

CAMPUS ONLINE HELP DESK

- A Project Work Submitted in Fulfillment of the requirements for the ACCP course third semester ASP.NET Core MVC
- In
- Software Engineering
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- > Ahmer Ali
- > Muhammad Muslim
- > Muhammad Ahad
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Index

- Abstract
- 1. Introduction
 - a. Purpose
 - b. Scope
 - c. Overview
 - d. Aim & Objectives
- 2. Functional Requirements
 - a. Admin
 - b. End-User
 - c. Faculty head
- 3. Environmental Characteristics
 - a. Hardware
 - b. Software
- 4. Output
- 5. Conclusion
- 6. References

Abstract:

The project titled "Online help desk" (OHD) is using MS SQL Server, C# with onion Architecture.

This project is aimed at developing an Online Help Desk for the facilities in the campus. This is an Internet based application that can be accessed throughout the campus. This system can be used to automate the workflow of service requests for the various facilities in the campus. This is one integrated system that covers different kinds of facilities like classrooms, Labs, Hostels, Mess, Computer Center faculty club etc. Registered users (Students, Faculty-head, and Admin) will be able to log in a request for service for any of the supported facilities. These requests will be sent to the concerned people, who are also valid users of the system, to get them resolved. There are attractive features like online notice board, chat box, query resolution etc.

Ther are registered people in the system (students, faculty and admin). Some of them are responsible for maintaining the facilities (like, admin is responsible for keeping the records of all the queries and send it to particular faculty head, the students can make queries to any department faculty head, faculty-head, faculty head will responsible for answering all the queries sent by students or admin etc.

Introduction

Help Desk systems are mainly used in colleges with big number of students. Manual method of checking students information will no longer be there again because it will be done by the computer with the help of the computerized Campus Online Help Desk. Because of the easy to use rature of the Campus Online Help Desk, any organization can easily buy it to make use of them.

The goal of this document is to give a description of the development of practical online helpdesk for facilities in the campus.

a) Purpose:

The purpose of this document is to give a detailed description of the requirements for the "Online Help Desk". It will illustrate the purpose and describe the software requirement of Development of practical online help desk.

b) Scope:

It deals with the development of Campus Online Help Desk to help in the checking of customers information.

c) Overview:

- This is an Intrnal based application that can be accessed throughout the campus.
- This system can be used to automate the workflow of service requests for the various facilities in the campus.
- This is one integrated system that covers different kinds of facilities like class-rooms, labs, computer center, hostels faculty club etc.
- Registered users (Admin, Students and Faculty-heads) will be able to log in a request for service for any of the supported facilities.

Aims and Objectives

The aims and objectives of the project are listed below:

- > To develop software called Campus Online Help Desk that will replace the manual method.
- ➤ To develop, promote, and provide adequate and efficiently Campus Online help Desk.
- To maintain an efficient system of collection, sorting and delivery of users information.
- To eliminate the error involved with the marual method of checking users information.
- > To save the time wasted with manual method of checking users information.

Architectural Strategies:

The following tools have been used to develop the system:

- ❖ MS SQL: is the database where all information/data related to requests records and logs are stored.
- ❖ C#: is programming language used to develop the system to enable it to be webbased application. C# is considered the link used to connect users to databases through a user-friendly interface. Additionally SQL server application was used as a local server to host C# file to generate them.
- Server: is the place that hosts all project code.

Functional Requirements

Administrator:

- i. Login to the first page.
- ii. Create new faculty account.
- iii. View all student details.
- iv. View all faculty details.
- v. Check request sent by the user.
- vi. Forward request to the faculty as per requirement.
- vii. View all queries.
- viii. View new queries.
- ix. Reply/delete queries.
- x. Add new notice for students.
- xi. Add new notice for faculty.
- xii. Logout.

Students

Students:

- i. Register Him/Her.
- ii. Login to the first page.
- iii. Change the password after login into the system.
- iv. Edit user details.
- v. Create queries in the system.
- vi. View the status of the query.
- vii. View the list of queries created by him/her over the past.
- viii. Edit and delete query created by him/her.
- ix. Live chat with the faculty.
- x. Logout

Facility-heads

Facility-Heads:

- i. Login to the first page.
- i. Change the password after login into the page...
- iii. Edit details of his/her profile..
- iv. View all queries.
- v. View new queries...
- vi. See the queries created by the users and assigned by the Admin.
- vii. Work on the queries assigned to them.
- viii. Reply/delete the query...
- ix. View replied queries..
- x. Add new notice for students.
- xi. View all notice...
- xii. Logout.

Environmental Characteristics

Hardware:

- 1. ProBook 6460b Laptop with 128G SSD hard-disk and 4GB RAM.
- 2. Network infrastructure (wired and wireless).
- 3. Windows personal Laptop.
- 4. The environment that will host the Local host MS SQL Server.

Software:

- 1. Windows 10Pro N version 22H2
- 2. System Type 64 bit operating system, x64-based processor.
- 3. MS-SQL Server
- 4. Visual Studio 2022 version 7.0
- 5. Network software and protocols in order for systems to communicate: HTTP, HTTPS.

Student

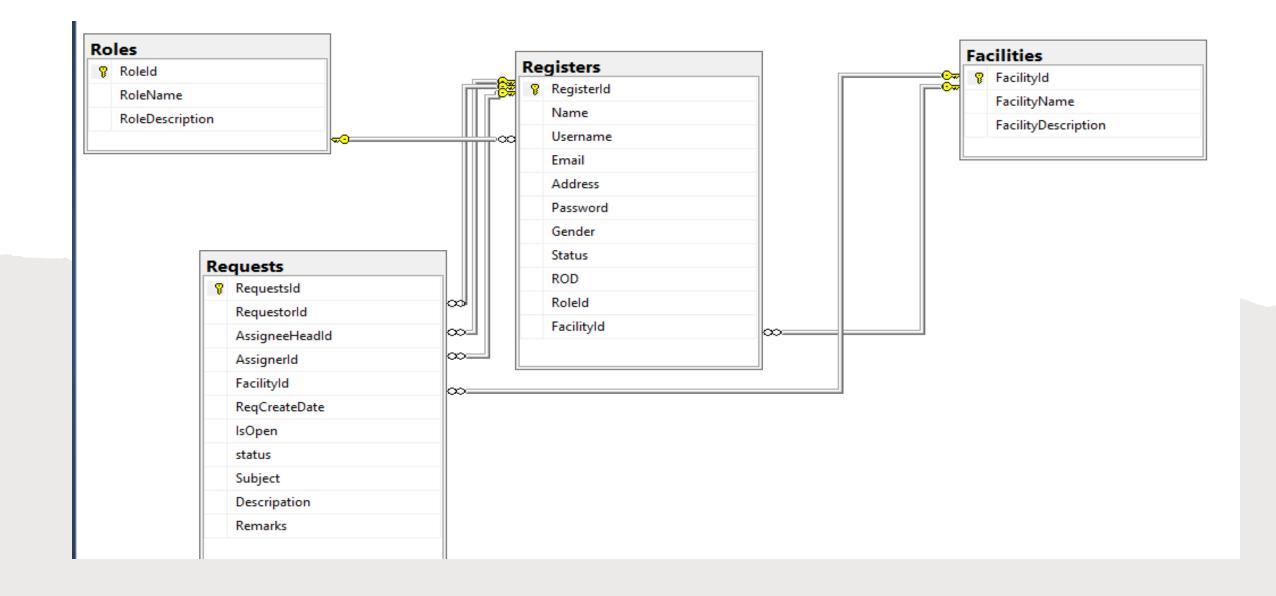
Online Help Desk System

Faculty-Head

Data Flow Diagram

DFD Level 0

Admin



DATABASE ER DIAGRAM

Database Structure

Data Table Properties:

The System database is normalized and designed with the needed table that store the needed information inside columns. Also the need for developing the system capabilities and functionalities has been taken in to account.

Database table created with the following structure:

- 1. Each table column is assigned with suitable data type.
- 2. Each table column is assigned with suitable data auto increment primary Key.
- 3. For each table a foreign key is assigned when necessary plus its constraint type on.

Delete and on Update

- 4. For each table an index and its type is assigned when necessary.
 - 5. For each column a default value is set when necessary.

SYSTEM DATABASE MAIN TABLES

• Roles Table

#	Name	Type	Collation	Null	Default
1	Role_Id	int	Primary key	Not null	Not set
2	Role_Name	varchar		Not null	Not set
3	Role _Description	varchar		null	null

FACILITY TABLE:

#	Name	Туре	Collation	Null
1	FacilityId	int	primary	Not null
2	FacilityName	varchar	index	Not null
3	FacilityDescription	varchar	index	Not

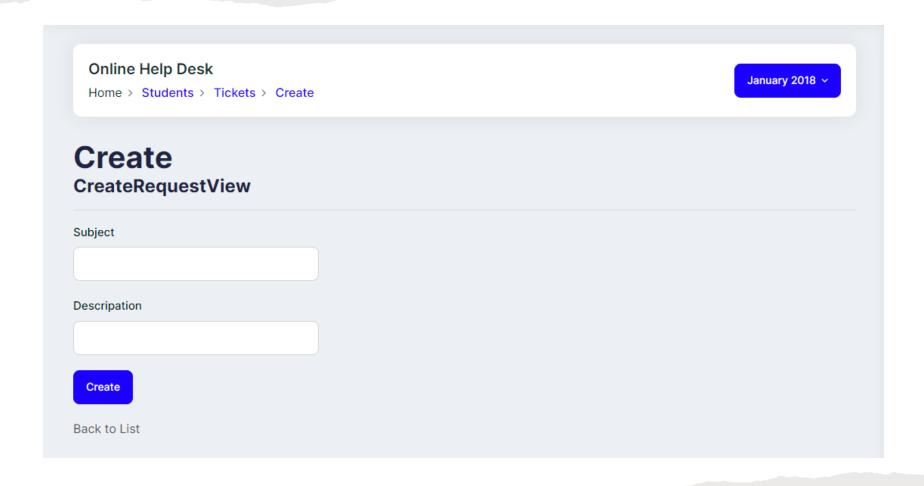
Registers INFO TABLE:

#	Name	Туре	Collation	Null	foreign key
1	RegisterId	int	Primary key	Not null	
2	Name	Varchar(max)	index	Not null	
3	Username	Varchar(max)	index	Not null	
4	Email	Varchar(max)	index	Not null	
5	Address	Varchar(max)	index	Not null	
6	Password	Varchar(max)	index	Not null	
7	Gender	TinyInt	index	0	
8	RoleId	int	Foreign key	Not null	Roles
9	FacilityId	int	Foreign key	Not null	Facility
10	Status	tinyint	index	0	
11	ROD	Datetime	index	Today	

Request Table

#	NAME	TYPE	COLLATION	NULL	FOREIGN KEY
1	RequestsId	int	Primary key	Not null	
2	RequestorId	Int	Foreign key	Not null	Register(Requestor)
3	AssigneeHeadId	Int	Foreign key	Not null	Register (Assignee Head)
4	AssignerId	Int	Foreign key	Not null	Register(Assigner)
5	FacilityId	Int	Foreign key	Not null	Facility
6	Subject	Varchar(max)	index	Not null	
7	Description	Varcahr(max)	index	0	
8	Remarks	Varchar(max)	index	Not null	
9	FacilityId	int	Foreign key	Not null	Facility
10	Status	tinyint	index	0	
11	ReqCreateDate	Datetime	index	Today	

Create User Request Page



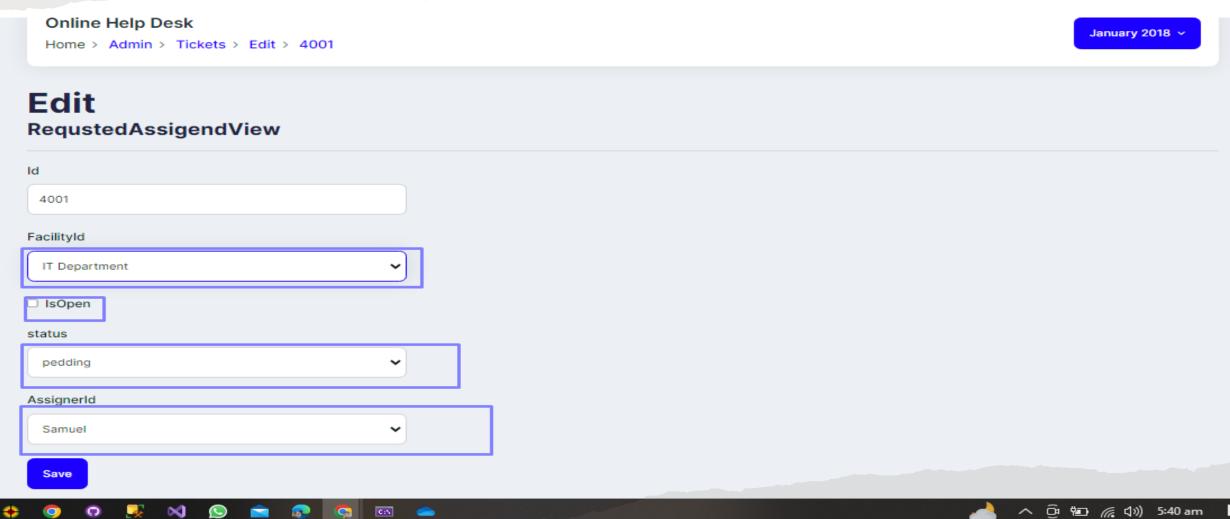
Create User Request Code

```
RequestServices.cs + X
                                                                                                                                                            ▼ CreateRequestView.cs → X
TicketsController.cs + X
■ OHD.UI
                                                                                                                                                                © OHD.ModelsViews → 😭 OHD.ModelsViews → 😭 CreateRequestViev → 🛨
                      🕶 😘 OHD.Services.Reg 💌 😭 createRequest(Cre 🕶 🛨

☐ OHD.Services

                                                                                                                                                                                     public string? Descripation { get; set; }
            mnamespace OHD.UI.Areas.Students.Controllers
                                                                                              mnamespace OHD.Services
                                                                                                                                                                                      public Status status { get; set; } = 0;
                 [Area("Students")]
                                                                                                                                                                                     public DateTime CreateTime { get; set; } = DateTime.No
                                                                                                    public class RequestServices : IRequestServices
                 public class TicketsController : Controller
                                                                                                                                                                                     public CreateRequestView()...
                                                                                                       private readonly IUnitOfWork _unitOfWork;
                     private readonly IRequestServices _requestServices;
                                                                                                       private IEmailSender _emailSender;
                                                                                                                                                                                     public CreateRequestView(int adminID)
                     public TicketsController(IRequestServices requestServices
                                                                                                       public RequestServices(IUnitOfWork unitOfWork , IEma:
                                                                                                                                                                                      public CreateRequestView(Requests model)
                     // GET: TicketsController
                                                                                                       public UserDataView AdminData()
                     public ActionResult Index()
                                                                                                                                                                                          if (model != null)
                                                                                                       public Requests GetRequestById(int id)...
                         int id = (int)HttpContext.Session.GetInt32("Id");
                                                                                                                                                                                             Id = model.RequestsId;
                                                                                                                                                                                             AssigneeHeadId = model.AssigneeHeadId;
                                                                                                       public RequstedAssigendView GetRequestByIdToFacility
                         var data = _requestServices.GetAllCreateRequests(id);
                         return View(data):
                                                                                                       public RegustedAssigendByFacilityView GetReguestById
                                                                                                                                                                                             RequestorId = model.RequestorId;
                                                                                                       public async Task createRequest(CreateRequest @ RequstedAssigendByFacilityView RequestServices.GetRequestByIdToFacility(intid)
                     public ActionResult Create()
      27
                                                                                                                                                                                                 RequestorName = model.Requestor.Name;
                         ViewBag.Admin = (int)HttpContext.Session.GetInt32("Ad
                                                                                                            var model = new CreateRequestView().ConvertModel) | | |
                                                                                         56 🖁
                         ViewBag.Regustor = (int)HttpContext.Session.GetInt32(
                                                                                                           await _unitOfWork.GenericRepository<Requests>().Ar
                         return View():
                                                                                                                                                                                             Subject = model.Subject;
                                                                                                           await _unitOfWork.SaveAsync();
                                                                                                                                                                                             Descripation = model.Descripation;
                                                                                                           string SenderEmail = AdminData().email;
                                                                                                                                                                                             status = model.status;
                     // POST: TicketsController/Create
                                                                                                                                                                                             CreateTime = model.RegCreateDate;
                                                                                                            Task task = _emailSender.SendEmailAsync("complain
                     [HttpPost]
                     [ValidateAntiForgeryToken]
                     public async Task<IActionResult> Create(CreateRequestView
                                                                                                                                                                       60
                                                                                                       public IEnumerable<CreateRequestView> GetAllCreateRev
                         try
                                                                                                                                                                                     public Requests ConvertModel(CreateRequestView vm)
                                                                                                                   List<CreateRequestView> createRequests =
                                                                                                            var list = _unitOfWork.GenericRepository<Request</pre>
                             if (ModelState.IsValid)
                                                                                                          var listVm = ConvertModelToViewModel(list);
                                                                                                           return listVm;
                                //string AdminEmail = (string)HttpContext.Ses
                              await _requestServices.createRequest(vm);
                                TempData["Success"] = "Request Created";
                                return RedirectToAction(nameof(Index));
                                                                                                       public IEnumerable<RegustedAssigendView> GetAllRegue:
```

Admin assign the request to the assigner















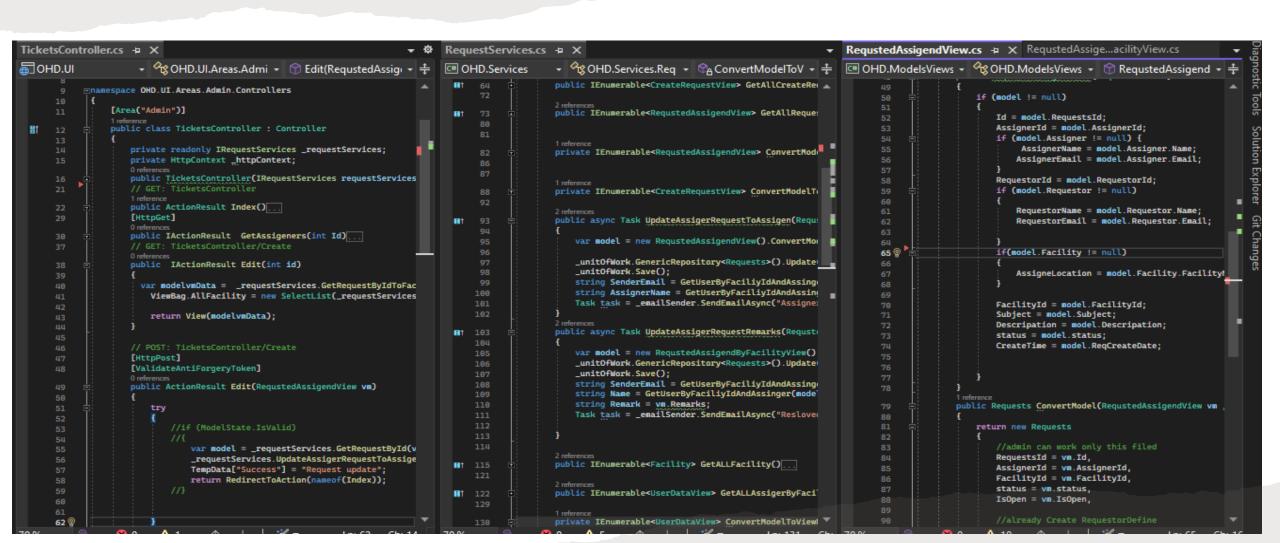




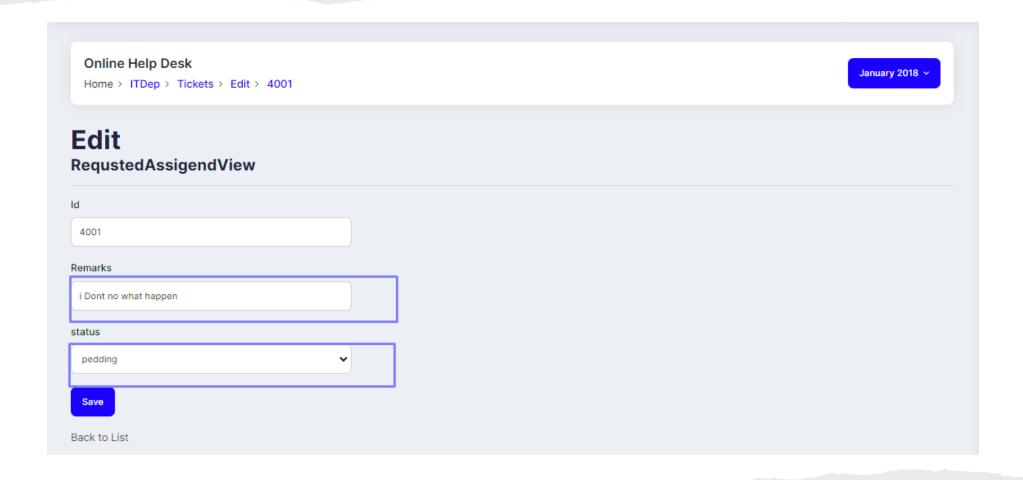




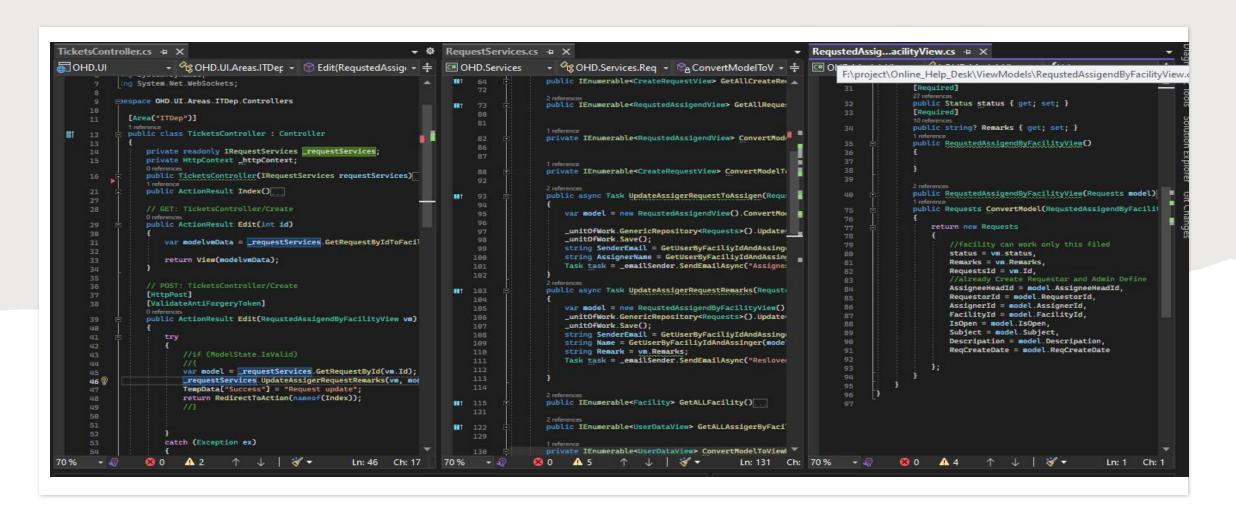
Admin Assign the Request to the Assigner Code



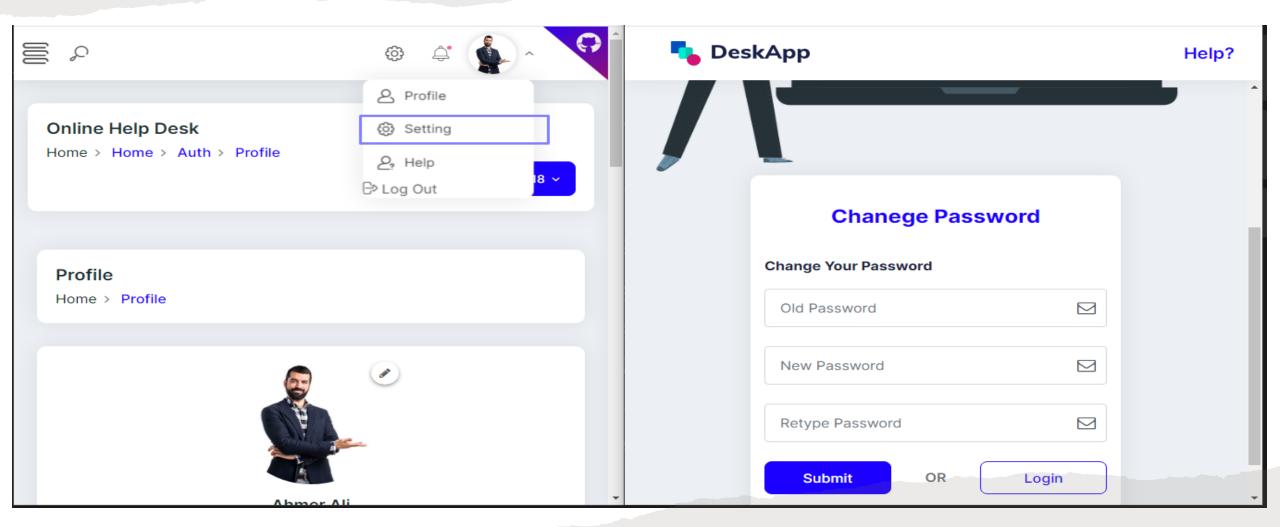
Assigner Remarks pages after done job



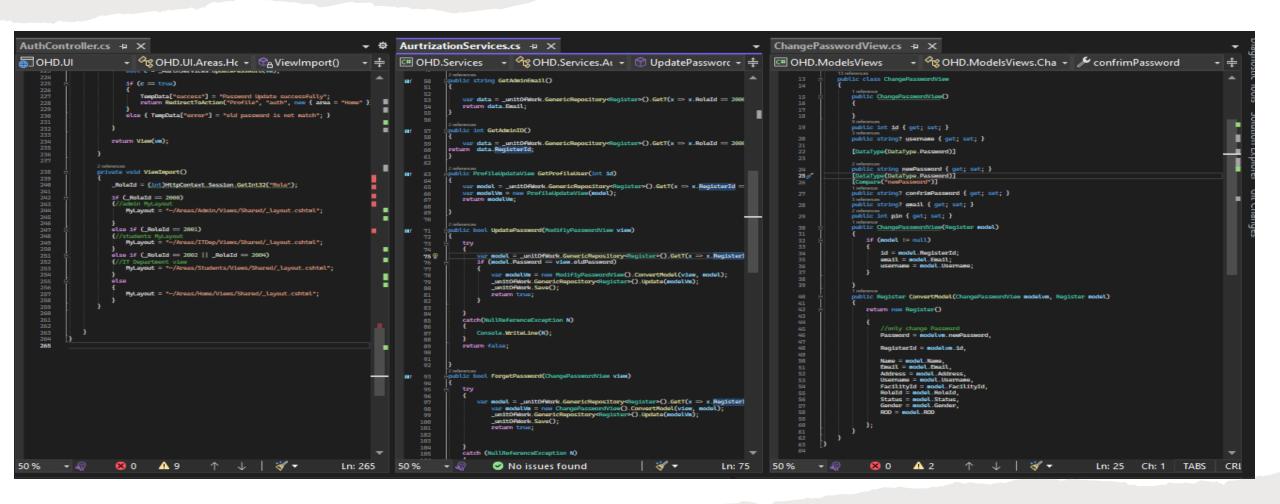
Assigners given Remarks after done job page Controller and Service and ViewModel code



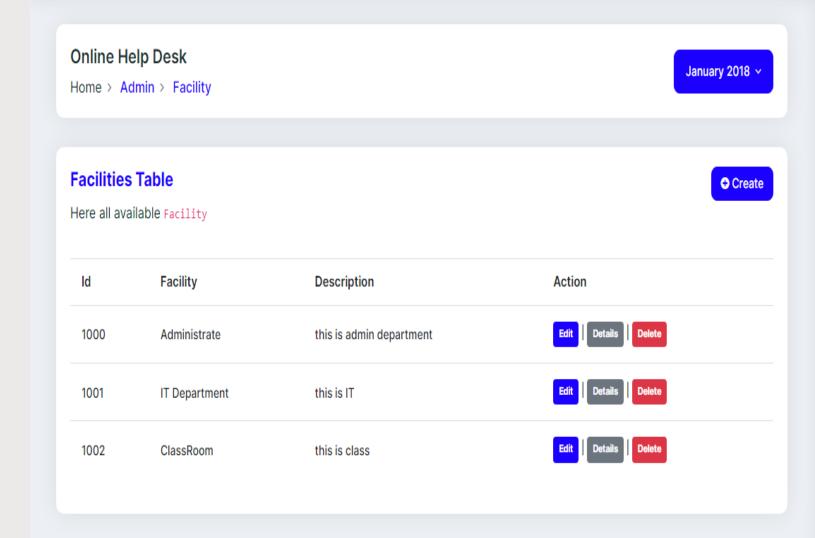
Change password page



Change password page Controller and Service and ViewModel code



All Facility pages



Facility page Controller, Service and ViewModel code

```
FacilityController.cs + X
                                                                                                                                 FacilityServices.cs* + X | FacilityServices.cs
                                                                                                                                                                                                                                                             FacilityView.cs - X RolesView.cs
■ OHD.UI

    → GOHD.UI.Areas.Admi
    → GA_facilityServices

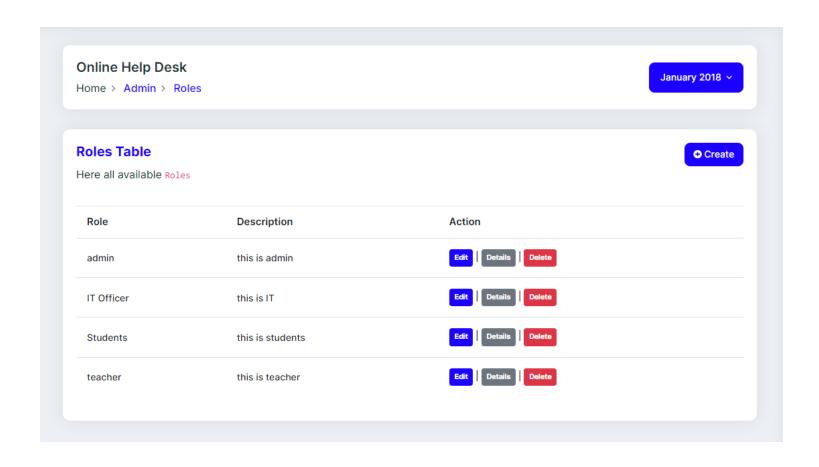
                                                                                                                                  RolesServices.cs

☐ OHD.ModelsViews → ♥ OHD.ModelsViews → Facility

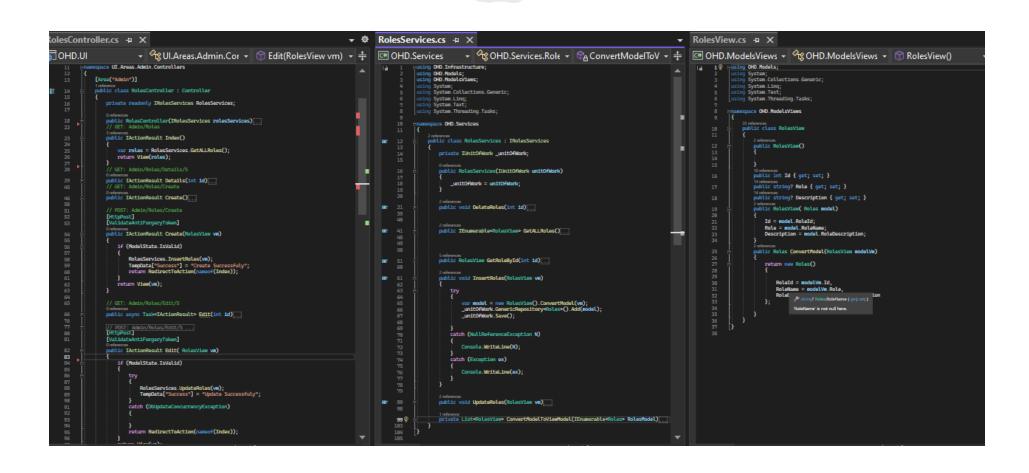
☐ OHD.Services

                                                                                                                                                                    → MODD.Services.Faci → MODE GetFacilityByld(int → +
                                                                                                                                                                                                                                                                                   System;
System.Collections.Generic;
                                                                                                                                                          ce OHD. Services
                      ace OHD.UI.Areas.Admin.Controllers
                   [Area("Admin")]
                                                                                                                                                       sublic class FacilityServices : IFacilityServices
                    public class FacilityController : Controller
                                                                                                                                                          private IUnitOfWork _unitOfWork;
                        private IFacilityServices _facilityServices;
                                                                                                                                                          public FacilityServices(IUnitOfWork unitOfWork)...
                                                                                                                                                                                                                                                                                  public class FacilityView
                                                                                                                                                          public void DeleteFacility(int id)
                        public FacilityController(IFacilityServices facilityServices)
                                                                                                                                                                                                                                                                                     public FacilityView() { }
                            _facilityServices = facilityServices;
                                                                                                                                                                                                                                                                                      public int Id { get; set; }
                                                                                                                                                                                                                                                                    15 👺
                                                                                                                                                                  var Facilityvm = _unitOfHork.GenericRepository<Facility>().GetT(x > x.Fac:[]
_unitOfHork.GenericRepository<Facility>().DelateAsync(Facility>m);
_unitOfHork.Save();
                                                                                                                                                                                                                                                                                     public string Facility { get; set; }
                        public IActionResult Index()
                                                                                                                                                                                                                                                                                      public string Description { get; set; }
                           var dataList = _facilityServices.GetALLFacility();
return View(dataList);
                                                                                                                                                                                                                                                                                       oublic FacilityView(Facility model)
                                                                                                                                                               catch (NullReferenceException N)
                                                                                                                                                                   Console.WriteLine(N):
                                                                                                                                                                                                                                                                                         Facility = model.FacilityName;
Description = model.FacilityDescription;
                        public IActionResult CreateUpdate(int id)
                                                                                                                                                               catch (Exception ex)
                           FacilityView model = new FacilityView();
                                                                                                                                                                  Console WriteLine(ev):
                                                                                                                                                                                                                                                                                       public Facility ConvertHodel(FacilityView modelVm)
                            if (id = null | id = 8)
                                                                                                                                                                                                                                                                                          return new Facility()
                                                                                                                                                           public TEnumerable<FacilityView> GetALLFacility()
                                return View(model);
                                                                                                                                                                                                                                                                                              FacilityId = modelVm.Id,
FacilityName = modelVm.Facility,
                                                                                                                                                              var FacilityModel = _unitOfWork.GenericRepository=Facility=().GetAll();
vmList = ConvertModelToViswModel(FacilityModel);
                                                                                                                                                                                                                                                                                              FacilityDescription = modelVm.Description
                                var data = _facilityServices.GetFacilityById(id);
if (data = null)
                                    return NotFound():
                                                                                                                                       46 ®
                                                                                                                                                          public FacilityView GetFacilityById(int id)
                                 else { return View(data); }
                                                                                                                                                              var Facilityvm = _unitOfWork.GenericRepository<Facility>().GetT(x => x.Facility
var vm = new FacilityView(Facilityvm);
                                                                                                                                                              return ve;
                        [HttpPost]
[ValidateAntiForgeryToken]
                                                                                                                                                          public void InsertFacility(FacilityView vm)
                         mblic IActionResult CreateUpdate(FacilityView modelVm)
                             if (ModelState.IsValid)
                                                                                                                                                                  var model = new FacilityView().ConvertModel(vm);
_unitOfWork.GenericRepository<Facility>().Add(model);
                                if (modelVm.Id == 0)
                                                                                                                                                                    unitOfWork.Save();
                                    _facilityServices.InsertFacility(modelVm);
TempData["Success"] = "Successfully create Done";
                                                                                                                                                               catch (NullReferenceException N)
                                                                                                                                                                   Console.WriteLine(N):
```

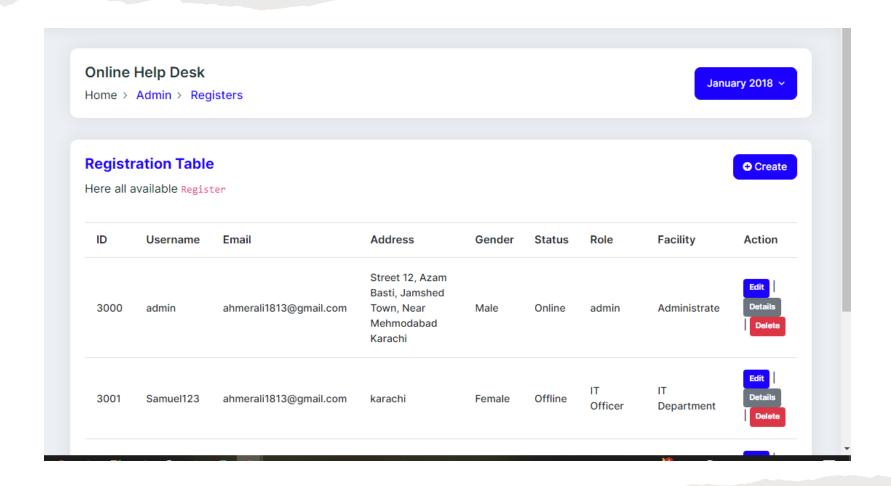
Role Page



Roles page Controller and Service and ViewModel code



Register page



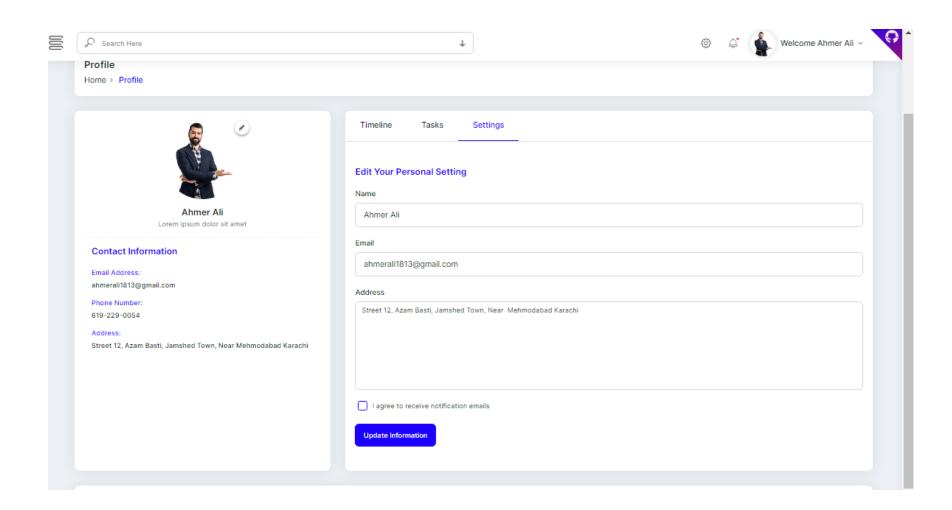
Register page Controller and Service and ViewModel code

```
RegistersController.cs + X

▼ RegisterView.cs 

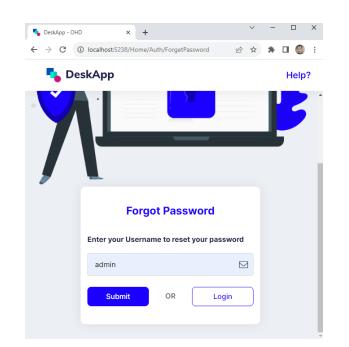
A X
                                  - 4 OHD.UI.Areas.Admi - 6 RegisteredServices - +
                                                                                                                            □ OHD.Services → ♦ OHD.Services.Reg → ♥ UpdateRegister(Re → ‡ □ OHD.ModelsViews → ♦ OHD.ModelsViews → ♥ RegisterView()
             -using Microsoft AspNetCore.Mvc;
using Microsoft.AspNetCore.Mvc.Rendering;
using Microsoft.EntityFrameworkCore.Internal;
                                                                                                                                                  public class RegisterServices : IRegisterServices
                                                                                                                                                                                                                                                                       ing System;
ing System.Collections.Generic;
                                                                                                                                                     private IUnitOfWork _unitOfWork;
private ILogger<RegisterServices> _logger;
             using OHD.ModelsViews;
                                                                                                                                                                                                                                                                     using System.ComponentModel.DataAnnotations;
              usting OHD Services:
                                                                                                                                                                                                                                                                     using System.Text;
using System.Threading.Tasks;
                                                                                                                                                      public RegisterServices(IUnitOfWork unitOfWork, ILogger<RegisterServices> logger)
                                                                                                                                                                                                                                                                     using static OHD.Models.Register;
                  [Area("Admin")]
                                                                                                                                                          _unitOfWork = unitOfWork;
                  public class RegistersController : Controller
                       IRegisterServices _RegisteredServices;
                                                                                                                                                      public void DeleteRegister(int id)
                       public RegistersController(IRegisterServices registeredServices)
                                                                                                                                                                                                                                                                              public RegisterView()
                          _RegisteredServices = registeredServices;
                                                                                                                                                             public int Id { get; set; }
                       public IActionResult Index()
                                                                                                                                                                                                                                                                              public string Name { get; set; }
                         IEnumerable<Regi
return View(vm):
                                            sterView> vm = _RegisteredServices.GetALLRegisters().ToList();
                                                                                                                                                          catch (NullReferenceException N)
                                                                                                                                                                                                                                                                             public string Usermane { get: set: }
                                                                                                                                                              Consolie Writel ine(N):
                                                                                                                                                                                                                                                                             public string Email { get; set; }
                       [HttpGet]
                                                                                                                                                                                                                                                                             public string Address { get; set; }
                       public IActionResult Create()
                                                                                                                                                                                                                                                                             public string Password { get; set; }
                                                                                                                                                              Console.WriteLine(ex);
                          ViowEag.AllRoles = new Selectiist(_RegisteredServices.GetAllRoles(), "RoleId", "Rola ViewEag.AllFacility = new Selectiist(_RegisteredServices.GetAllFacility(), "Facility! Twium View(), "Facility!" | |
                                                                                                                                                                                                                                                                             public gender Gender { get; set; }
                                                                                                                                                                                                                                                                             public status Status { get; set; }
                                                                                                                                                      public IEnumerable<Facility> GetALLFacility()
                                                                                                                                                      public IEnumerable<RegisterView> GetALLRegisters()
                        ublic IActionResult Create(RegisterView model)
                                                                                                                                                                                                                                                                              public Roles roles { get; set; }
                           _RegisteredServices.InsertRegister(model);
                                                                                                                                                          var list = _unitOfWork.GenericRepository<Roles>().GetAll().ToList();
                          TompData["Success"] = "Create Successfuly";
return RedirectToAction("Index");
                                                                                                                                                                                                                                                                             public int RoleId { get; set; }
                                                                                                                                                                                                                                                                             public Facility Facilities { get; set; }
                                                                                                                                                      public RegisterView GetRegisterByExprission(int id)
                       public IActionResult Edit(int id)
                                                                                                                                                         var registervm = _unitOfNork.GenericRepository<Register>().GetT(x \Rightarrow x.Register var vm = new RegisterView(registervm);
                                                                                                                                                                                                                                                                             public int FacilityId { get; set; }
                          1f (1d = null || 1d=8)
                                                                                                                                                                                                                                                                              public RegisterView( Register model)
                              return RedirectToAction("badRequest", "Home", new { area = "Home" });
                                                                                                                                                       c void InsertRegister(RegisterView registerView)
                                                                                                                                                              var model = new RegisterView().ConvertModel(registerView);
                              Vismeng.AllFacility = new SelectList(_RegisterredServices.GetALIReles(), "RolaId", "F
Vismeng.AllFacility = new SelectList(_RegisterredServices.GetALIFacility(), "Facil
var Vm = _RegisterredServices.GetRegister8pExprission(id);
                                                                                                                                                              _unitOfWork.GenericRepository<Register>().Add(model);
_unitOfWork.Save();
                                                                                                                                                                                                                                                                                     Id = model.RegisterId;
Name = model.Name;
                                                                                                                                                          catch (NullReferenceException N)
                                                                                                                                                                                                                                                                                      Email = model.Email:
                                                                                                                                                                                                                                                                                      Address = model.Address:
                                   return RedirectToAction("badRequest", "Home", new { area = "Home" });
                                                                                                                                                              Console.WriteLine(N):
```

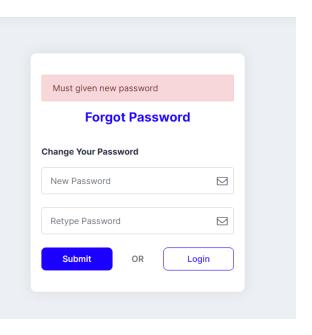
Profile Page View



Profile page view controller, services

```
AuthController.cs + X
                                                                                                                        AurtrizationServices.cs + X
■ OHD.UI
                                   → <sup>A</sup>COHD.UI.Areas.Home.Controllers → <sup>C</sup>A SetPin()
                                                                                                                                                             → COND.Services.AurtrizationService → DupdatePassword(ModifivPasswo
                                                                                                                        ■ OHD.Services
                                                                                                                                               public int GetAdminID()
     171
                     [HttpGet]
                                                                                                                                                   var data = _unitOfWork.GenericRepository<Register>().GetT(x => x.RoleId == 2000);
                                                                                                                                               return data.RegisterId;
                     O references
public IActionResult Profile()
                         if (HttpContext.Session.GetInt32("Id") != null)
                                                                                                                                               public ProfileUpdateView GetProfileUser(int id)
                             _RoleId = (int)HttpContext.Session.GetInt32("Role");
                             ViewImport();
                                                                                                                                                  var model = _unitOfWork.GenericRepository<Register>().GetT(x => x.RegisterId == id);
                             int Id = (int)HttpContext.Session.GetInt32("Id");
                                                                                                                                                  var modelVm = new ProfileUpdateView(model);
                                                                                                                                                  return modelVm;
                             var data = _AurthServices.GetProfileUser(Id);
                             ViewBag.layout = MyLayout;
                                                                                                                                               public bool UpdatePassword(ModifiyPasswordView view)
                             ViewBag.Name = (string)HttpContext.Session.GetString("Name");
                             return View(data);
                         return RedirectToAction("Auth", "Home", new { area = "Home" });
                                                                                                                                                       var model = _unitOfWork.GenericRepository<Register>().GetT(x => x.RegisterId == view.Id)
                                                                                                                                                      if (model.Password == view.oldPassword)
                                                                                                                                                          var modelVm = new ModifiyPasswordView().ConvertModel(view, model);
                                                                                                                                                           _unitOfWork.GenericRepository<Register>().Update(modelVm);
                     public IActionResult Profile(ProfileUpdateView vm)
                                                                                                                                                           return true;
                         ViewBag.layout = MyLayout;
                                                                                                                                                  catch(NullReferenceException N)
                         if (ModelState.IsValid)
                             bool c = _AurthServices.UpdateProfile(vm);
                                                                                                                                                       Console.WriteLine(N);
                             if (c == true)
                                                                                                                                                  return false;
                                 TempData["success"] = "Profile Update successfully";
                             else { TempData["error"] = "old password is not match"; }
                             return View(vm);
                                                                                                                                               public bool ForgetPassword(ChangePasswordView view)
                         return View(vm);
                                                                                                                                                      var model = _unitOfWork.GenericRepository<Register>().GetT(x => x.RegisterId== view.id); "
                                                                                              Ch: 10 SPC
                                                                                                                                                                                                              Ln: 90 Ch: 13 MIXED
```







Forget password Pages

Forget Password Auth Controller and Services

```
AuthController.cs* + X
                                                                                                                         AurtrizationServices.cs + X
- GOHD.UI.Areas.Home.Controllers - ForgetPassword(ChangePasswor - +

    → GOHD.Services.AurtrizationService → GA_emailSender

                                                                                                                         OHD.Services
                     public IActionResult ForgetPassword() => View();
                     [HttpPost]
                                                                                                                                              public bool ForgetPassword(ChangePasswordView view)
                     public async Task<IActionResult> ForgetPassword(ChangePasswordView Vm)
                                                                                                                                                  try
                      if(_pin!=0 && Vm.pin == _pin || Vm.id!=0)
                                                                                                                                                      var model = _unitOfWork.GenericRepository<Register>().GetT(x => x.RegisterId== view.id);
                                                                                                                                                          var modelVm = new ChangePasswordView().ConvertModel(view, model);
                                                                                                                                                          _unitOfWork.GenericRepository<Register>().Update(modelVm);
                             ViewBag.SendEmailCheck = true;
                                                                                                                                                          _unitOfWork.Save();
                             ViewBag.pinVerified = true;
                                                                                                                                                          return true;
                             if (Vm.id != 0)
                                 try
                                                                                                                                                  catch (NullReferenceException N)
                                     var IsOk = _AurthServices.ForgetPassword(Vm);
                                     if (IsOk == true)...
                                                                                                                                                      Console.WriteLine(N);
                                 catch (Exception ex)
                                                                                                                                                  return false;
     104
                                     Console.WriteLine(ex.Message);
                             else
                                                                                                                                              public bool UpdateProfile(ProfileUpdateView profile)
                         else
                                                                                                                                                  try
                             try
                                                                                                                                                      var model = _unitOfWork.GenericRepository<Register>().GetT(x => x.RegisterId == profile.
                                 var modelVm = _AurthServices.GetUserDataByUsername(Vm.username);
                                                                                                                                                      var modelVm = new ProfileUpdateView().ConvertModel(profile , model);
                                 if(modelVm.id == 0)...
                                                                                                                                                      _unitOfWork.GenericRepository<Register>().Update(modelVm);
                                 else
                                                                                                                                                      _unitOfWork.Save();
                                                                                                                                                      return true;
                                     var PinGenrator = new RandomNumberGenerator().GenerateRandomNumbers(1);
                                     _pin = PinGenrator[0];
                                                                                                                                                  catch(NullReferenceException N)
                                     HttpContext.Session.SetInt32("pin", _pin);
                                     await _emailSender.SendEmailAsync("Forget Password" ,"If you Don't remmeber pas
                                                                                                                                                      Console.WriteLine(N);
                                     Console.WriteLine(_pin);
                                     ViewBag.pinVerified = false;
                                                                                                                                                  return false;
                                     ViewBag.SendEmailCheck = true;
                                     ViewBag.email = modelVm.email;
                                     HttpContext.Session.SetInt32("FgId", modelVm.id);
                                     _FqId = modelVm.id;
                                     ViewBag.id = _FgId;
                                                                                                                                           No issues found
```

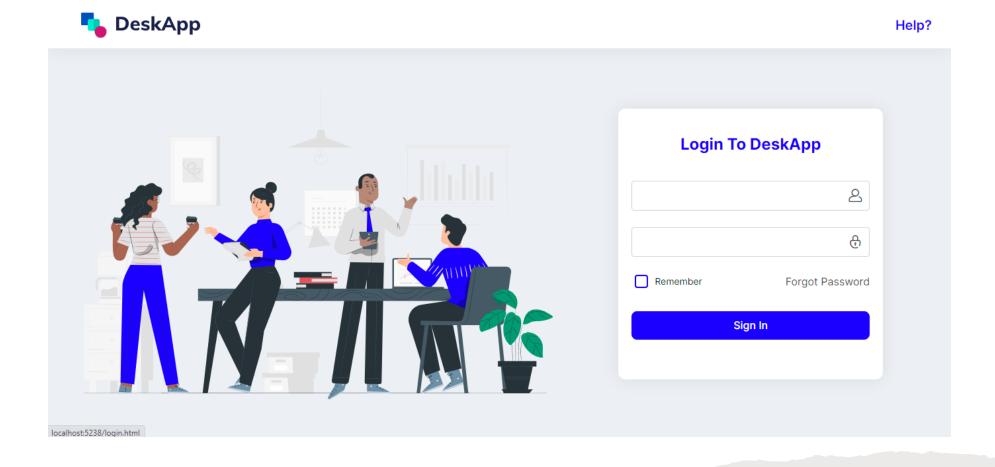
CONCLUSION

The Online Help Desk Project is the small step to reduce the communication distance between the staff and the students.

As the growing use of computers and other electronic devices would mean the growing demand on rapid and quick technical support, this Help Desk Support System is carefully designed to fit with the rapid technical support. It not only helps reducing the time of recording and tracking inquires and problems traditionally, but also improves quality and accuracy of data produced by the system which can lead to more facilitation of decision making process in time.

OHD is designed to accommodate future upgrading and development without the need for building a new system to fit with the growing needs and demands of the system. Having this system hosted online means the ability of both technicians and administrator to track and respond to demands of students at any time beyond the boundaries and walls of college which add one more advantage to replacing the paper-based style.

Login page



Login Auth ViewModel And Registers Models

```
AurthrizationView.cs + X
                                                                                                                   ▼ 🌣 Register.cs Þ 🗙 AuthController.cs

☐ OHD.ModelsViews

                                    → OHD.ModelsViews.Aurthrization → Username
                                                                                                                         C# OHD.Models
                                                                                                                                                               - 🛠 OHD.Models.Register

→ RegisterId

 { l □ using OHD.Models;
                                                                                                                                                                                OHD.Models.Register
                                                                                                                                        namespace OHD.Models
             using System.Collections.Generic;
             using System.ComponentModel.DataAnnotations;
                                                                                                                                                                                Use the dropdown to view and navigate to other items in this file.
                                                                                                                                            public class Register
             using System.Ling;
             using System.Text;
             using System.Threading.Tasks;
                                                                                                                                                public enum status
             namespace OHD.ModelsViews
                                                                                                                                                    Online, Offline, Block, UnActive
                                                                                                                                                4 references
public enum gender { Male, Female, other}
                 public class AurthrizationView
                     [Required]
                                                                                                                                                public int RegisterId { get; set; }
                     S references
public string Username { get; set; }
                                                                                                                                                public string Name { get; set; }
                     [Required]
                                                                                                                                                12 references
public string Username { get; set; }
                     public string Password { get; set; }
                                                                                                                                                [DataType(DataType.EmailAddress)]
                                                                                                                                                public string Email { get; set; }
                     public AurthrizationView()
                                                                                                                                                public string Address { get; set; }
                                                                                                                                                [DataType(DataType.Password)]
                     O references
public AurthrizationView(Register model)
                                                                                                                                                10 references
public string Password { get; set; }
                                                                                                                                                8 references
public gender Gender { get; set; }
                         Username = model.Username;
                         Password = model.Password;
                                                                                                                                                public status Status { get; set; }
                                                                                                                                                 [DataType(DataType.DateTime)]
                                                                                                                                                public DateTime ROD { get; set; } = DateTime.Now;
                                                                                                                                                2 references
public Roles? Role { get; set; }
                                                                                                                                                12 references
public int RoleId { get; set; }
                                                                                                                                                1 reference
public Facility? Facility { get; set; }
                                                                                                                                                public int FacilityId { get; set; }
                 ⊗0 ∆2 ↑ ↓ | ∛ ▼ | ∢
                                                                                      Ln: 1 Ch: 1 MIXED CRLF 70 % → 🔊
                                                                                                                                             ⊗ 0 ∧ 5
                                                                                                                                                                                                                       Ln: 9 Ch: 2 SPC LF
```