namespace FirstWebApp.Models

{

public class Customer

{

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(string email, int age, string password, string phone)

{

Email = email;

Age = age;

Password = password;

Phone = phone;

}

public Customer()

{

}

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}";

}

}

}

----------------------------------------------------------

using FirstWebApp.Interface;

using FirstWebApp.Models;

namespace FirstWebApp.Repositories

{

public class CustomerRepository : IRepository<string, Customer>

{

static Dictionary<string, Customer> customers = new Dictionary<string, Customer>();

public Customer Add(Customer item)

{

customers.Add(item.Email, item);

return item;

}

public Customer Delete(string id)

{

var customer = Get(id);

if (customer != null)

{

customers.Remove(customer.Email);

return customer;

}

return null;

}

public Customer Get(string id)

{

if (customers.ContainsKey(id))

{

return customers[id];

}

return null;

}

public Customer Update(Customer item)

{

var customer = Get(item.Email);

if (customer != null)

{

customers[item.Email] = item;

return item;

}

return null;

}

IList<Customer> IRepository<string, Customer>.GetAll()

{

if (customers.Count == 0)

return null;

return customers.Values.ToList();

}

}

}

--------------------------------------------------------------------

using FirstWebApp.Models;

namespace FirstWebApp.Interface

{

public interface ICustomerService

{

public Customer Register(Customer customer);

public bool Login(string username, string password);

}

}

-----------------------------------------------------------------------------------------------------------------

using FirstWebApp.Interface;

using FirstWebApp.Models;

using FirstWebApp.Repositories;

namespace FirstWebApp.Services

{

public class CustomerService : ICustomerService

{

IRepository<string, Customer> repository;

public CustomerService(IRepository<string, Customer> repo)

{

repository = repo;

}

public bool Login(string username, string password)

{

var myCustomer = repository.Get(username);

if (myCustomer != null)

{

if (myCustomer.ComparePassword(password))

return true;

}

return false;

}

public Customer Register(Customer customer)

{

var result = repository.Add(customer);

if (result != null)

{

return result;

}

throw new Exception();

}

}

}

---------------------------------------------------------------------------------------------------------------

using FirstWebApp.Models;

using Microsoft.EntityFrameworkCore;

using FirstWebApp.Constrollers;

using FirstWebApp.Models;

namespace FirstWebApp.Context

{

public class ShoppingContext : DbContext

{

public ShoppingContext(DbContextOptions options) : base(options)

{

}

public DbSet<Product> Products { get; set; }

public DbSet<Category> Categories { get; set; }

public DbSet<Customer> Customers { get; set; }

}

}

------------------------------------------------------------------------------------------------------------

using FirstWebApp.Interface;

using FirstWebApp.Models;

using FirstWebApp.Services;

using Microsoft.AspNetCore.Mvc;

namespace FirstWebApp.Controllers

{

public class CustomerController : Controller

{

ICustomerService \_customerService;

public CustomerController(ICustomerService customerService)

{

\_customerService = customerService;

}

public IActionResult Index()

{

return View();

}

public IActionResult Create()

{

return View();

}

[HttpPost]

public IActionResult Create(Customer customer)

{

var result = \_customerService.Register(customer);

if (result != null)

{

return RedirectToAction("Index");

}

return View();

}

}

}

----------------------------------------------------------------------

using FirstWebApp.Context;

using FirstWebApp.Interface;

using FirstWebApp.Models;

namespace FirstWebApp.Repositories

{

public class CustomerRepositoryDb : IRepository<string, Customer>

{

private readonly ShoppingContext \_context;

public CustomerRepositoryDb(ShoppingContext context)

{

\_context = context;

}

public Customer Add(Customer item)

{

\_context.Customers.Add(item);//Add local collection

\_context.SaveChanges();//THis is make teh change in DB

return item;

}

public Customer Delete(string key)

{

var customer = Get(key);

\_context.Customers.Remove(customer);//removes from local collection

\_context.SaveChanges();//Makes the delete in database

return customer;

}

public Customer Get(string key)

{

var customer = \_context.Customers.SingleOrDefault(p => p.Email == key);

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;

}

}

}

-----------------------------------------------------------------

@\* Strongly type the view \*@

@model IEnumerable<FirstWebApp.Models.Customer>

<html>

<head>

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

<style>

.prod {

height: 20%;

float: left;

margin: 5px;

}

</style>

</head>

<body>

@foreach (var item in Model)

{

<div>

<div class="card-body">

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

<a href="#" class="btn btn-primary">@item.Password</a>

</div>

</div>

}

</body>

</html>

-------------------------------------------------------------------------------------------------------------

@model FirstWebApp.Models.Customer

@{

ViewData["Title"] = "Register";

}

<h1>Register</h1>

<hr />

<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">

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

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

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

</div>

<div class="form-group">

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

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

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

</div>

<div class="form-group">

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

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

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

</div>

<div class="form-group">

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

<**input** **asp-for**="Phone" 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>

@section Scripts {

@{await Html.RenderPartialAsync("\_ValidationScriptsPartial");}

}

