





