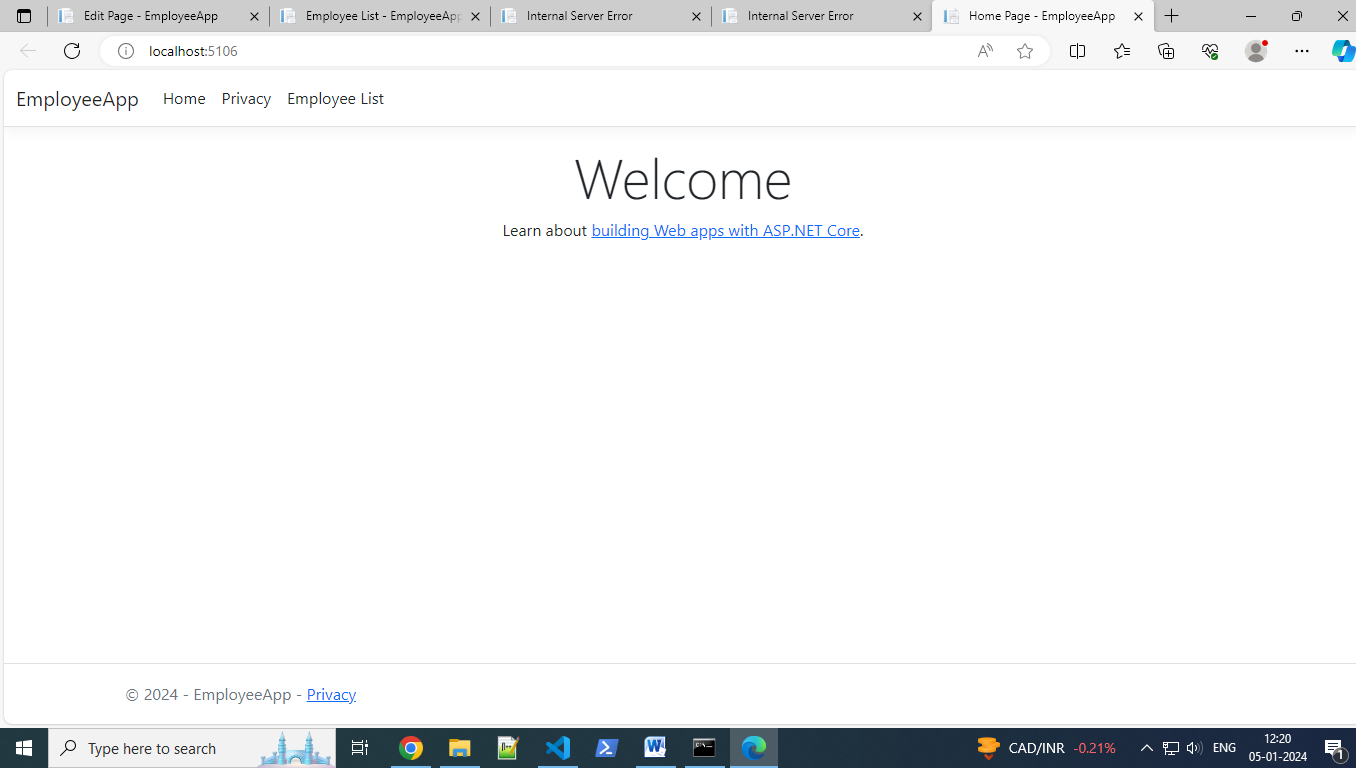
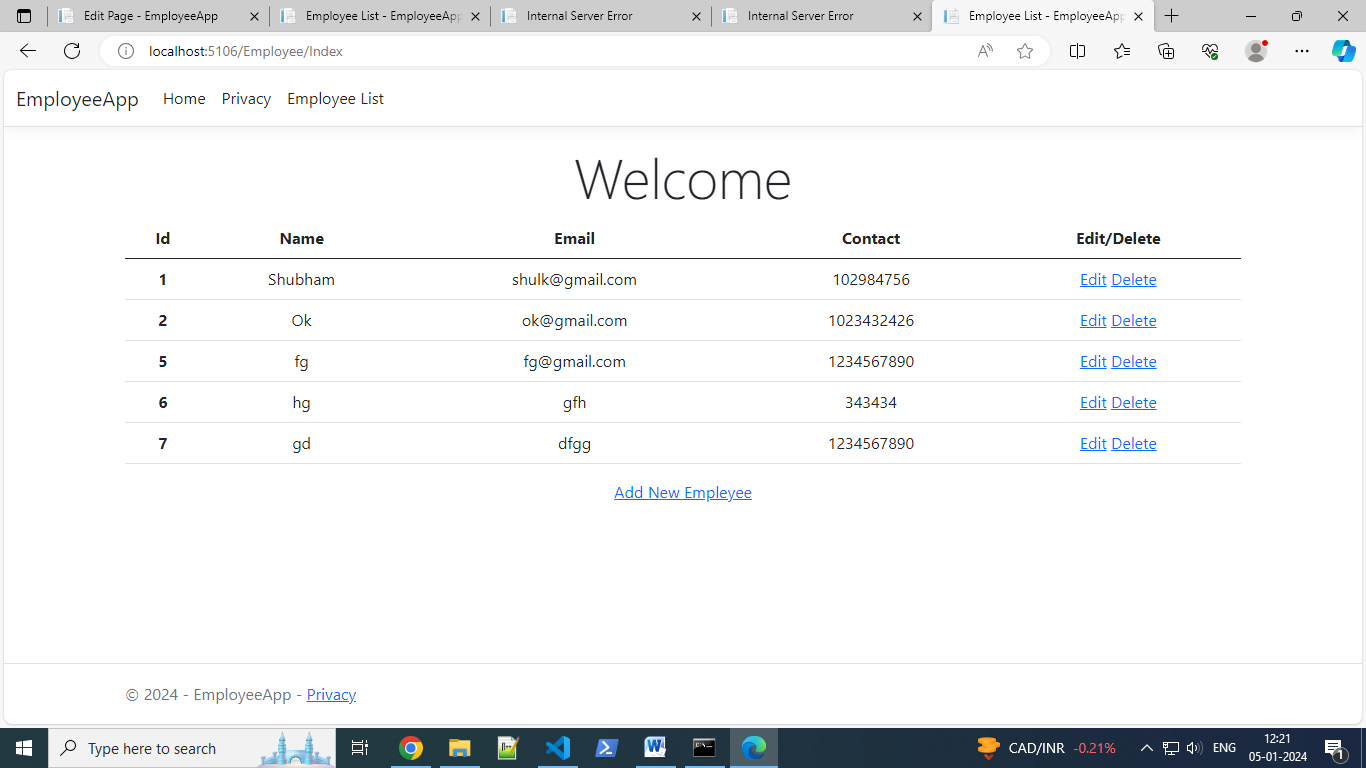
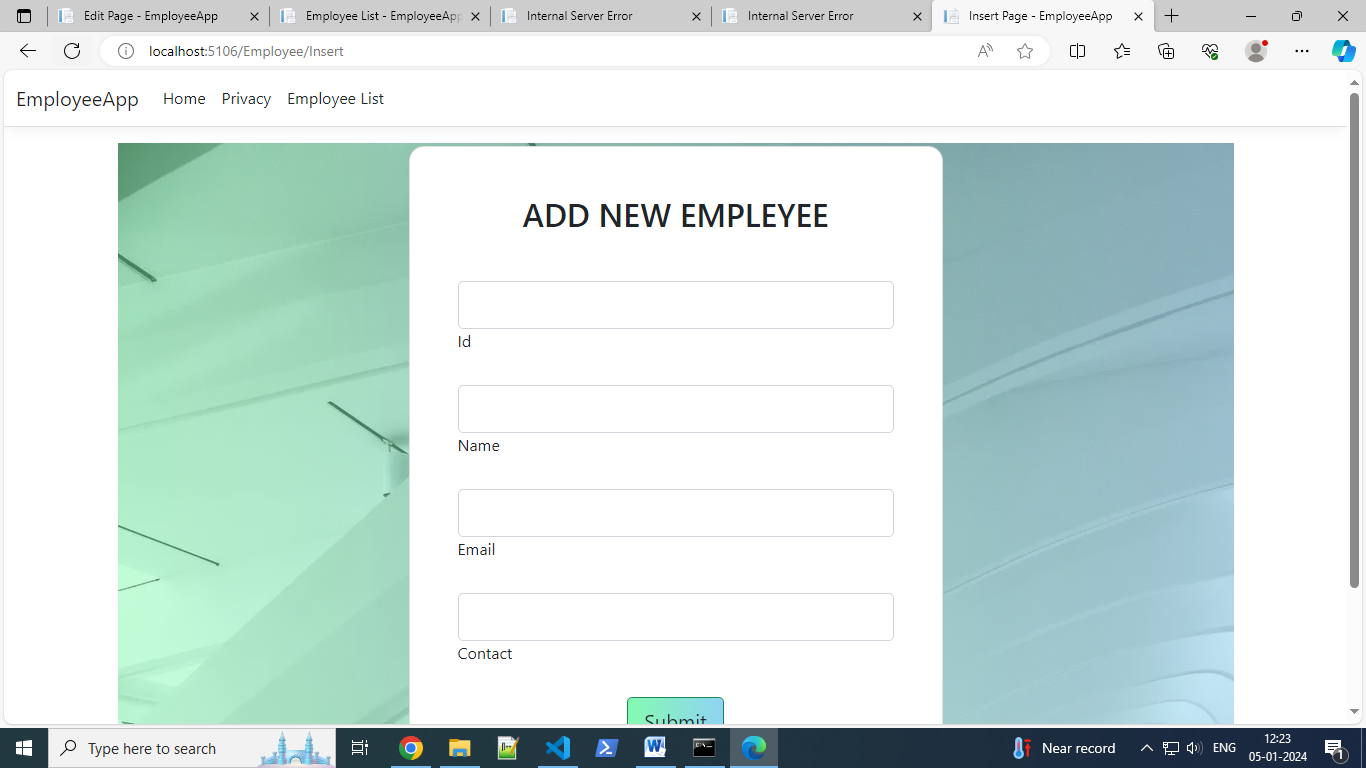
**PRN - 230945920053**

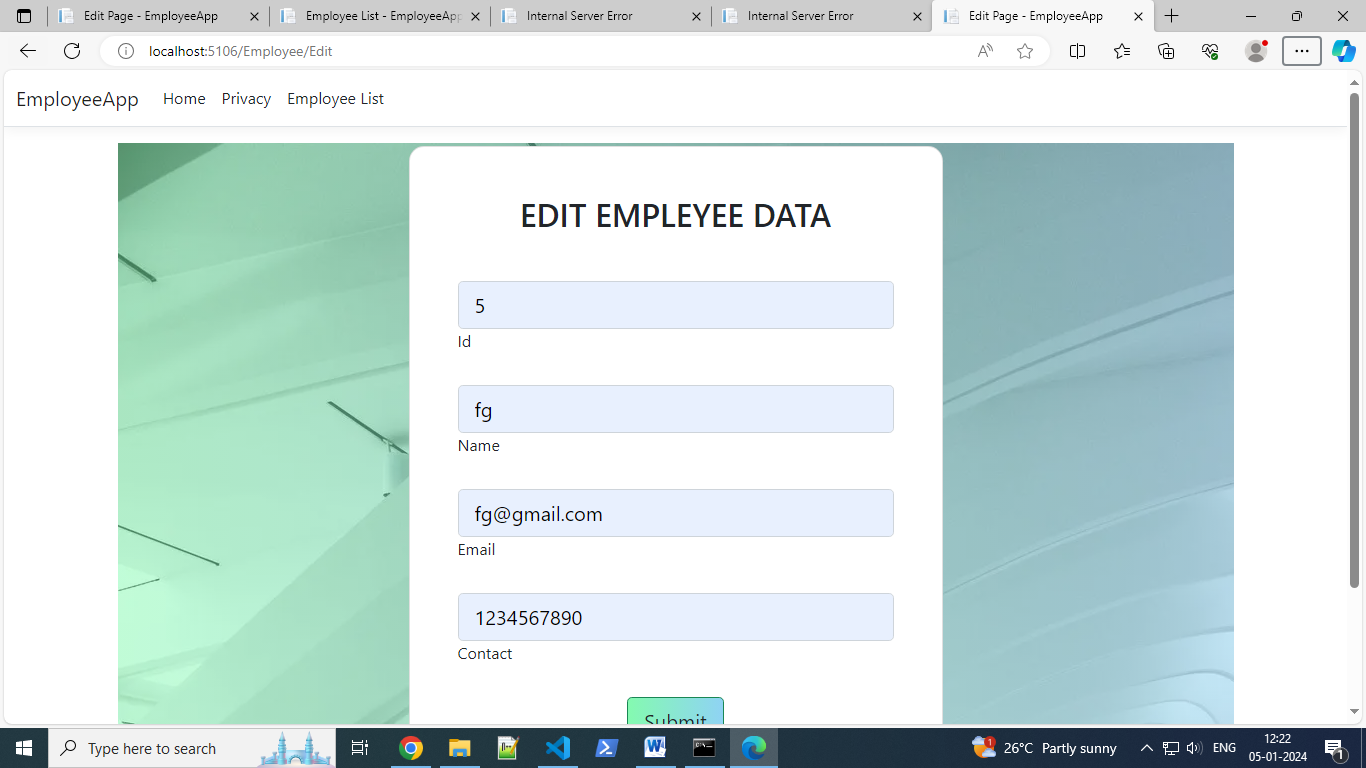
**Problem - MVC Application with HR Management System**

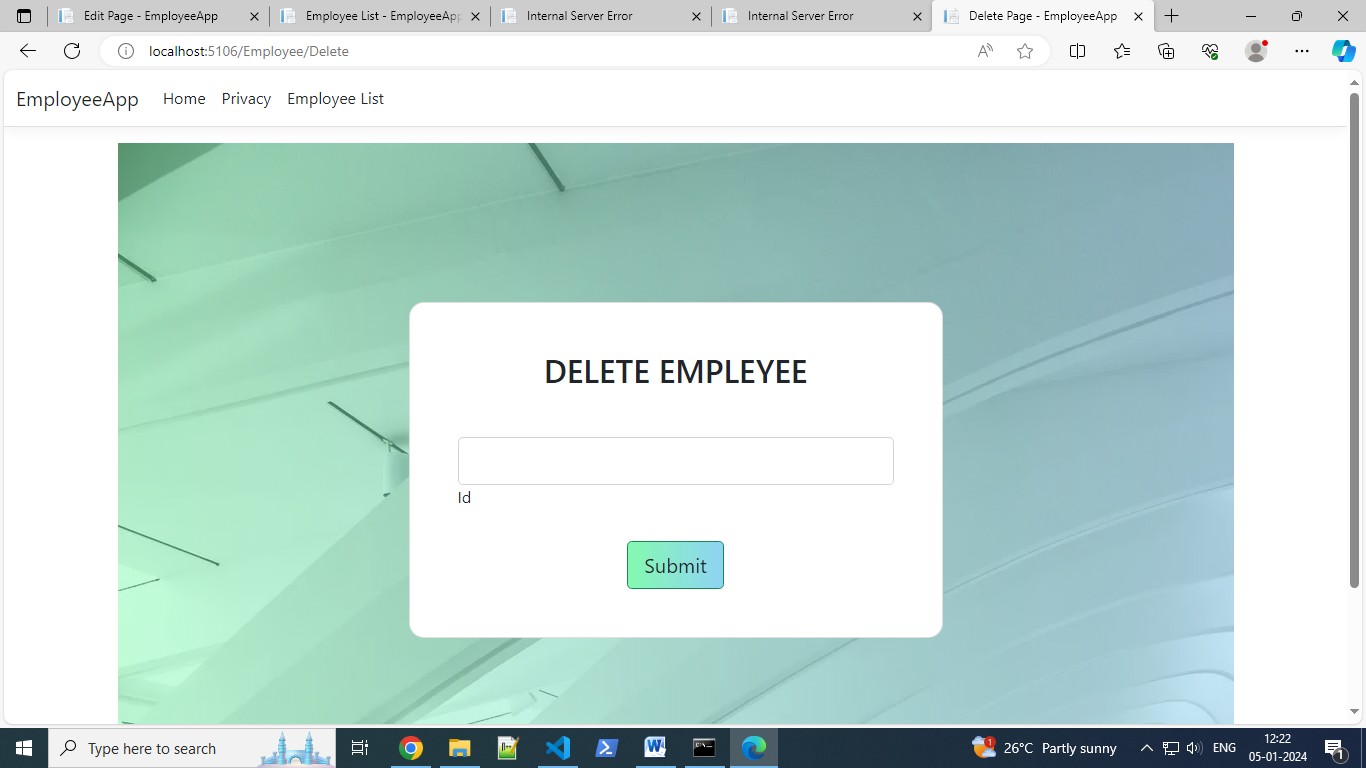
**Output -**



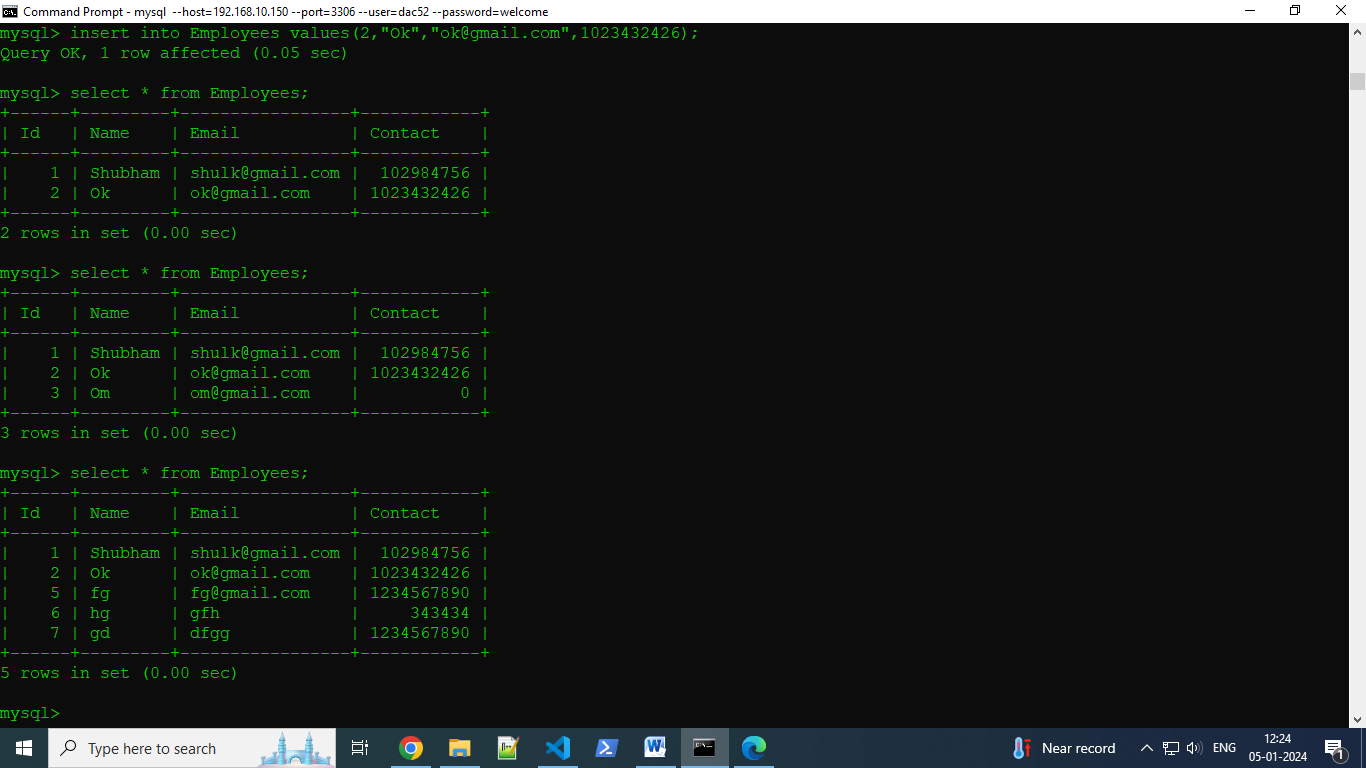








**Database –**



**Code –**

**BOL –**

Employee.cs –

namespace BOL;

public class Employee

{

   public int Id{get;set;}

   public string Name{get;set;}

   public string Email{get;set;}

   public int Contact{get;set;}

   public Employee()

   {

    this.Id = 1;

    this.Name = "Proxy";

    this.Email = "proxy@gmail.com";

    this.Contact = 1234567890;

   }

     public Employee(int id,string name,string email,int contact)

   {

    this.Id = id;

    this.Name = name;

    this.Email = email;

    this.Contact = contact;

   }

}

BLL –

Manager.cs-

namespace BLL;

using BOL;

using DAL;

public class Manager{

    public static List<Employee> GetAll()

    {

        List<Employee> allemp = DBManager.GetAll();

        return allemp;

    }

    public static void Insert(int id1,string name ,string email, int contact)

    {

          DBManager.Insert(id1,name,email,contact);

    }

    public static void Edit(int id1,string name ,string email, int contact)

    {

          DBManager.Edit(id1,name,email,contact);

    }

    public static void Delete(int id1)

    {

          DBManager.Delete(id1);

    }

}

DAL –

DBManage.cs-

namespace DAL;

using MySql.Data.MySqlClient;

using BOL;

using Org.BouncyCastle.Asn1.Cms;

public class DBManager

{

    public static string ConString = @"server=192.168.10.150;port=3306;user=dac52;password=welcome;database=dac52";

      public static List<Employee> GetAll()

      {

         List<Employee> allemp = new List<Employee>();

         MySqlConnection con = new MySqlConnection();

         con.ConnectionString = ConString;

         string query = "Select \* from Employees";

         try{

            MySqlCommand cmd = new MySqlCommand(query,con);

            cmd.Connection = con;

            con.Open();

            cmd.CommandText = query;

            MySqlDataReader reader = cmd.ExecuteReader();

            while(reader.Read())

            {

              int id = int.Parse(reader["Id"].ToString());

              string nm = reader["Name"].ToString();

              string em = reader["Email"].ToString();

              int ct = int.Parse(reader["Contact"].ToString());

              Employee e1 = new Employee(id,nm,em,ct);

              if(e1 !=null)

              {

                 allemp.Add(e1);

              }

            }

         }catch(Exception e)

         {

            Console.WriteLine(e.Message);

         }finally{

            con.Close();

         }

          return allemp;

      }

      public static  void Insert(int id1,string name ,string email, int contact)

      {

         MySqlConnection con = new MySqlConnection();

         con.ConnectionString = ConString;

         string query = "Insert into Employees values(@id,@name,@email,@contact)";

         Console.WriteLine("db",contact);

         try{

            MySqlCommand cmd = new MySqlCommand(query,con);

            cmd.Parameters.AddWithValue("@id",id1);

            cmd.Parameters.AddWithValue("@name",name);

            cmd.Parameters.AddWithValue("@email",email);

            cmd.Parameters.AddWithValue("@contact",contact);

            cmd.Connection = con;

            con.Open();

            cmd.CommandText = query;

            cmd.ExecuteNonQuery();

         }catch(Exception e)

         {

            Console.WriteLine(e.Message);

         }finally{

            con.Close();

         }

      }

    public static void Edit(int id1,string name ,string email, int contact)

    {

         MySqlConnection con = new MySqlConnection();

         con.ConnectionString = ConString;

         string query = "Update Employees set Name=@name,Email=@email,Contact=@contact where Id=@id";

         Console.WriteLine("db",contact);

         try{

            MySqlCommand cmd = new MySqlCommand(query,con);

            cmd.Parameters.AddWithValue("@id",id1);

            cmd.Parameters.AddWithValue("@name",name);

            cmd.Parameters.AddWithValue("@email",email);

            cmd.Parameters.AddWithValue("@contact",contact);

            cmd.Connection = con;

            con.Open();

            cmd.CommandText = query;

            cmd.ExecuteNonQuery();

         }catch(Exception e)

         {

            Console.WriteLine(e.Message);

         }finally{

            con.Close();

         }

    }

     public static void Delete(int id1)

    {

         MySqlConnection con = new MySqlConnection();

         con.ConnectionString = ConString;

         string query = "delete from Employees where id=@Id";

         try{

            MySqlCommand cmd = new MySqlCommand(query,con);

            cmd.Parameters.AddWithValue("@id",id1);

            cmd.Connection = con;

            con.Open();

            cmd.CommandText = query;

            cmd.ExecuteNonQuery();

         }catch(Exception e)

         {

            Console.WriteLine(e.Message);

         }finally{

            con.Close();

         }

    }

}

**Controller-**

**HomeController.cs –**

using System.Diagnostics;

using Microsoft.AspNetCore.Mvc;

using EmployeeApp.Models;

namespace EmployeeApp.Controllers;

public class HomeController : Controller

{

    private readonly ILogger<HomeController> \_logger;

    public HomeController(ILogger<HomeController> logger)

    {

        \_logger = logger;

    }

    public IActionResult Index()

    {

        return View();

    }

    public IActionResult Privacy()

    {

        return View();

    }

    public IActionResult Employee()

    {

        return Redirect("/Employee/Index");

    }

    [ResponseCache(Duration = 0, Location = ResponseCacheLocation.None, NoStore = true)]

    public IActionResult Error()

    {

        return View(new ErrorViewModel { RequestId = Activity.Current?.Id ?? HttpContext.TraceIdentifier });

    }

}

**EmployeeController.cs-**

using System.Diagnostics;

using Microsoft.AspNetCore.Mvc;

using EmployeeApp.Models;

using BLL;

using BOL;

namespace EmployeeApp.Controllers;

public class EmployeeController : Controller

{

    private readonly ILogger<HomeController> \_logger;

    public EmployeeController(ILogger<HomeController> logger)

    {

        \_logger = logger;

    }

    public IActionResult Index()

    {

        List<Employee> allemp = Manager.GetAll();

        ViewData["allemp"] = allemp;

        return View();

    }

     public IActionResult Insert()

    {

        return View();

    }

    [HttpPost]

    public IActionResult Insert(int id1,string name ,string email, int contact)

    {

        Manager.Insert(id1,name,email,contact);

        return Redirect("/Employee/Index");

    }

     public IActionResult Edit()

    {

        return View();

    }

    [HttpPost]

    public IActionResult Edit(int id1,string name ,string email, int contact)

    {

        ViewBag["id"]=id1;

        Manager.Edit(id1,name,email,contact);

        return Redirect("/Employee/Index");

    }

    public IActionResult Delete()

    {

        return View();

    }

    [HttpPost]

    public IActionResult Delete(int id1,string name ,string email, int contact)

    {

        Manager.Delete(id1);

        return Redirect("/Employee/Index");

    }

    public IActionResult Privacy()

    {

        return View();

    }

    public IActionResult Employee()

    {

        return Redirect("/Employee/Index");

    }

    [ResponseCache(Duration = 0, Location = ResponseCacheLocation.None, NoStore = true)]

    public IActionResult Error()

    {

        return View(new ErrorViewModel { RequestId = Activity.Current?.Id ?? HttpContext.TraceIdentifier });

    }

}

**View –**

**Home/Index.cshtml-**

@{

    ViewData["Title"] = "Home Page";

}

<div class="text-center">

    <h1 class="display-4">Welcome</h1>

    <p>Learn about <a href="https://learn.microsoft.com/aspnet/core">building Web apps with ASP.NET Core</a>.</p>

</div>

**Employee/Index.cshtml-**

@using System.Collections.Generic;

@using BOL;

@{

    ViewData["Title"] = "Employee List";

}

<div class="text-center">

    <h1 class="display-4">Welcome</h1>

@\*

      @{

          List<Employee> allemp = ViewData["allemp"] as List<Employee>;

             <table>

                <thead>

                    <tr>

                        <th>Id</th>

                        <th>Name</th>

                        <th>Email</th>

                        <th>Contact</th>

                    </tr>

                </thead>

             @foreach(Employee e1 in allemp)

             {

                    <tr>

                        <th>@e1.Id</th>

                        <th>@e1.Name</th>

                        <th>@e1.Email</th>

                        <th>@e1.Contact</th>

                    </tr>

             }

             </table>

      } \*@

    @{

        List<Employee> allemp = ViewData["allemp"] as List<Employee>;

      <table class="table">

  <thead class="thead-dark">

    <tr>

      <th scope="col">Id</th>

      <th scope="col">Name</th>

      <th scope="col">Email</th>

      <th scope="col">Contact</th>

      <th scope="col">Edit/Delete</th>

    </tr>

  </thead>

  <tbody>

  @foreach(Employee e1 in allemp)

             {

    <tr>

      <th scope="row">@e1.Id</th>

      <td>@e1.Name</td>

      <td>@e1.Email</td>

      <td>@e1.Contact</td>

      <td><a href="/Employee/Edit">Edit</a> <a href="/Employee/Delete">Delete</td>

    </tr>

  }

  </tbody>

</table>

}

     <a href="/Employee/Insert">Add New Empleyee</a>

</div>

**Employee/Insert.cshtml-**

@{

    ViewData["Title"] = "Insert Page";

}

<section class="vh-100 bg-image"

  style="background-image: url('https://mdbcdn.b-cdn.net/img/Photos/new-templates/search-box/img4.webp');">

  <style>

     .gradient-custom-3 {

/\* fallback for old browsers \*/

background: #84fab0;

/\* Chrome 10-25, Safari 5.1-6 \*/

background: -webkit-linear-gradient(to right, rgba(132, 250, 176, 0.5), rgba(143, 211, 244, 0.5));

/\* W3C, IE 10+/ Edge, Firefox 16+, Chrome 26+, Opera 12+, Safari 7+ \*/

background: linear-gradient(to right, rgba(132, 250, 176, 0.5), rgba(143, 211, 244, 0.5))

}

.gradient-custom-4 {

/\* fallback for old browsers \*/

background: #84fab0;

/\* Chrome 10-25, Safari 5.1-6 \*/

background: -webkit-linear-gradient(to right, rgba(132, 250, 176, 1), rgba(143, 211, 244, 1));

/\* W3C, IE 10+/ Edge, Firefox 16+, Chrome 26+, Opera 12+, Safari 7+ \*/

background: linear-gradient(to right, rgba(132, 250, 176, 1), rgba(143, 211, 244, 1))

}

  </style>

  <div class="mask d-flex align-items-center h-100 gradient-custom-3">

    <div class="container h-100">

      <div class="row d-flex justify-content-center align-items-center h-100">

        <div class="col-12 col-md-9 col-lg-7 col-xl-6">

          <div class="card" style="border-radius: 15px;">

            <div class="card-body p-5">

              <h2 class="text-uppercase text-center mb-5">Add New Empleyee</h2>

              <form method="post">

                <div class="form-outline mb-4">

                  <input type="text" id="form3Example1cg" class="form-control form-control-lg" name="id1" />

                  <label class="form-label" for="form3Example1cg">Id</label>

                </div>

                <div class="form-outline mb-4">

                  <input type="text" id="form3Example3cg" class="form-control form-control-lg" name="name"/>

                  <label class="form-label" for="form3Example3cg">Name</label>

                </div>

                <div class="form-outline mb-4">

                  <input type="text" id="form3Example4cg" class="form-control form-control-lg" name="email" />

                  <label class="form-label" for="form3Example4cg">Email</label>

                </div>

                <div class="form-outline mb-4">

                  <input type="text" id="form3Example4cdg" class="form-control form-control-lg" name="contact"/>

                  <label class="form-label" for="form3Example4cdg">Contact</label>

                </div>

                <div class="d-flex justify-content-center">

                  <button type="submit"

                    class="btn btn-success btn-block btn-lg gradient-custom-4 text-body">Submit</button>

                </div>

              </form>

            </div>

          </div>

        </div>

      </div>

    </div>

  </div>

</section>

**Employee/Edit.cshtml-**

@{

    ViewData["Title"] = "Edit Page";

}

<section class="vh-100 bg-image"

  style="background-image: url('https://mdbcdn.b-cdn.net/img/Photos/new-templates/search-box/img4.webp');">

  <style>

     .gradient-custom-3 {

/\* fallback for old browsers \*/

background: #84fab0;

/\* Chrome 10-25, Safari 5.1-6 \*/

background: -webkit-linear-gradient(to right, rgba(132, 250, 176, 0.5), rgba(143, 211, 244, 0.5));

/\* W3C, IE 10+/ Edge, Firefox 16+, Chrome 26+, Opera 12+, Safari 7+ \*/

background: linear-gradient(to right, rgba(132, 250, 176, 0.5), rgba(143, 211, 244, 0.5))

}

.gradient-custom-4 {

/\* fallback for old browsers \*/

background: #84fab0;

/\* Chrome 10-25, Safari 5.1-6 \*/

background: -webkit-linear-gradient(to right, rgba(132, 250, 176, 1), rgba(143, 211, 244, 1));

/\* W3C, IE 10+/ Edge, Firefox 16+, Chrome 26+, Opera 12+, Safari 7+ \*/

background: linear-gradient(to right, rgba(132, 250, 176, 1), rgba(143, 211, 244, 1))

}

  </style>

  <div class="mask d-flex align-items-center h-100 gradient-custom-3">

    <div class="container h-100">

      <div class="row d-flex justify-content-center align-items-center h-100">

        <div class="col-12 col-md-9 col-lg-7 col-xl-6">

          <div class="card" style="border-radius: 15px;">

            <div class="card-body p-5">

              <h2 class="text-uppercase text-center mb-5">Edit Empleyee Data</h2>

              <form method="post">

                <div class="form-outline mb-4">

                  <input type="text" id="form3Example1cg" class="form-control form-control-lg" name="id1" />

                  <label class="form-label" for="form3Example1cg">Id</label>

                </div>

                <div class="form-outline mb-4">

                  <input type="text" id="form3Example3cg" class="form-control form-control-lg" name="name"/>

                  <label class="form-label" for="form3Example3cg">Name</label>

                </div>

                <div class="form-outline mb-4">

                  <input type="text" id="form3Example4cg" class="form-control form-control-lg" name="email" />

                  <label class="form-label" for="form3Example4cg">Email</label>

                </div>

                <div class="form-outline mb-4">

                  <input type="text" id="form3Example4cdg" class="form-control form-control-lg" name="contact"/>

                  <label class="form-label" for="form3Example4cdg">Contact</label>

                </div>

                <div class="d-flex justify-content-center">

                  <button type="submit"

                    class="btn btn-success btn-block btn-lg gradient-custom-4 text-body">Submit</button>

                </div>

              </form>

            </div>

          </div>

        </div>

      </div>

    </div>

  </div>

</section>

**Employee/Delete.cshtml-**

@{

    ViewData["Title"] = "Delete Page";

}

<section class="vh-100 bg-image"

  style="background-image: url('https://mdbcdn.b-cdn.net/img/Photos/new-templates/search-box/img4.webp');">

  <style>

     .gradient-custom-3 {

/\* fallback for old browsers \*/

background: #84fab0;

/\* Chrome 10-25, Safari 5.1-6 \*/

background: -webkit-linear-gradient(to right, rgba(132, 250, 176, 0.5), rgba(143, 211, 244, 0.5));

/\* W3C, IE 10+/ Edge, Firefox 16+, Chrome 26+, Opera 12+, Safari 7+ \*/

background: linear-gradient(to right, rgba(132, 250, 176, 0.5), rgba(143, 211, 244, 0.5))

}

.gradient-custom-4 {

/\* fallback for old browsers \*/

background: #84fab0;

/\* Chrome 10-25, Safari 5.1-6 \*/

background: -webkit-linear-gradient(to right, rgba(132, 250, 176, 1), rgba(143, 211, 244, 1));

/\* W3C, IE 10+/ Edge, Firefox 16+, Chrome 26+, Opera 12+, Safari 7+ \*/

background: linear-gradient(to right, rgba(132, 250, 176, 1), rgba(143, 211, 244, 1))

}

  </style>

  <div class="mask d-flex align-items-center h-100 gradient-custom-3">

    <div class="container h-100">

      <div class="row d-flex justify-content-center align-items-center h-100">

        <div class="col-12 col-md-9 col-lg-7 col-xl-6">

          <div class="card" style="border-radius: 15px;">

            <div class="card-body p-5">

              <h2 class="text-uppercase text-center mb-5">Delete Empleyee</h2>

              <form method="post">

                <div class="form-outline mb-4">

                  <input type="text" id="form3Example1cg" class="form-control form-control-lg" name="id1"/>

                  <label class="form-label" for="form3Example1cg">Id</label>

                </div>

                <div class="d-flex justify-content-center">

                  <button type="submit"

                    class="btn btn-success btn-block btn-lg gradient-custom-4 text-body">Submit</button>

                </div>

              </form>

            </div>

          </div>

        </div>

      </div>

    </div>

  </div>

</section>