Models :

using System.ComponentModel.DataAnnotations;

namespace FirstWebApplication.Models

{

public class Customer

{

[Key]

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

public int Age { get; set; } = 0;

private string password;

public string Password

{

get

{

return GetMaskedPassword();

}

set

{

password = value;

}

}

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

public Customer()

{

}

public Customer(string email, int age, string Password, string phone)

{

Email = email;

Age = age;

Password = password;

Phone = phone;

}

public bool ComparePassword(string userPassword)

{

return (password == userPassword) ? true : false; ;

}

string GetMaskedPassword()

{

var len = password.Length;

string maskedPass = password.Substring(0, 2);

for (int i = 2; i < len; i++)

{

maskedPass += "\*";

}

return maskedPass;

}

public override string ToString()

{

string maskedPass = GetMaskedPassword();

return $"Email : {Email}\nAge : {Age}\nPhone : {Phone}\nPassword :{maskedPass}";

}

}

}

Customer Repository :

using FirstWebApplication.Contexts;

using FirstWebApplication.Interfaces;

using FirstWebApplication.Models;

namespace FirstWebApplication.Repositories

{

public class CustomerRepository : IRepository<string, Customer>

{

private readonly ShoppingContext \_context;

public CustomerRepository(ShoppingContext context)

{

\_context = context;

}

public Customer Add(Customer item)

{

\_context.Customers.Add(item);

\_context.SaveChanges();

return item;

}

public Customer Delete(string key)

{

var customer = Get(key);

\_context.Customers.Remove(customer);

\_context.SaveChanges();

return customer;

}

public Customer Get(string key)

{

var customer = \_context.Customers.SingleOrDefault();

return customer;

}

public IList<Customer> GetAll()

{

var customer = \_context.Customers.ToList();

return customer;

}

public Customer Update(Customer item)

{

var customer = Get(item.Email);

if(customer != null)

{

\_context.Entry<Customer>(item).State = Microsoft.EntityFrameworkCore.EntityState.Modified;

\_context.SaveChanges();

return customer;

}

return null;

}

}

}

ICustomer Service :

using FirstWebApplication.Models;

namespace FirstWebApplication.Interfaces

{

public interface ICustomerService

{

public Customer Register(Customer customer);

//public Customer Login(string email, string password);

public List<Customer> GetCustomers();

}

}

CustomerService :

using FirstWebApplication.Interfaces;

using FirstWebApplication.Models;

using FirstWebApplication.Repositories;

namespace FirstWebApplication.Services

{

public class CustomerService : ICustomerService

{

IRepository<string, Customer> repository;

public CustomerService(IRepository<string, Customer> repo)

{

repository = repo;

}

//public Customer Login(string email, string password)

//{

// var result = GetCustomers(email);

// if (result != null)

// {

// if (result.ComparePassword(password))

// {

// return result;

// }

// }

// throw new Exception();

//}

public Customer GetCustomers(string email)

{

var result = repository.Get(email);

return result == null ? throw new Exception() : result;

}

public List<Customer> GetCustomers()

{

var customers = repository.GetAll();

if (customers.Count != 0)

return customers.ToList();

throw new Exception();

}

public Customer Register(Customer customer)

{

var result = repository.Add(customer);

if (result != null)

return result;

throw new Exception();

}

}

}

CustomerController :

using FirstWebApplication.Interfaces;

using FirstWebApplication.Models;

using Microsoft.AspNetCore.Mvc;

namespace FirstWebApplication.Controllers

{

public class CustomerController : Controller

{

ICustomerService \_customerService;

public CustomerController(ICustomerService customerService)

{

\_customerService = customerService;

}

public IActionResult Index()

{

var customer = \_customerService.GetCustomers();

return View(customer);

}

public IActionResult Create()

{

return View();

}

[HttpPost]

public IActionResult Create(Customer customer)

{

var result = \_customerService.Register(customer);

if (result != null)

{

return RedirectToAction("Index");

}

return View();

}

}

}

Views :

Create :

@model FirstWebApplication.Models.Customer

@{

ViewData["Title"] = "Create";

}

<head>

<**link** href="~/lib/bootstrap/dist/css/bootstrap.css" rel="stylesheet" />

<h1>Create</h1>

<h4>Customer</h4>

<hr />

<style>

head {

padding: 15px;

}

body {

padding: 30px;

}

</style>

</head>

<body>

<div class="row">

<div class="col-md-4">

<**form** **asp-action**="Create">

<**div** **asp-validation-summary**="ModelOnly" class="text-danger"></**div**>

<div class="form-group mb-3">

<**label** **asp-for**="Email" class="control-label">Email</**label**>

<**input** **asp-for**="Email" **type**="email" class="form-control" />

<**span** **asp-validation-for**="Email" class="text-danger"></**span**>

</div>

<div class="form-group mb-3">

<**label** **asp-for**="Age" class="control-label"></**label**>

<**input** **asp-for**="Age" **type**="number" class="form-control" />

<**span** **asp-validation-for**="Age" class="text-danger"></**span**>

</div>

<div class="form-group mb-3">

<**label** **asp-for**="Password" class="control-label"></**label**>

<**input** **asp-for**="Password" **type**="password" class="form-control" />

<**span** **asp-validation-for**="Password" class="text-danger"></**span**>

</div>

<div class="form-group mb-3">

<**label** **asp-for**="Phone" class="control-label"></**label**>

<**input** **asp-for**="Phone" **type**="number" class="form-control" />

<**span** **asp-validation-for**="Phone" class="text-danger"></**span**>

</div>

<div class="form-group">

<input type="submit" value="Create" class="btn btn-primary" />

</div>

</**form**>

</div>

</div>

<div>

<**a** **asp-action**="Index">Back to List</**a**>

</div>

</body>

@section Scripts {

@{

await Html.RenderPartialAsync("\_ValidationScriptsPartial");

}

}

Index :

﻿@\* Strongly type the view \*@

@model IEnumerable<FirstWebApplication.Models.Customer>

<html>

<head>

<**link** href="~/lib/bootstrap/dist/css/bootstrap.css" rel="stylesheet" />

<style>

.prod {

height: fit-content;

float: left;

margin: 10px;

}

</style>

</head>

<body>

@foreach (var item in Model)

{

<div>

<div class="card prod" style="width: fit-content;">

<div class="card-body">

<h5 class="card-title">Email: @item.Email</h5>

<p class="card-text">Phone: @item.Phone</p>

<p class="card-text">Password: @item.Password</p>

<p class="card-text">Age: @item.Age</p>

</div>

</div>

</div>

}

</body>

</html>