LAPORAN UAS
PRAKTEK PEMOGRAMAN VISUAL LANJUT
SEMESTER V

DISUSUN OLEH

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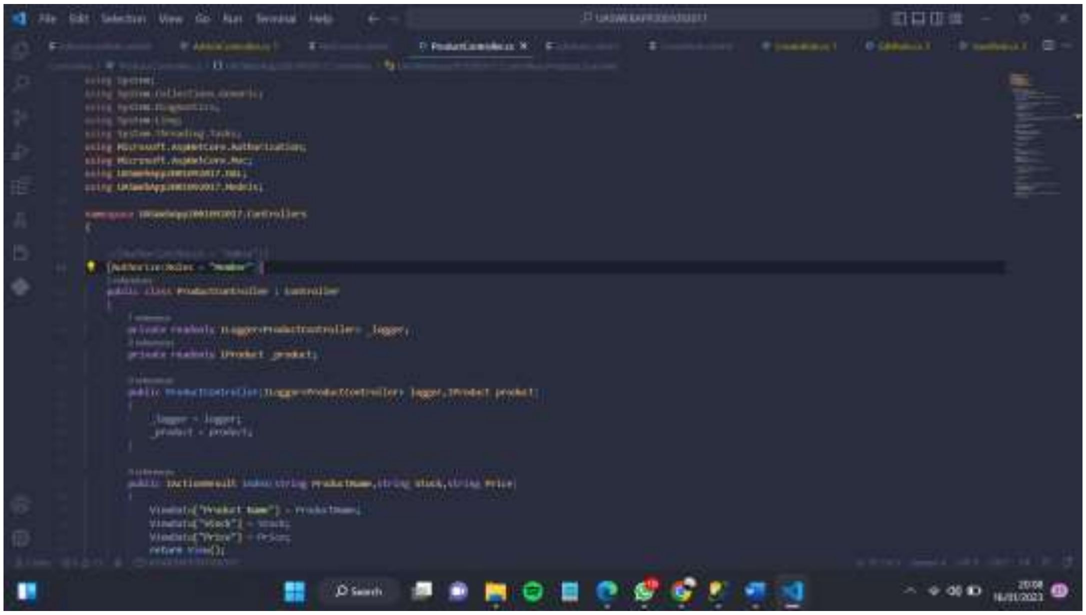
PROGRAM STUDI MANAJEMEN INFORMATIKA
JURUSAN TEKNOLOGI INFORMASI
POLITEKNIK NEGERI PADANG
2022

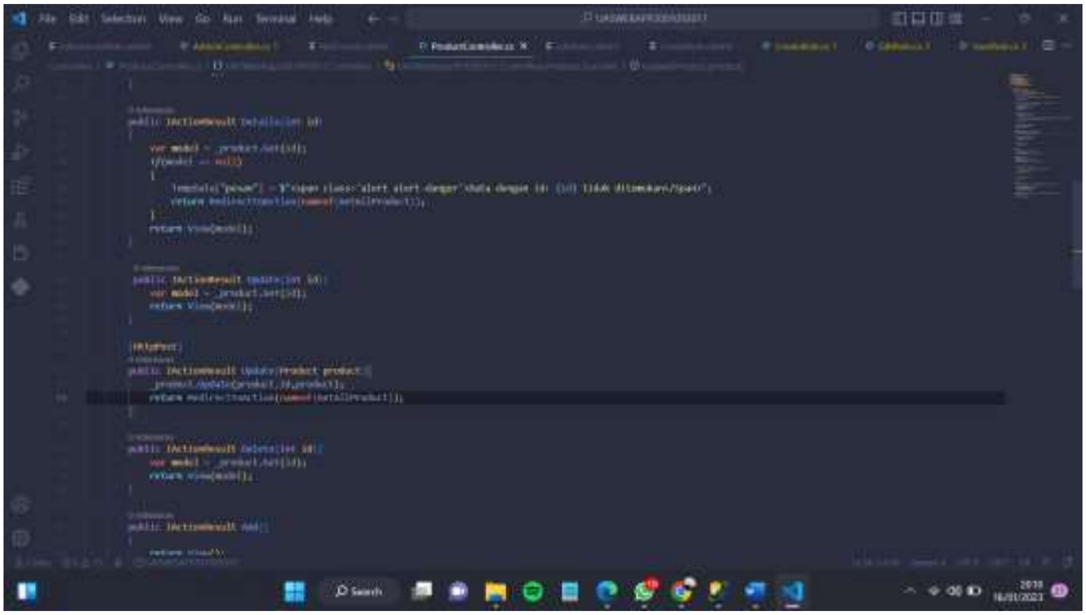
A. Codingan

- Controller

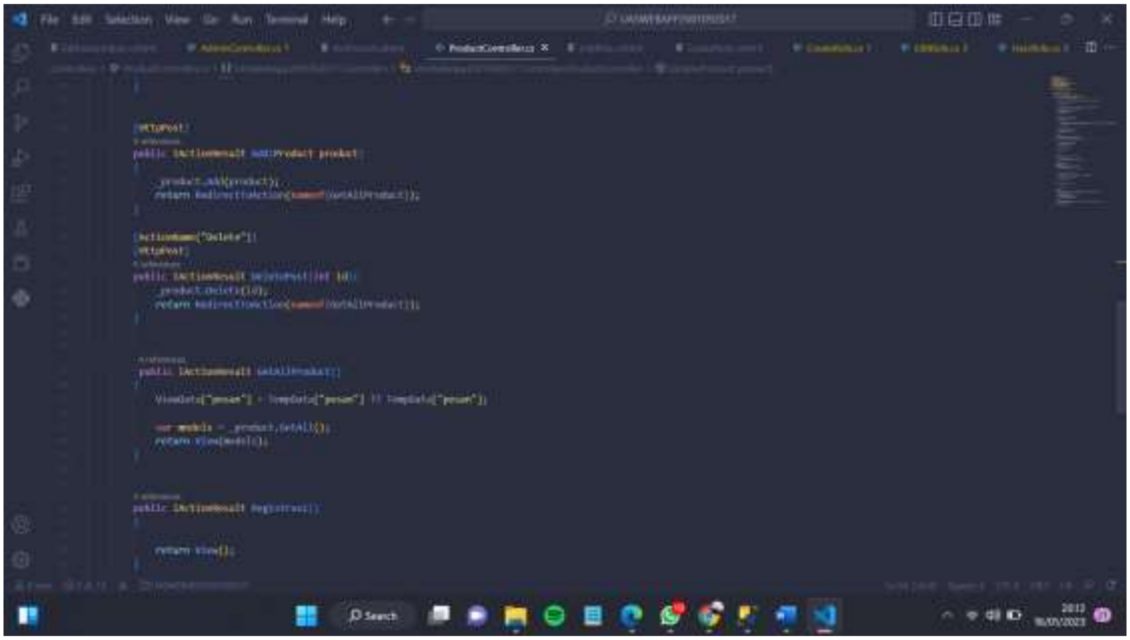
1. ProductController



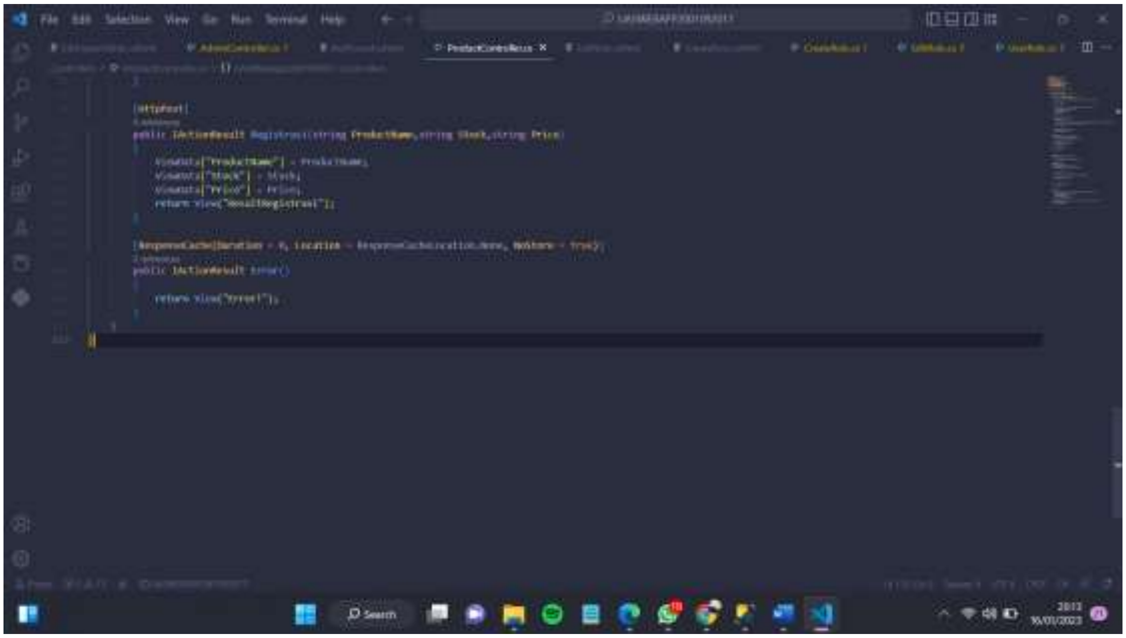
```
using System;
using System.Collections.Generic;
using System.Diagnostics;
using System.Linq;
using System.Threading.Tasks;
using Microsoft.AspNetCore.Authorization;
using Microsoft.AspNetCore.Mvc;
using UASWebApp200109017.DAL;
using UASWebApp200109017.Models;

namespace UASWebApp200109017.Controllers
{
    //[Authorize(Roles = "Admin")]
    [Authorize(Roles = "Member")]
    public class ProductController : Controller
    {
        private readonly ILogger<ProductController> _logger;
        private readonly IProduct _product;

        public ProductController(ILogger<ProductController> logger,IProduct product)
        {
            _logger = logger;
            _product = product;
        }

        public IActionResult Index(string ProductName,string Stock,string Price)
        {
            ViewData["Product Name"] = ProductName;
            ViewData["Stock"] = Stock;
            ViewData["Price"] = Price;
            return View();
```



```
        }

        public IActionResult Details(int id)
        {
            var model = _product.Get(id);
            if(model == null)
            {
                TempData["pesan"] = $"<span class='alert alert-danger'>Data dengan id: {id} tidak ditemukan</span>";
                return RedirectToAction(nameof(DetailProduct));
            }
            return View(model);
        }

        public IActionResult Update(int id){
            var model = _product.Get(id);
            return View(model);
        }

        [HttpPost]
        public IActionResult Update(Product product){
            _product.Update(product.Id,product);
            return RedirectToAction(nameof(DetailProduct));
        }

        public IActionResult Delete(int id){
            var model = _product.Get(id);
            return View(model);
        }

        public IActionResult Add()
        {
            return View();
```

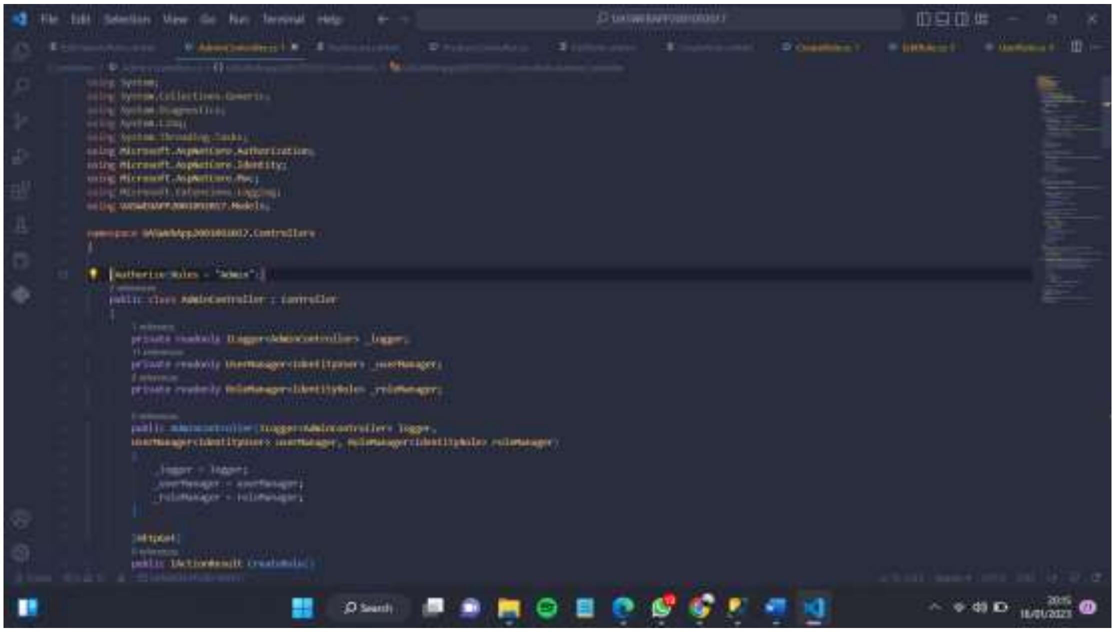


```
        }

        [HttpPost]
        public IActionResult Add(Product product)
        {
            _product.Add(product);
            return RedirectToAction(nameof(GetAllProduct));
        }

        [ActionName("Delete")]
        [HttpPost]
        public IActionResult DeletePost(int id){
            _product.Delete(id);
            return RedirectToAction(nameof(GetAllProduct));
        }


         public IActionResult GetAllProduct()
        {
            ViewData["pesan"] = TempData["pesan"] ?? TempData["pesan"];

            var models = _product.GetAll();
            return View(models);
        }


        public IActionResult Registrasi()
        {

            return View();
        }
```

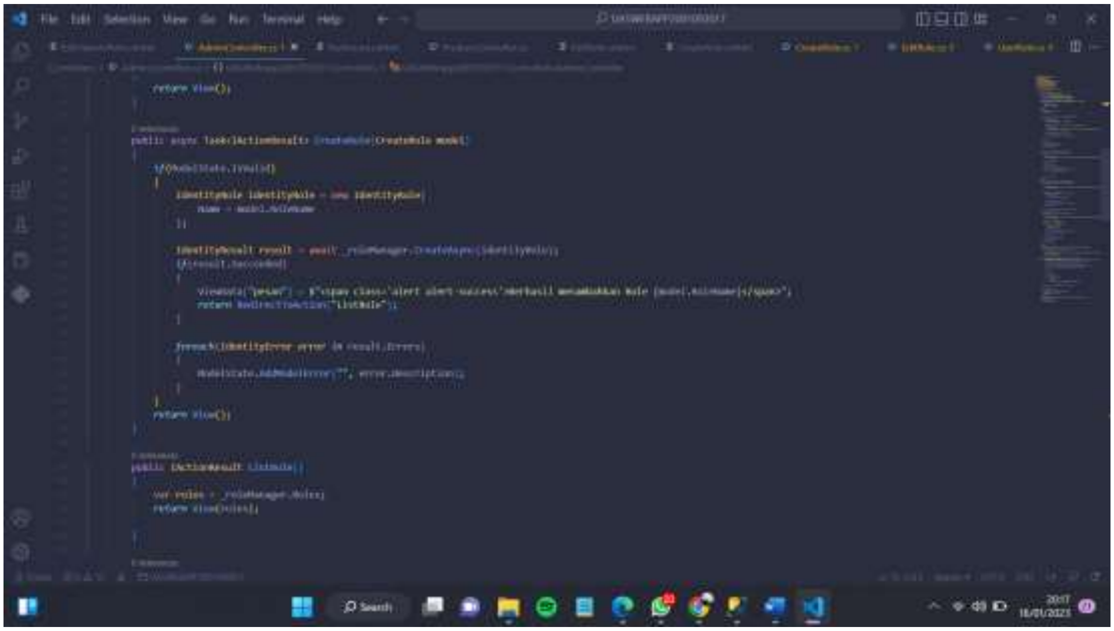


```
        }

        [HttpPost]
        public IActionResult Registrasi(string ProductName,string Stock,string Price)
        {
            ViewData["ProductName"] = ProductName;
            ViewData["Stock"] = Stock;
            ViewData["Price"] = Price;
            return View("ResultRegistrasi");
        }

        [ResponseCache(Duration = 0, Location = ResponseCacheLocation.None, NoStore = true)]
        public IActionResult Error()
        {
            return View("Error!");
        }
    }
}
```

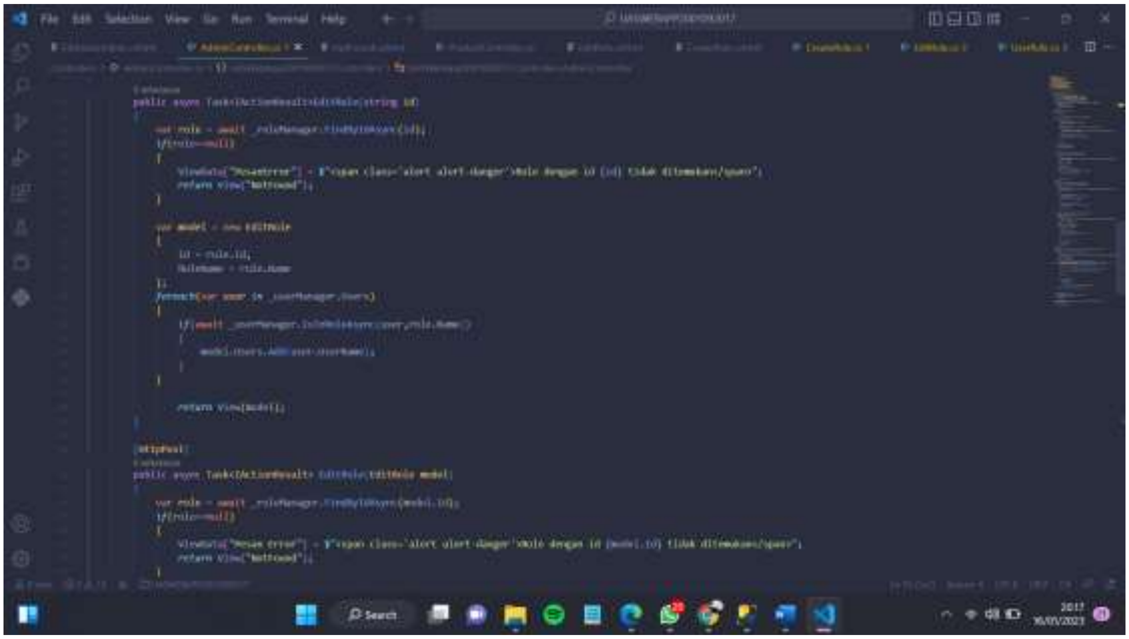
2. AdminController



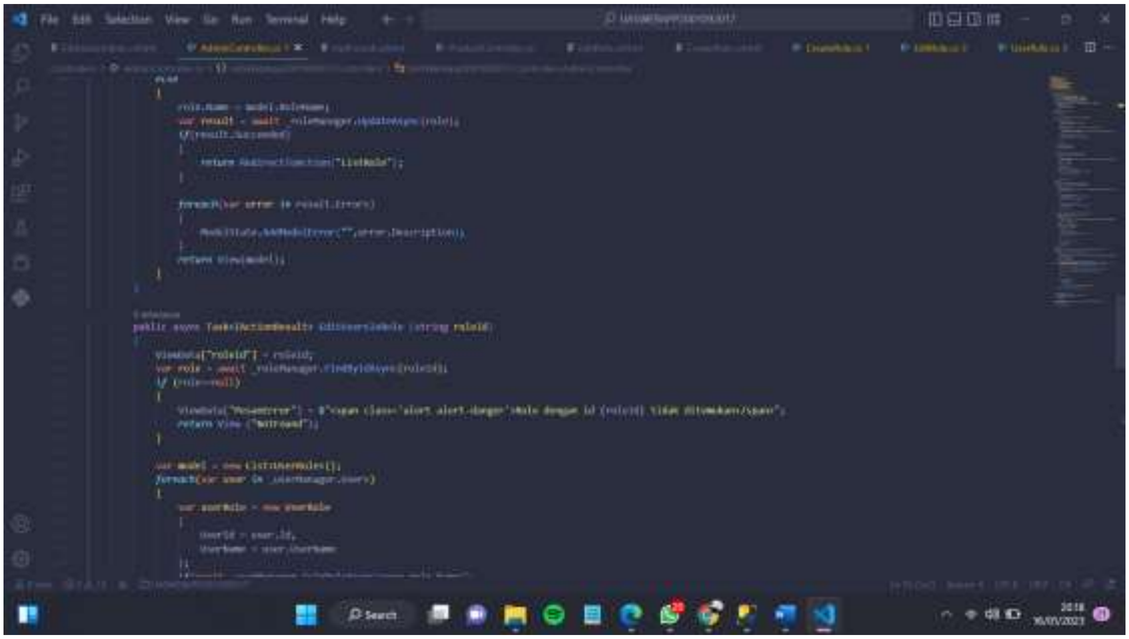
```
using System;
using System.Collections.Generic;
using System.Diagnostics;
using System.Linq;
using System.Threading.Tasks;
using Microsoft.AspNetCore.Authorization;
using Microsoft.AspNetCore.Identity;
using Microsoft.AspNetCore.Mvc;
using Microsoft.Extensions.Logging;
using UASWebAPP200101017.Models;

namespace UASWebApp200101017.Controllers
{
    [Authorize(Roles = "Admin")]
    public class AdminController : Controller
    {
        private readonly ILogger<AdminController> _logger;
        private readonly UserManager<IdentityUser> _userManager;
        private readonly RoleManager<IdentityRole> _roleManager;

        public AdminController(ILogger<AdminController> logger,
        UserManager<IdentityUser> userManager, RoleManager<IdentityRole> roleManager)
        {
            _logger = logger;
            _userManager = userManager;
            _roleManager = roleManager;
        }

        [HttpGet]
        public IActionResult CreateRole()
```



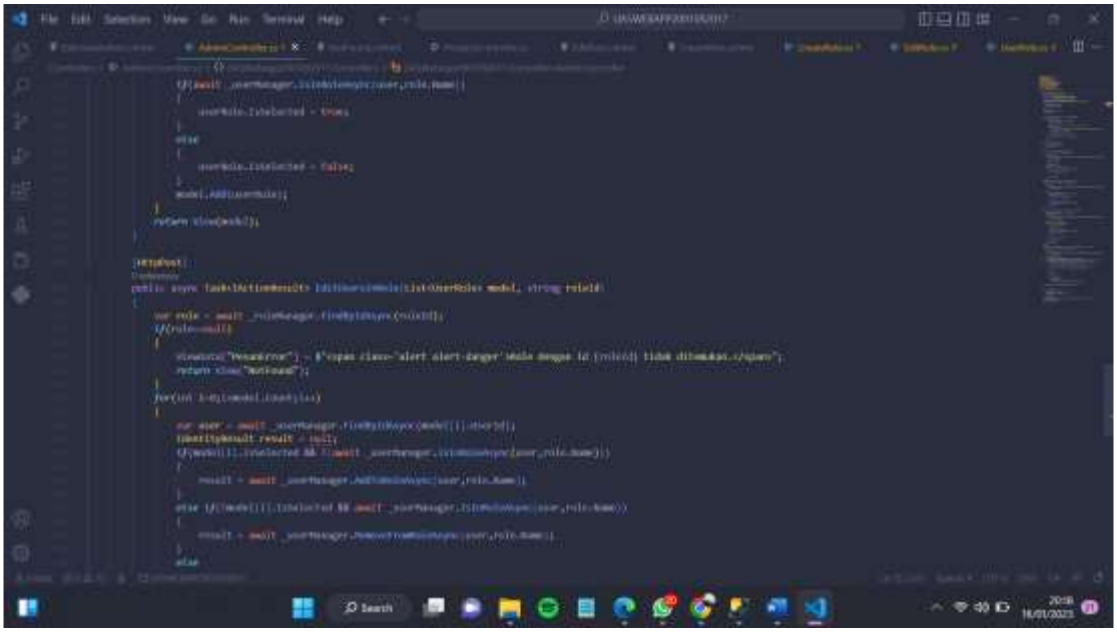
```
            return View();
        }

        public async Task<IActionResult> CreateRole(CreateRole model)
        {
            if(ModelState.IsValid)
            {
                IdentityRole identityRole = new IdentityRole{
                    Name = model.RoleName
                };

                IdentityResult result = await _roleManager.CreateAsync(identityRole);
                if(result.Succeeded)
                {
                    ViewData["pesan"] = $"<span class='alert alert-success'>Berhasil menambahkan Role {model.RoleName}</span>";
                    return RedirectToAction("ListRole");
                }

                foreach(IdentityError error in result.Errors)
                {
                    ModelState.AddModelError("", error.Description);
                }
            }
            return View();
        }

        public IActionResult ListRole()
        {
            var roles = _roleManager.Roles;
            return View(roles);

        }
```



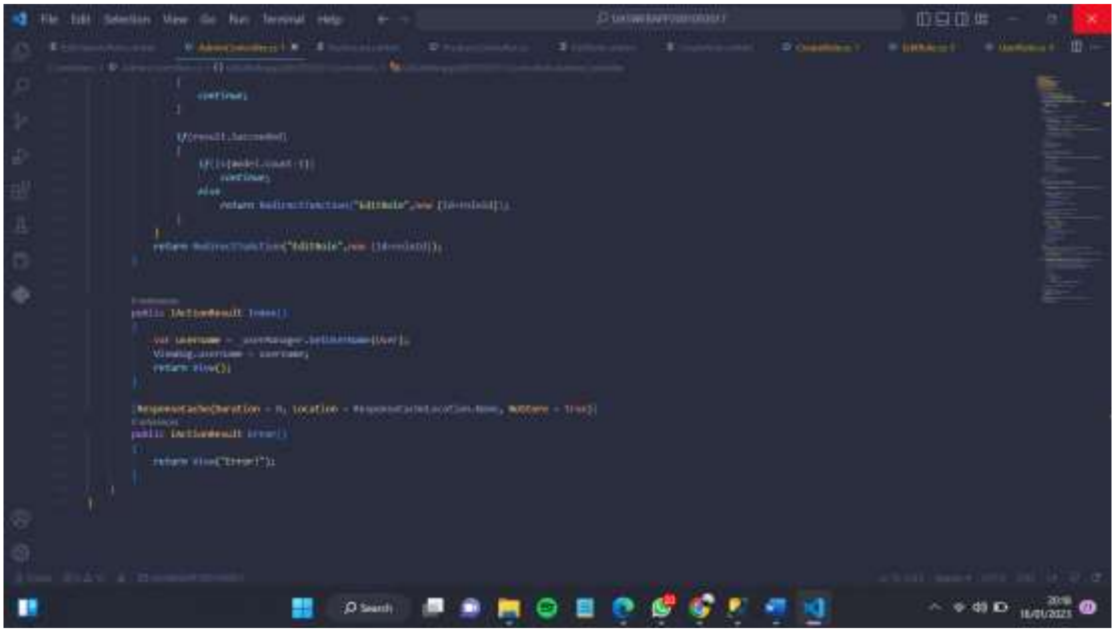
```
public async Task<IActionResult>EditRole(string id)
{
    var role = await _roleManager.FindByIdAsync(id);
    if(role==null)
    {
        ViewData["PesanError"] = $"<span class='alert alert-danger'>Role dengan id {id} tidak ditemukan</span>";
        return View("NotFound");
    }

    var model = new EditRole
    {
        Id = role.Id,
        RoleName = role.Name
    };
    foreach(var user in _userManager.Users)
    {
        if(await _userManager.IsInRoleAsync(user,role.Name))
        {
            model.Users.Add(user.UserName);
        }
    }

        return View(model);
}

[HttpPost]
public async Task<IActionResult> EditRole(EditRole model)
{
    var role = await _roleManager.FindByIdAsync(model.Id);
    if(role==null)
    {
        ViewData["Pesan Error"] = $"<span class='alert alert-danger'>Role dengan id {model.Id} tidak ditemukan</span>";
        return View("NotFound");
    }
```



```
    else
    {
        role.Name = model.RoleName;
        var result = await _roleManager.UpdateAsync(role);
        if(result.Succeeded)
        {
            return RedirectToAction("ListRole");
        }

        foreach(var error in result.Errors)
        {
            ModelState.AddModelError("",error.Description);
        }
        return View(model);
    }
}

public async Task<IActionResult> EditUsersInRole (string roleId)
{
    ViewData["roleId"] = roleId;
    var role = await _roleManager.FindByIdAsync(roleId);
    if (role==null)
    {
        ViewData["PesanError"] = $"<span class='alert alert-danger'>Role dengan id {roleId} tidak ditemukan</span>";
        return View ("NotFound");
    }

    var model = new List<UserRole>();
    foreach(var user in _userManager.Users)
    {
        var userRole = new UserRole
        {
            UserId = user.Id,
            UserName = user.UserName
        };
```



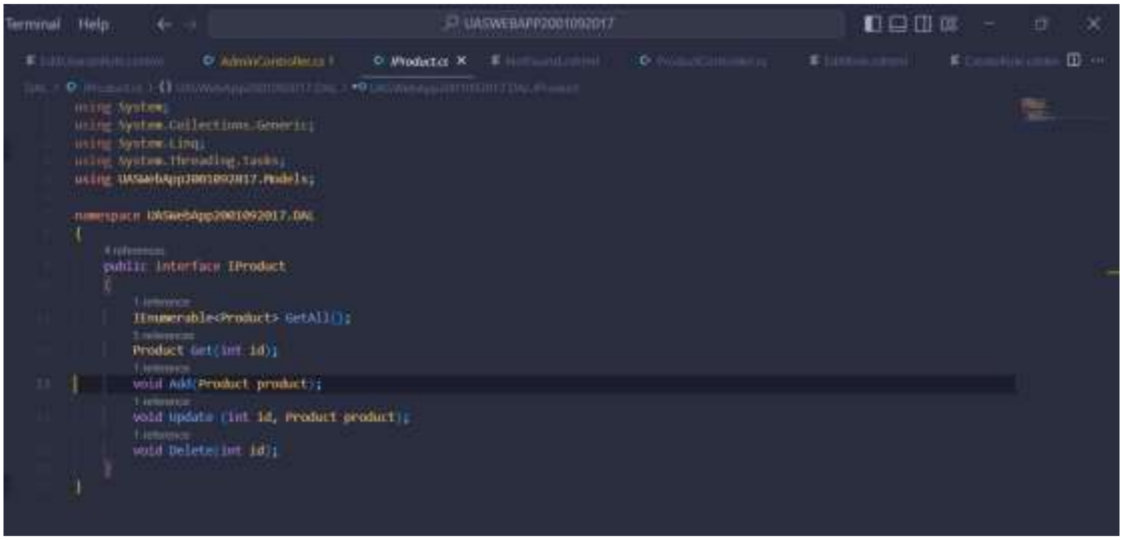
```
                if(await _userManager.IsInRoleAsync(user,role.Name))
                {
                    userRole.IsSelected = true;
                }
                else
                {
                    userRole.IsSelected = false;
                }
                model.Add(userRole);
            }
            return View(model);
        }

        [HttpPost]
        public async Task<IActionResult> EditUsersInRole(List<UserRole> model, string roleId)
        {
            var role = await _roleManager.FindByIdAsync(roleId);
            if(role==null)
            {
                ViewData["PesanError"] = $"<span class='alert alert-danger'>Role dengan Id {roleId} tidak ditemukan.</span>";
                return View("NotFound");
            }
            for(int i=0;i<model.Count;i++)
            {
                var user = await _userManager.FindByIdAsync(model[i].UserId);
                IdentityResult result = null;
                if(model[i].IsSelected && !(await _userManager.IsInRoleAsync(user,role.Name)))
                {
                    result = await _userManager.AddToRoleAsync(user,role.Name);
                }
                else if(!model[i].IsSelected && await _userManager.IsInRoleAsync(user,role.Name))
                {
                    result = await _userManager.RemoveFromRoleAsync(user,role.Name);
                }
                else
```



```
                {
                    continue;
                }

                if(result.Succeeded)
                {
                    if(i<(model.Count-1))
                        continue;
                    else
                        return RedirectToAction("EditRole",new {Id=roleId});
                }
            }
            return RedirectToAction("EditRole",new {Id=roleId});
        }

        public IActionResult Index()
        {
            var username = _userManager.GetUserName(User);
            ViewBag.username = username;
            return View();
        }

        [ResponseCache(Duration = 0, Location = ResponseCacheLocation.None, NoStore = true)]
        public IActionResult Error()
        {
            return View("Error!");
        }
    }
}
```

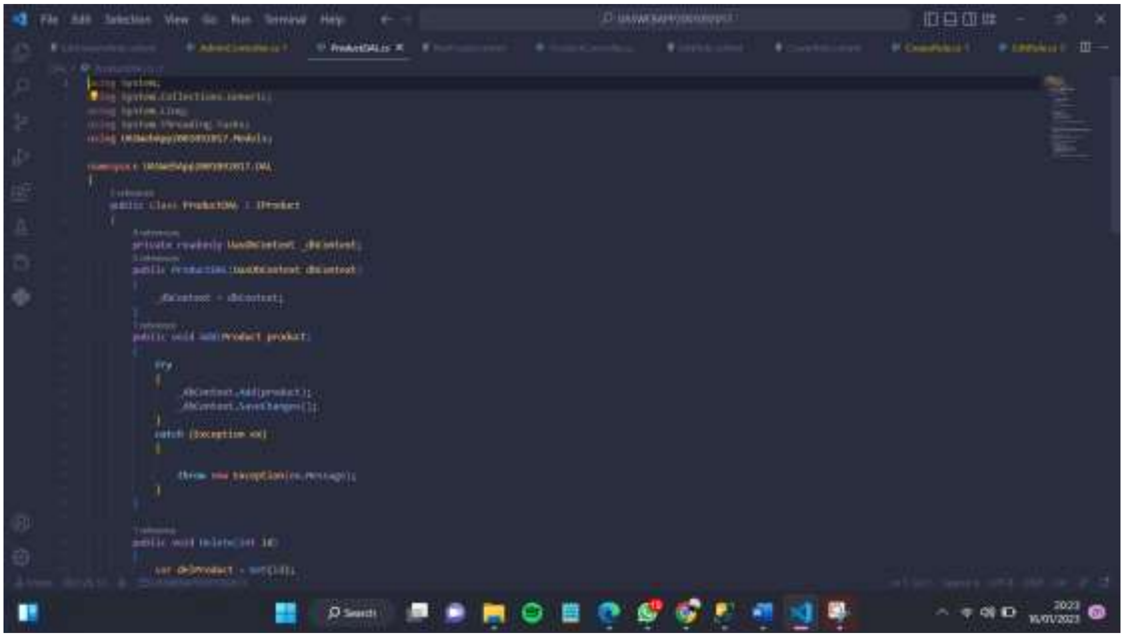
- DAL

1. IProduct.cs

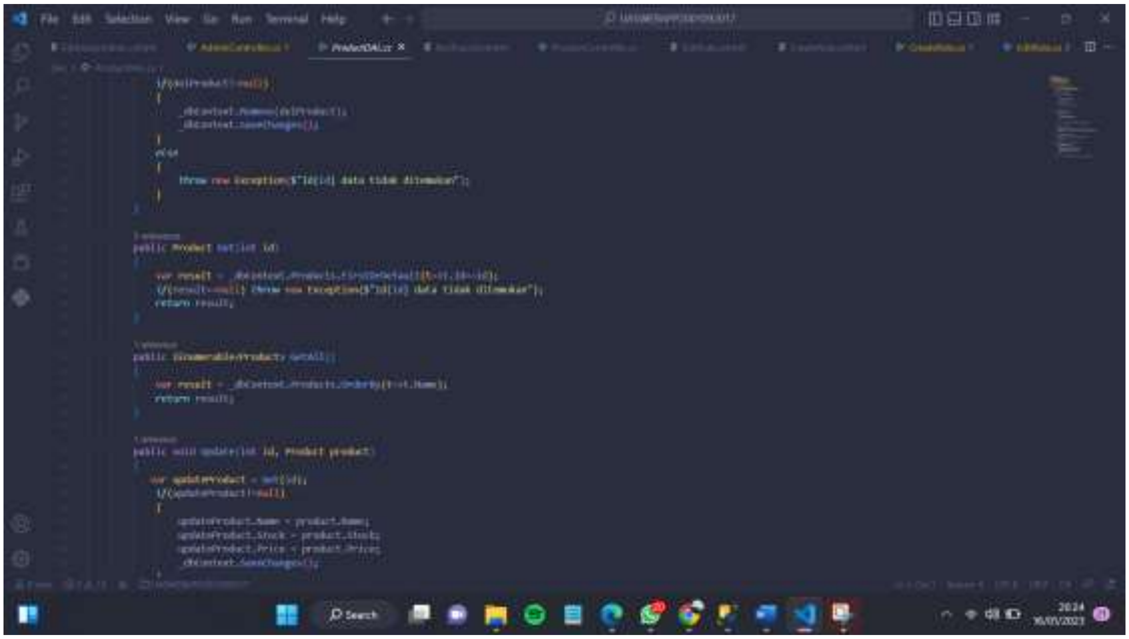


```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;
using UASWebApp2001092017.Models;

namespace UASWebApp2001092017.DAL
{
    4 references
    public interface IProduct
    {
        1 reference
        IEnumerable<Product> GetAll();
        2 references
        Product Get(int id);
        1 reference
        void Add(Product product);
        1 reference
        void Update (int id, Product product);
        1 reference
        void Delete(int id);
    }
}
```

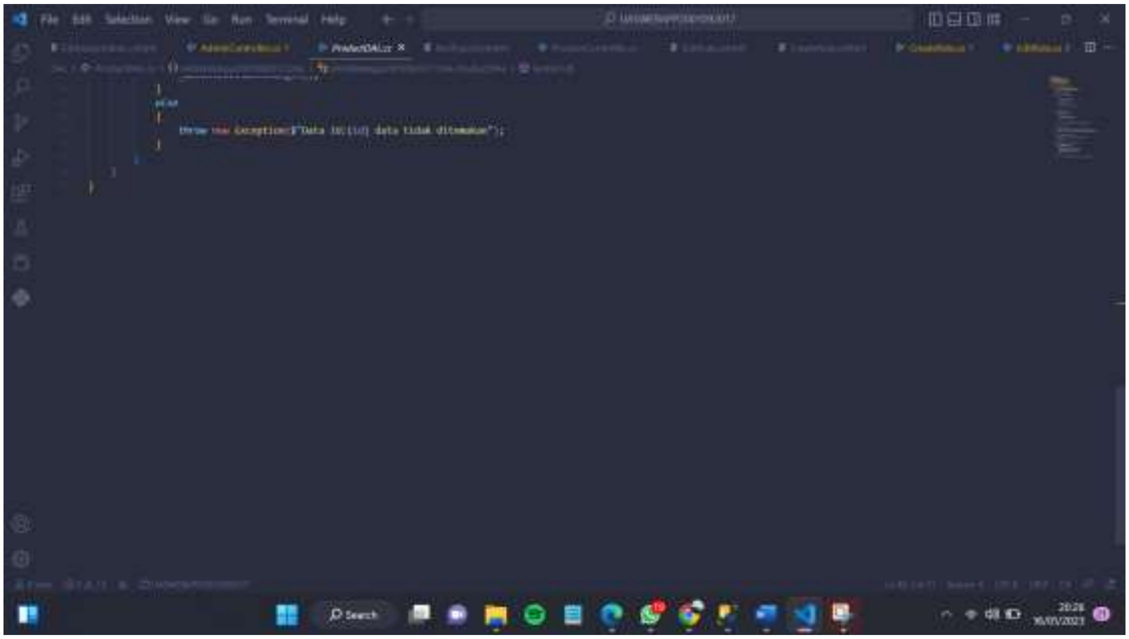
2. ProductDAL.cs



```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;
using UASWebApp2001092017.Models;

namespace UASWebApp2001092017.DAL
{
    public class ProductDAL : IProduct
    {
        private readonly UasDbContext _dbContext;
        public ProductDAL(UasDbContext dbContext)
        {
            _dbContext = dbContext;
        }
        public void Add(Product product)
        {
            try
            {
                _dbContext.Add(product);
                _dbContext.SaveChanges();
            }
            catch (Exception ex)
            {

                throw new Exception(ex.Message);
            }
        }

        public void Delete(int id)
        {
            var delProduct = Get(id);
```

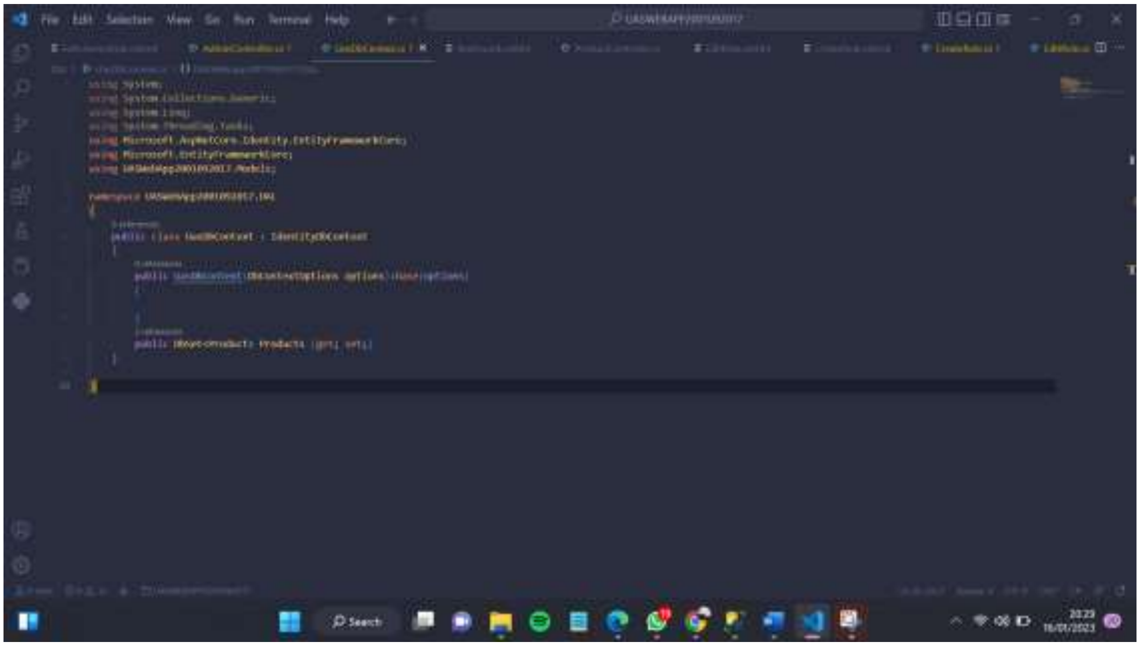


```
            if(delProduct!=null)
            {
                _dbcontext.Remove(delProduct);
                _dbcontext.SaveChanges();
            }
            else
            {
                throw new Exception($"Id{id} data tidak ditemukan");
            }
        }

        public Product Get(int id)
        {
            var result = _dbcontext.Products.FirstOrDefault(t=>t.Id==id);
            if(result==null) throw new Exception($"Id{id} data tidak ditemukan");
            return result;
        }

        public IEnumerable<Product> GetAll()
        {
            var result = _dbContext.Products.OrderBy(t=>t.Name);
            return result;
        }

        public void Update(int id, Product product)
        {
          var updateProduct = Get(id);
            if(updateProduct!=null)
            {
                updateProduct.Name = product.Name;
                updateProduct.Stock = product.Stock;
                updateProduct.Price = product.Price;
                _dbcontext.SaveChanges();
            }
```



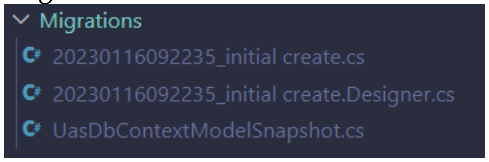
```
            }
            else
            {
                throw new Exception($"Data ID:{id} data tidak ditemukan");
            }
        }
    }
}
```

3. UasDbContext.cs



```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;
using Microsoft.AspNetCore.Identity.EntityFrameworkCore;
using Microsoft.EntityFrameworkCore;
using UASWebApp2001092017.Models;

namespace UASWebApp2001092017.DAL
{
    public class UasDbContext : IdentityDbContext
    {
        public UasDbContext(DbContextOptions options):base(options)
        {

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

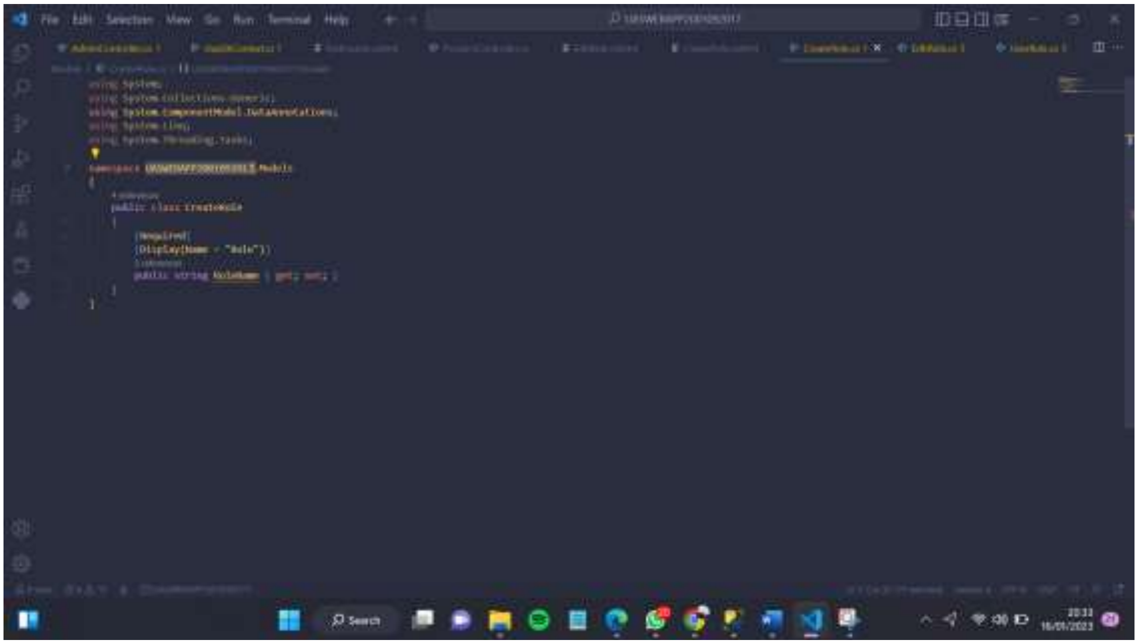
- Migration



```
Migrations
  20230116092235_initial create.cs
  20230116092235_initial create.Designer.cs
  UasDbContextModelSnapshot.cs
```

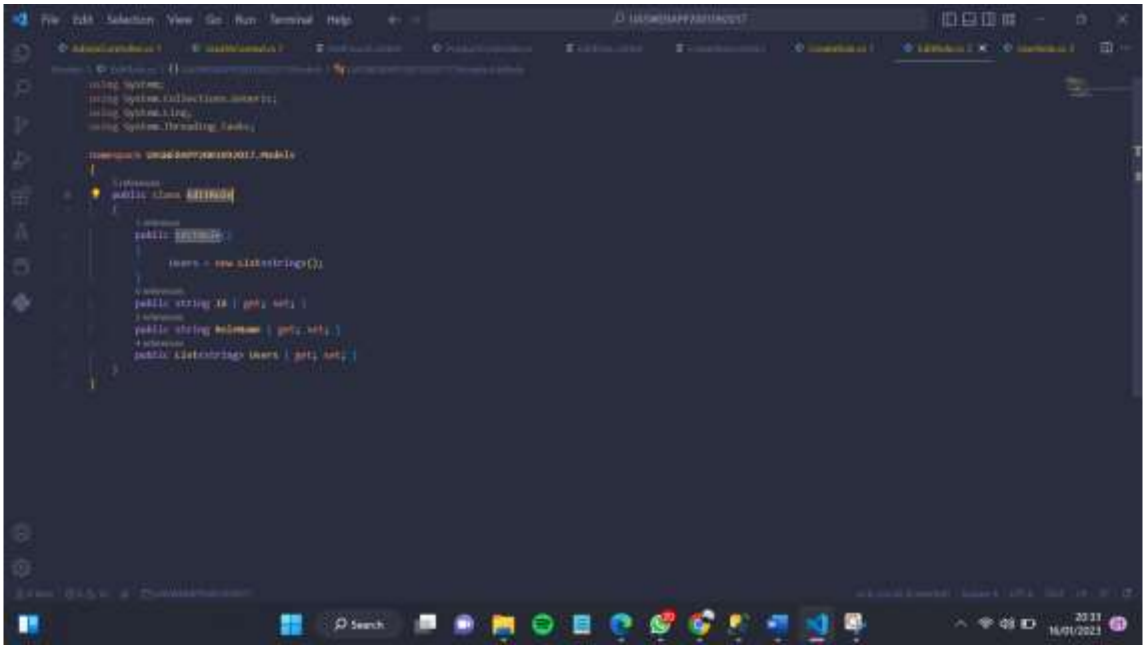
- Models

1. CreateRole.cs



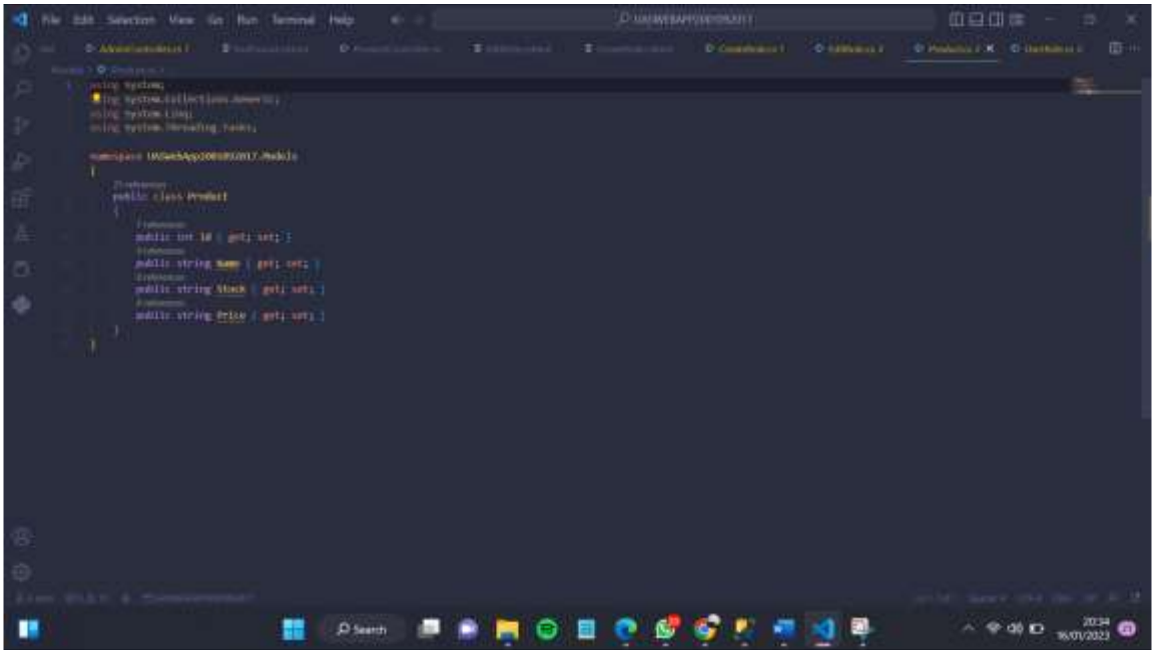
```
using System;
using System.Collections.Generic;
using System.ComponentModel.DataAnnotations;
using System.Linq;
using System.Threading.Tasks;

namespace UASWEBAPP2001092017.Models
{
    public class CreateRole
    {
        [Required]
        [Display(Name = "Role")]
        public string RoleName { get; set; }
    }
}
```

2. EditRole.cs



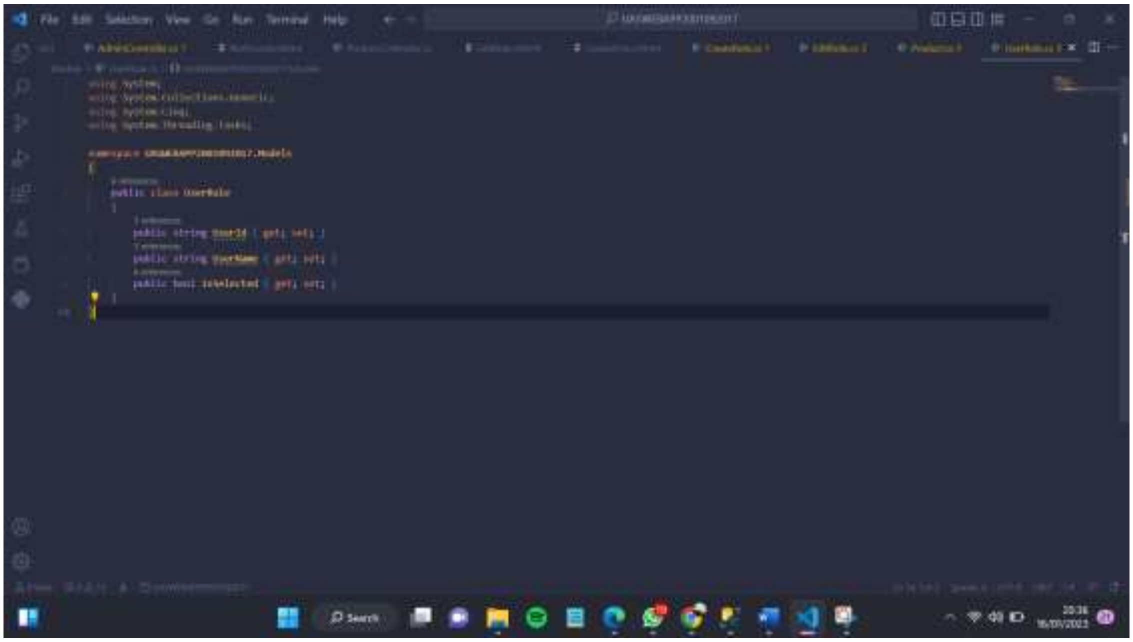
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;

namespace UASWebApp2001092017.Models
{
    public class EditRole
    {
        public EditRole()
        {
            Users = new List<string>();
        }
        public string Id { get; set; }
        public string RoleName { get; set; }
        public List<string> Users { get; set; }
    }
}
```

3. Product.cs



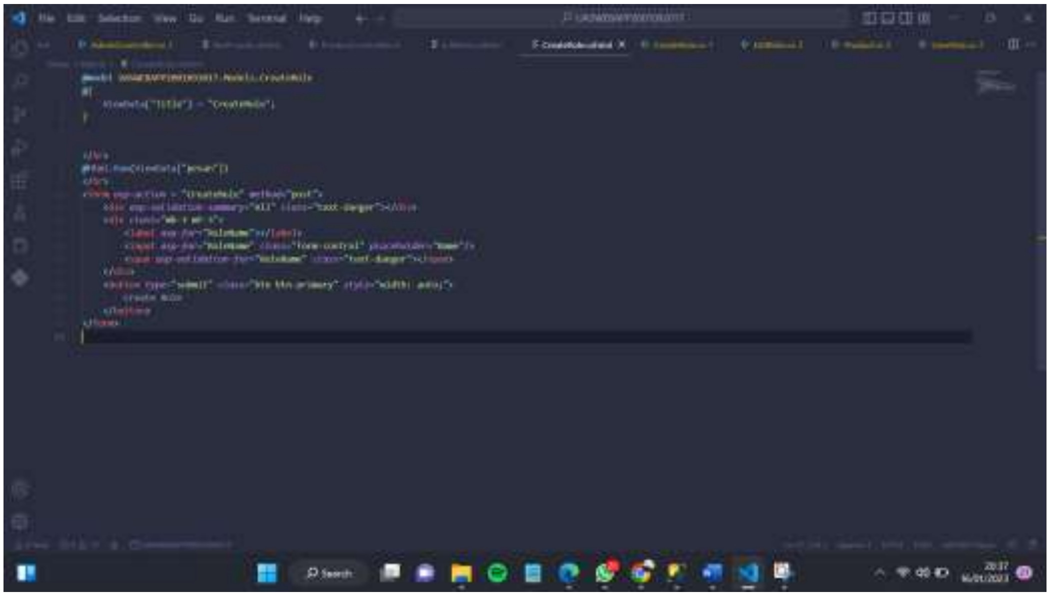
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;

namespace UASWebApp2001092017.Models
{
    public class Product
    {
        public int Id { get; set; }
        public string Name { get; set; }
        public string Stock { get; set; }
        public string Price { get; set; }
    }
}
```

4. UserRole.cs



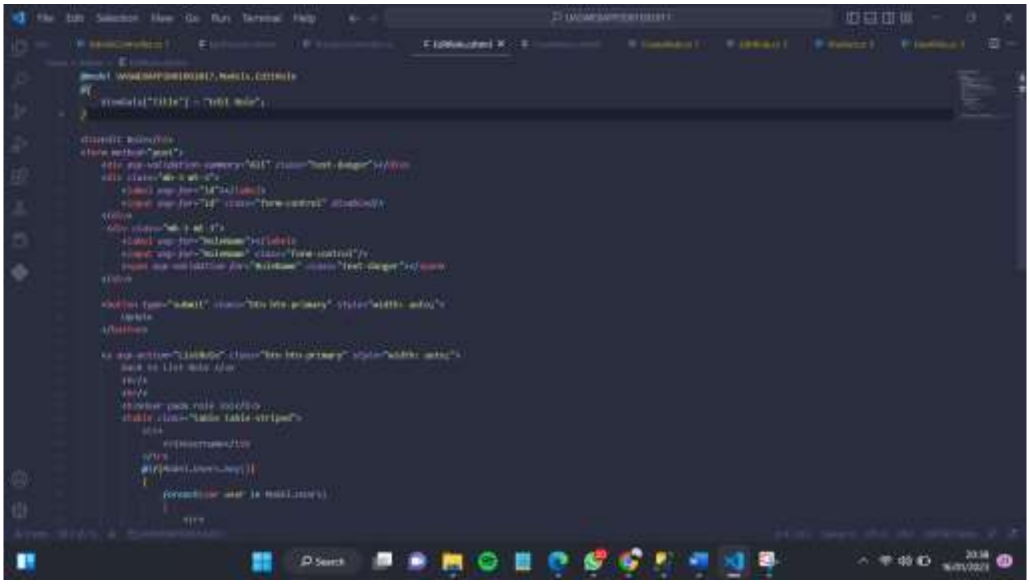
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;

namespace [illegible].Models
{
    public class UserRole
    {
        public string UserId { get; set; }
        public string UserName { get; set; }
        public bool IsSelected { get; set; }
    }
}
```

- Views
  1. Admin
- CreateRole.cshtml

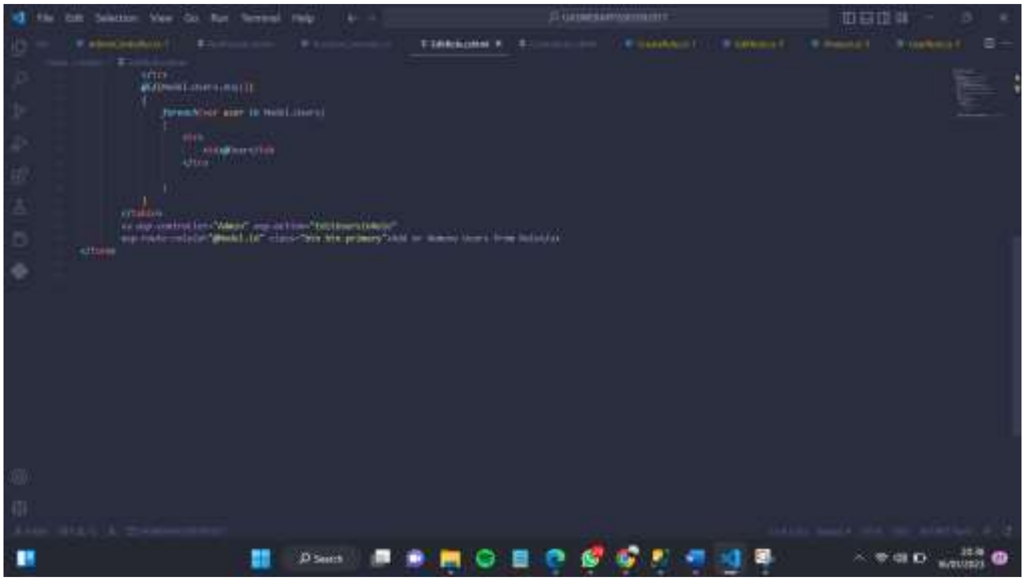


```
@model [illegible].Models.CreateRole
@{
    ViewData["Title"] = "CreateRole";
}


<br/>
@Html.Raw(ViewData["pesan"])
<br/>
<form asp-action = "CreateRole" method="post">
    <div asp-validation-summary="All" class="text-danger"></div>
    <div class="mb-3 mt-3">
        <label asp-for="RoleName"></label>
        <input asp-for="RoleName" class="form-control" placeholder="Name"/>
        <span asp-validation-for="RoleName" class="text-danger"></span>
    </div>
    <button type="submit" class="btn btn-primary" style="width: auto;">
        Create Role
    </button>
</form>
```

- EditRole.cshtml

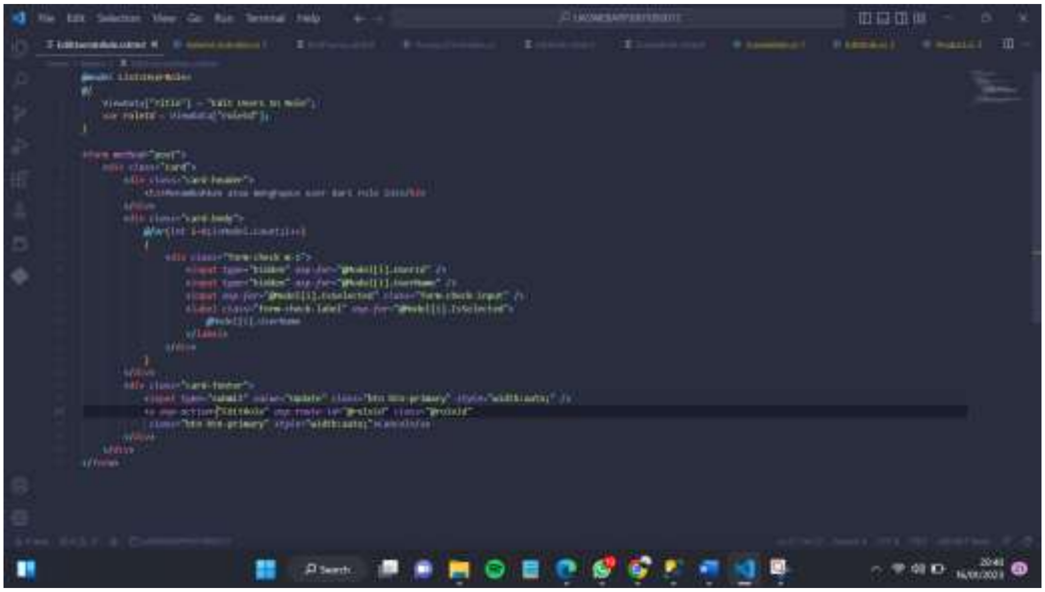


```
@model [illegible].Models.EditRole
@{
    ViewData["Title"] = "Edit Role";
}

<h1>Edit Role</h1>
<form method="post">
    <div asp-validation-summary="All" class="text-danger"></div>
    <div class="mb-3 mt-3">
        <label asp-for="Id"></label>
        <input asp-for="Id" class="form-control" disabled/>
    </div>
     <div class="mb-3 mt-3">
        <label asp-for="RoleName"></label>
        <input asp-for="RoleName" class="form-control"/>
        <span asp-validation-for="RoleName" class="text-danger"></span>
    </div>

    <button type="submit" class="btn btn-primary" style="width: auto;">
        Update
    </button>

    <a asp-action="ListRole" class="btn btn-primary" style="width: auto;">
        Back to List Role </a>
        <br/>
        <br/>
        <h3>User pada role ini</h3>
        <table class="table table-striped">
            <tr>
                <th>Username</th>
            </tr>
            @if(Model.Users.Any())
            {
                foreach(var user in Model.Users)
                {
                    <tr>
```



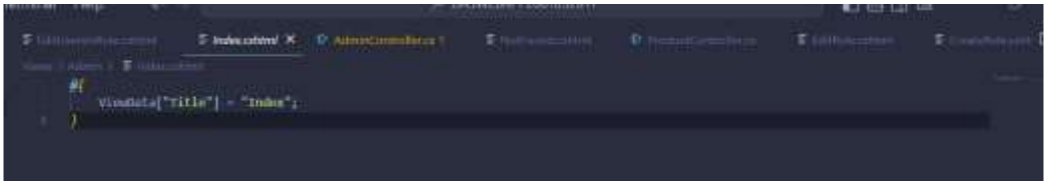
```
            </tr>
            @if(Model.Users.Any())
            {
                foreach(var user in Model.Users)
                {
                    <tr>
                        <td>@user</td>
                    </tr>

                }
            }
        </table>
        <a asp-controller="Admin" asp-action="EditUsersInRole"
        asp-route-roleId="@Model.Id" class="btn btn-primary">Add or Remove Users from Role</a>
</form>
```

- EditUsersInRole.cshtml



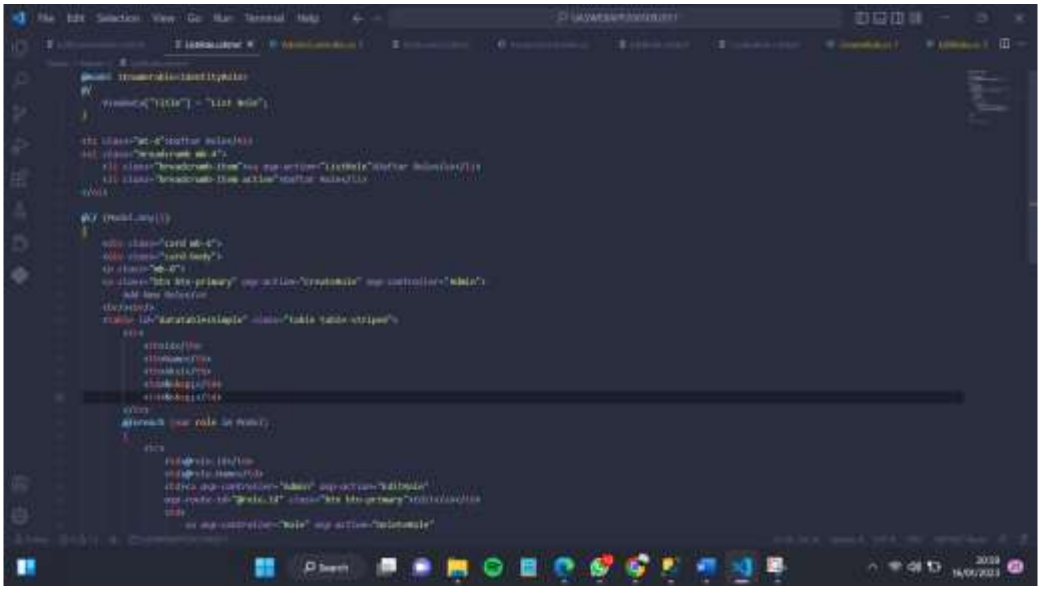
```
@model List<UserRole>
@{
    ViewData["Title"] = "Edit Users In Role";
    var roleId = ViewData["roleId"];
}

<form method="post">
    <div class="card">
        <div class="card-header">
            <h2>Menambahkan atau menghapus user dari role ini</h2>
        </div>
        <div class="card-body">
            @for(int i=0;i<Model.Count;i++)
            {
                <div class="form-check m-1">
                    <input type="hidden" asp-for="@Model[i].UserId" />
                    <input type="hidden" asp-for="@Model[i].UserName" />
                    <input asp-for="@Model[i].IsSelected" class="form-check-input" />
                    <label class="form-check-label" asp-for="@Model[i].IsSelected">
                        @Model[i].UserName
                    </label>
                </div>
            }
        </div>
        <div class="card-footer">
            <input type="submit" value="Update" class="btn btn-primary" style="width:auto;" />
            <a asp-action="EditRole" asp-route-id="@roleId" class="@roleId"
            class="btn btn-primary" style="width:auto;">Cancel</a>
        </div>
    </div>
</form>
```

- Index.cshtml

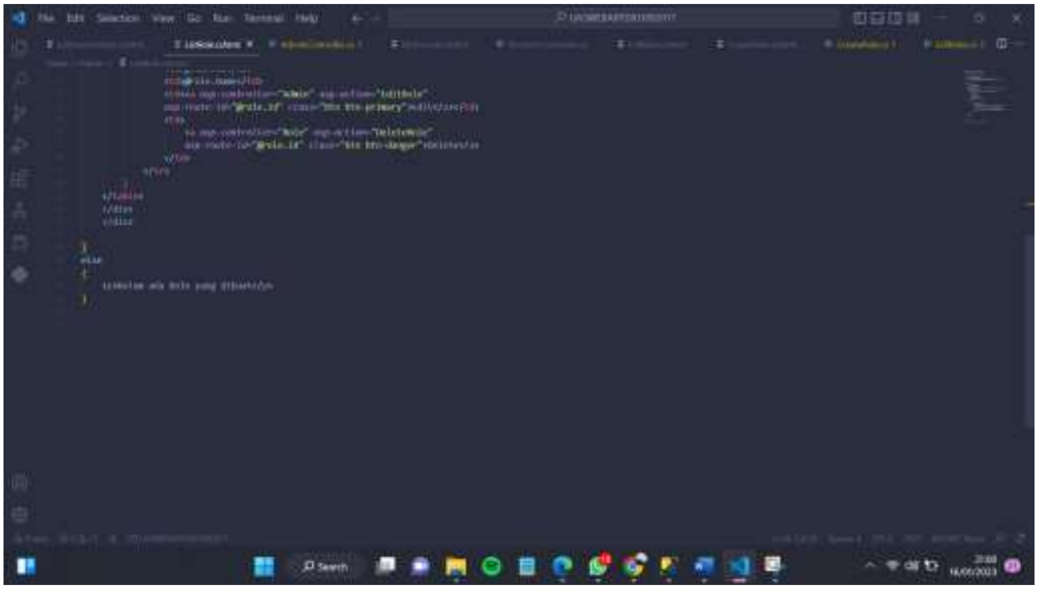


```
@{
    ViewData["Title"] = "Index";
}
```

- ListRole.cshtml



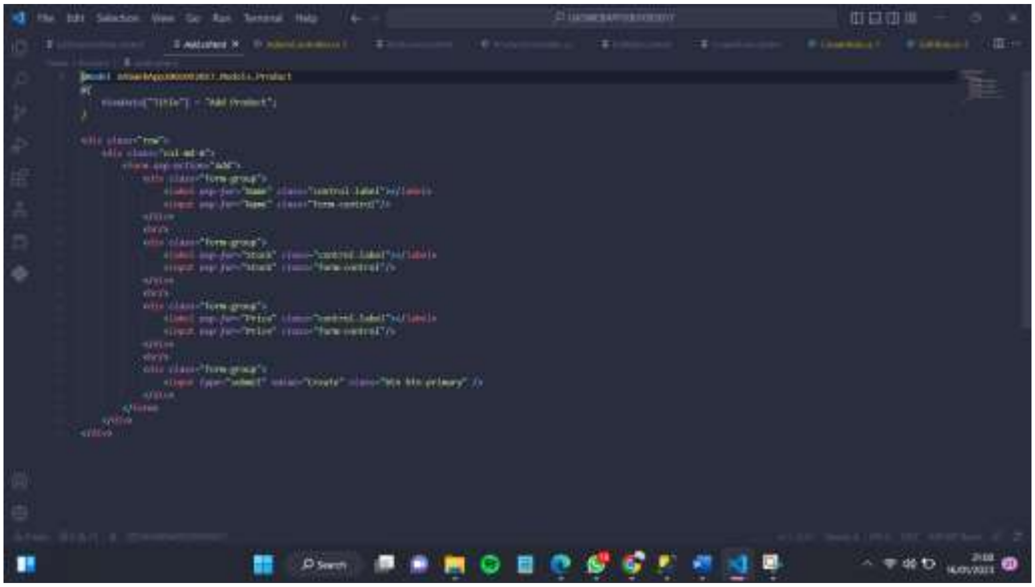
```
@model IEnumerable<IdentityRole>
@{
    ViewData["Title"] = "List Role";
}

<h1 class="mt-4">Daftar Role</h1>
<ol class="breadcrumb mb-4">
    <li class="breadcrumb-item"><a asp-action="ListRole">Daftar Role</a></li>
    <li class="breadcrumb-item active">Daftar Role</li>
</ol>

@if (Model.Any())
{
    <div class="card mb-4">
    <div class="card-body">
    <p class="mb-4">
    <a class="btn btn-primary" asp-action="CreateRole" asp-controller="Admin">
        Add New Role</a>
    </p></div>
    <table id="datatablesSimple" class="table table-striped">
        <tr>
            <th>Id</th>
            <th>Name</th>
            <th>Edit</th>
            <th>Hapus</th>
            <th>Hapus</th>
        </tr>
        @foreach (var role in Model)
        {
            <tr>
                <td>@role.Id</td>
                <td>@role.Name</td>
                <td><a asp-controller="Admin" asp-action="EditRole"
                asp-route-id="@role.Id" class="btn btn-primary">Edit</a></td>
                <td>
                    <a asp-controller="Role" asp-action="DeleteRole"
```



```
            <td>@role.Name</td>
            <td><a asp-controller="Admin" asp-action="EditRole"
            asp-route-id="@role.Id" class="btn btn-primary">Edit</a></td>
            <td>
                <a asp-controller="Role" asp-action="DeleteRole"
                asp-route-id="@role.Id" class="btn btn-danger">Delete</a>
            </td>
        </tr>
        }
    </tbody>
    </table>
    </div>
}
else
{
    <h4>Belum ada Role yang dibuat</h4>
}
```

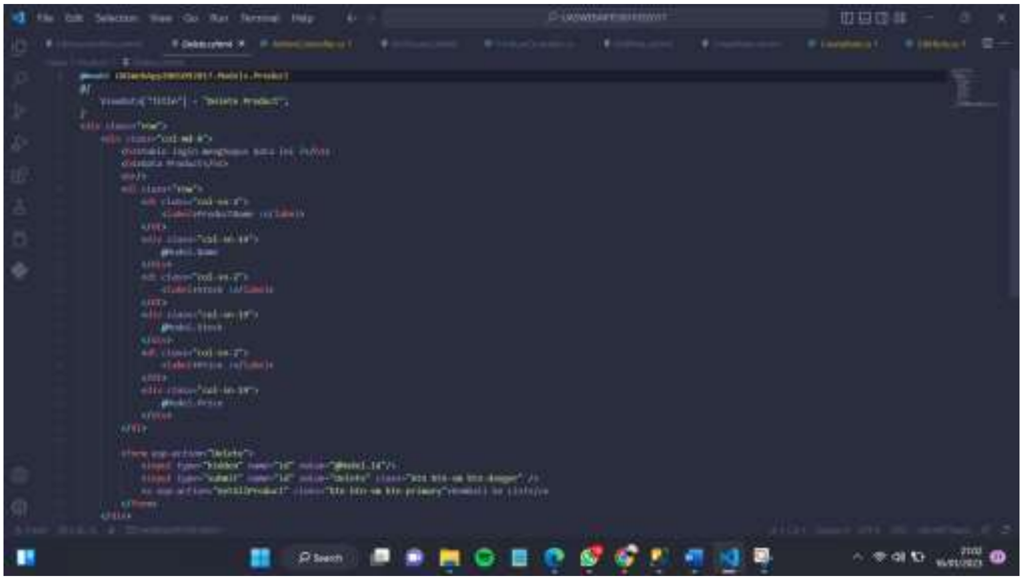
2. Product

- Add.cshtml



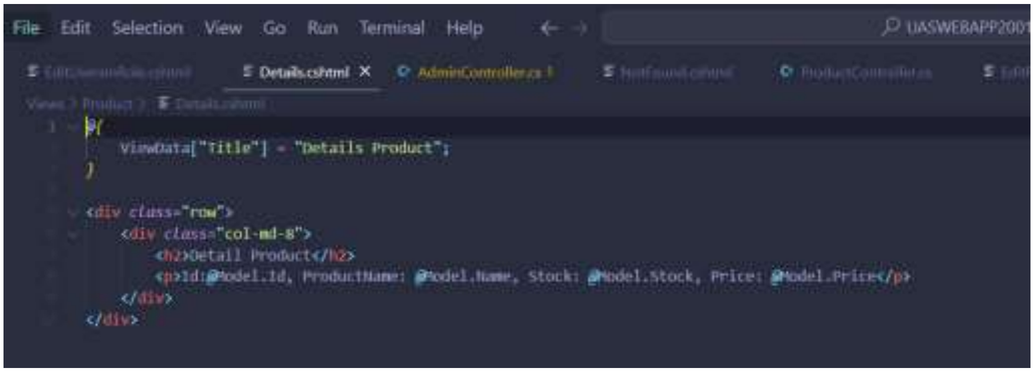
```
@model [illegible].Models.Product
@{
    ViewData["Title"] = "Add Product";
}

<div class="row">
    <div class="col-md-4">
        <form asp-action="Add">
            <div class="form-group">
                <label asp-for="Name" class="control-label"></label>
                <input asp-for="Name" class="form-control"/>
            </div>
            <br/>
            <div class="form-group">
                <label asp-for="Stock" class="control-label"></label>
                <input asp-for="Stock" class="form-control"/>
            </div>
            <br/>
            <div class="form-group">
                <label asp-for="Price" class="control-label"></label>
                <input asp-for="Price" class="form-control"/>
            </div>
            <br/>
            <div class="form-group">
                <input type="submit" value="Create" class="btn btn-primary" />
            </div>
        </form>
    </div>
</div>
```

- Delete.cshtml



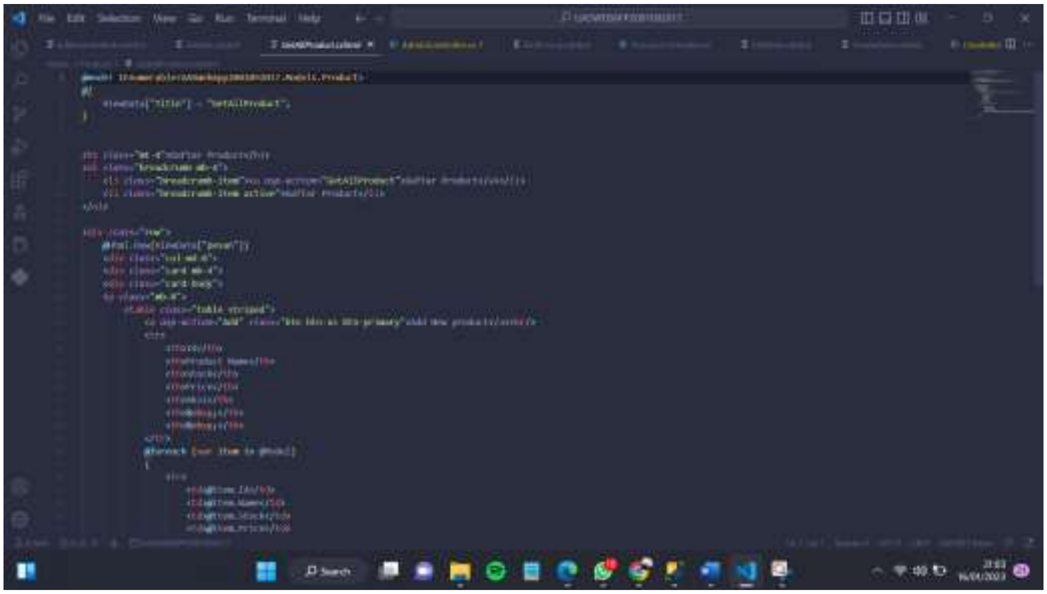
```
@model UASWebApp2001[illegible]2017.Models.Product
@{
    ViewData["Title"] = "Delete Product";
}
<div class="row">
    <div class="col-md-8">
        <h3>Apakah ingin menghapus data ini ?</h3>
        <h4>Data Product</h4>
        <hr />
        <dl class="row">
            <dt class="col-sm-2">
                <label>ProductName :</label>
            </dt>
            <dd class="col-sm-10">
                @Model.Name
            </dd>
            <dt class="col-sm-2">
                <label>Stock :</label>
            </dt>
            <dd class="col-sm-10">
                @Model.Stock
            </dd>
            <dt class="col-sm-2">
                <label>Price :</label>
            </dt>
            <dd class="col-sm-10">
                @Model.Price
            </dd>
        </dl>

        <form asp-action="Delete">
            <input type="hidden" name="id" value="@Model.Id"/>
            <input type="submit" name="id" value="Delete" class="btn btn-sm btn-danger" />
            <a asp-action="GetAllProduct" class="btn btn-sm btn-primary">Kembali ke List</a>
        </form>
    </div>
```

- Details.cshtml

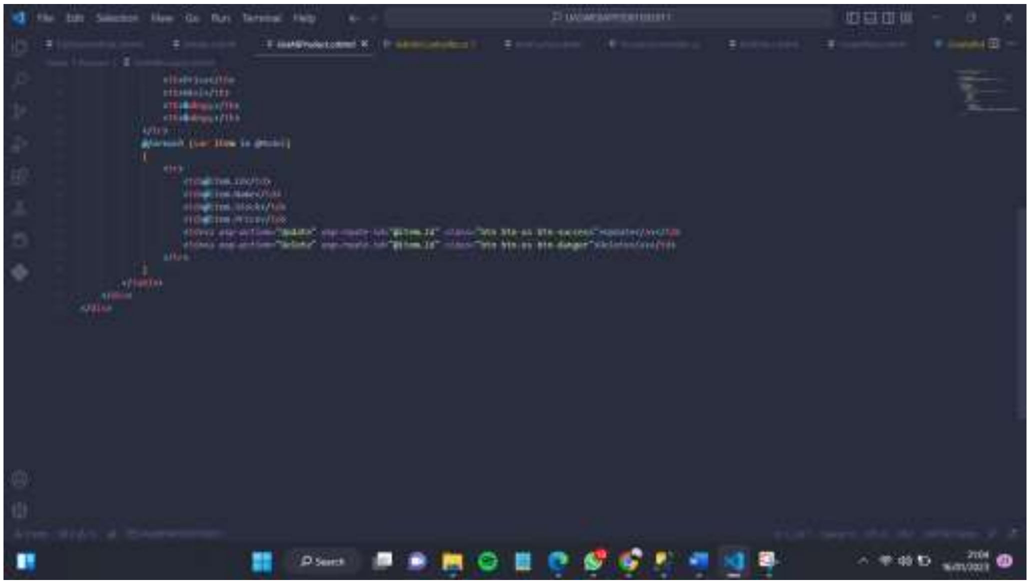

File Edit Selection View Go Run Terminal Help
UASWEBAPP2001
Details.cshtml
AdminController.cs 1
ProductController.cs
Views > Product > Details.cshtml

```
@{
    ViewData["Title"] = "Details Product";
}

<div class="row">
    <div class="col-md-8">
        <h2>Detail Product</h2>
        <p>Id:@Model.Id, ProductName: @Model.Name, Stock: @Model.Stock, Price: @Model.Price</p>
    </div>
</div>
```

- GetAllProduct.cshtml

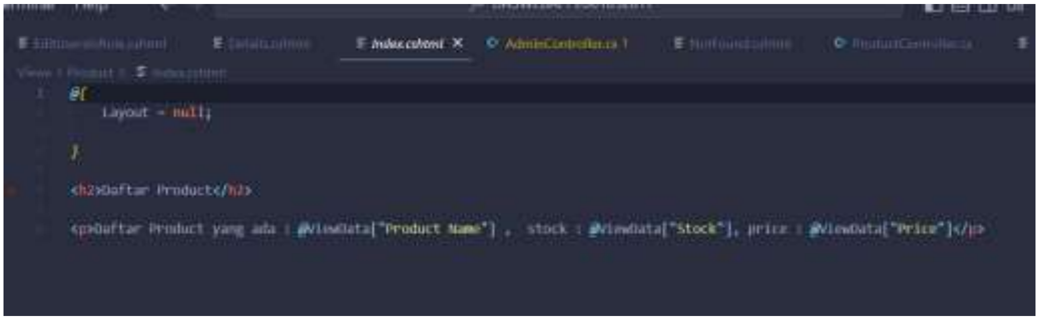


```
@model IEnumerable<UASWebApp2001[illegible]2017.Models.Product>
@{
    ViewData["Title"] = "GetAllProduct";
}


<h1 class="mt-4">Daftar Products</h1>
<ol class="breadcrumb mb-4">
    <li class="breadcrumb-item"><a asp-action="GetAllProduct">Daftar Products</a></li>
    <li class="breadcrumb-item active">Daftar Products</li>
</ol>

<div class="row">
    @Html.Raw(ViewData["pesan"])
    <div class="col-md-8">
    <div class="card mb-4">
    <div class="card-body">
    <p class="mb-0">
        <table class="table striped">
            <a asp-action="Add" class="btn btn-sm btn-primary">Add New products</a><br />
            <tr>
                <th>Id</th>
                <th>Product Name</th>
                <th>Stock</th>
                <th>Price</th>
                <th>Aksi</th>
                <th>&nbsp;</th>
                <th>&nbsp;</th>
            </tr>
            @foreach (var item in @Model)
            {
                <tr>
                    <td>@item.Id</td>
                    <td>@item.Name</td>
                    <td>@item.Stock</td>
                    <td>@item.Price</td>
```



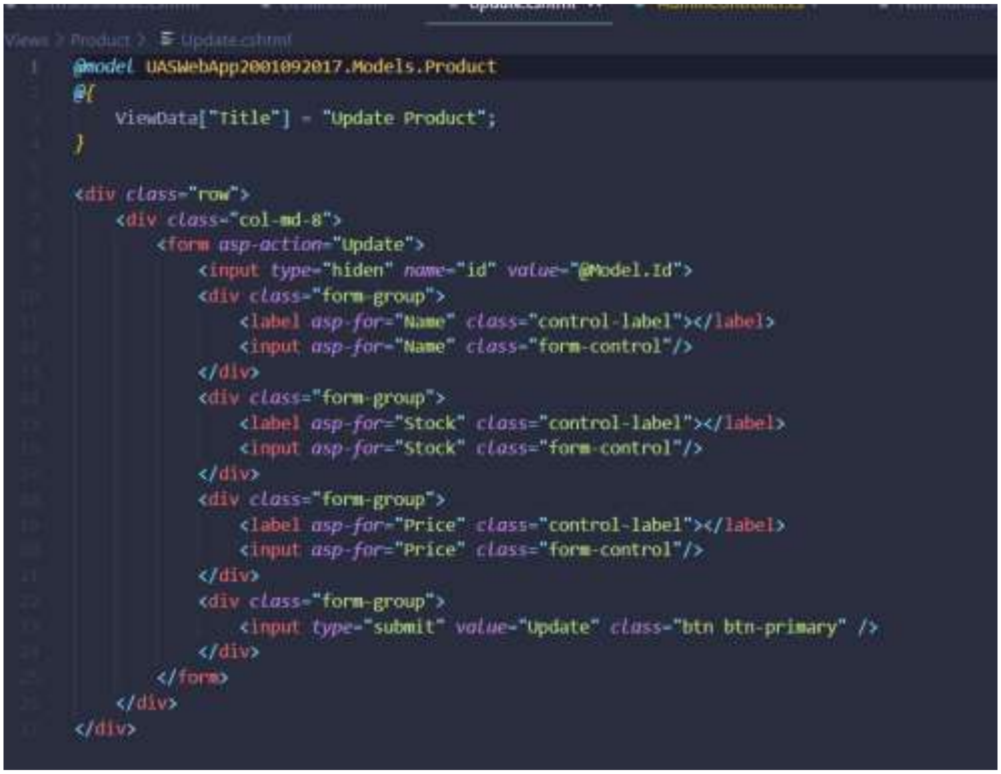
```
<th>Price</th>
<th>Aksi</th>
<th>[illegible]</th>
<th>[illegible]</th>
</tr>
@foreach (var item in @Model)
{
    <tr>
        <td>@item.Id</td>
        <td>@item.Name</td>
        <td>@item.Stock</td>
        <td>@item.Price</td>
        <td><a asp-action="Update" asp-route-id="@item.Id" class="btn btn-xs btn-success">Update</a></td>
        <td><a asp-action="Delete" asp-route-id="@item.Id" class="btn btn-xs btn-danger">Delete</a></td>
    </tr>
}
</table>
</div>
</div>
```

- Index.cshtml



```
@{
    Layout = null;

}

<h2>Daftar Product</h2>

<p>Daftar Product yang ada : @ViewData["Product Name"] ,  stock : @ViewData["Stock"], price : @ViewData["Price"]</p>
```

- Update.cshtml

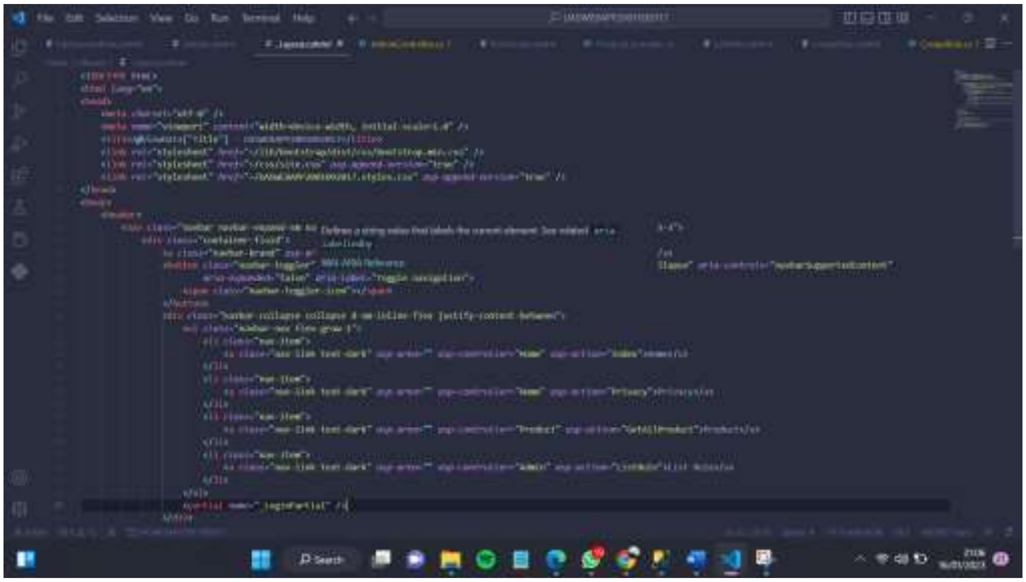


Views > Product > Update.cshtml

```
@model UASWebApp2001092017.Models.Product
@{
    ViewData["Title"] = "Update Product";
}

<div class="row">
    <div class="col-md-8">
        <form asp-action="Update">
            <input type="hiden" name="id" value="@Model.Id">
            <div class="form-group">
                <label asp-for="Name" class="control-label"></label>
                <input asp-for="Name" class="form-control"/>
            </div>
            <div class="form-group">
                <label asp-for="Stock" class="control-label"></label>
                <input asp-for="Stock" class="form-control"/>
            </div>
            <div class="form-group">
                <label asp-for="Price" class="control-label"></label>
                <input asp-for="Price" class="form-control"/>
            </div>
            <div class="form-group">
                <input type="submit" value="Update" class="btn btn-primary" />
            </div>
        </form>
    </div>
</div>
```

3. Shared

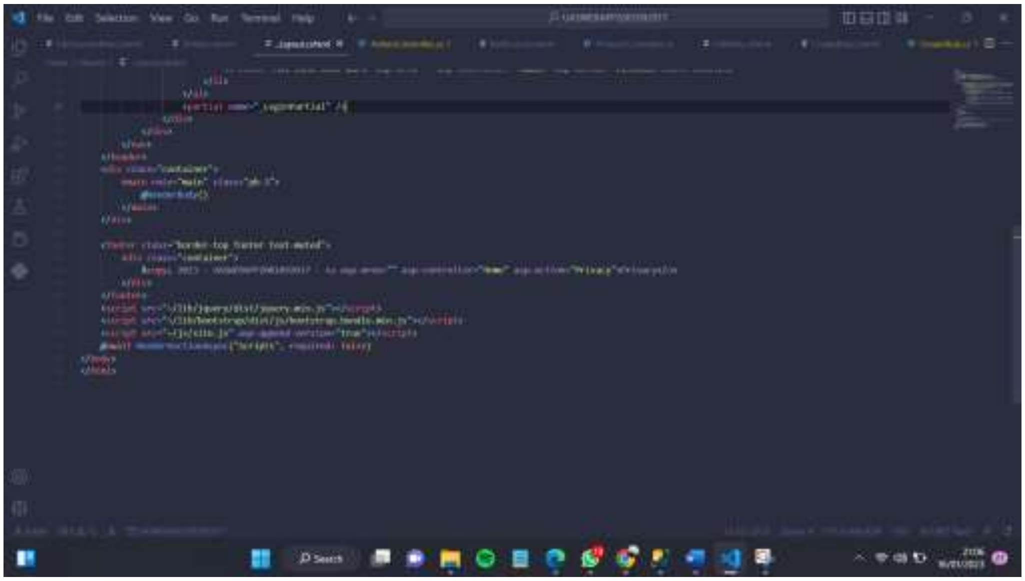
- _Layout.cshtml



```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>@ViewData["Title"] - UASWebApp2001092017</title>
    <link rel="stylesheet" href="~/lib/bootstrap/dist/css/bootstrap.min.css" />
    <link rel="stylesheet" href="~/css/site.css" asp-append-version="true" />
    <link rel="stylesheet" href="~/UASWebApp2001092017.styles.css" asp-append-version="true" />
</head>
<body>
    <header>
        <nav class="navbar navbar-expand-sm na                                         3-4">
            <div class="container-fluid">
                <a class="navbar-brand" asp-ar                                         /a>
                <button class="navbar-toggler"                                         llapse" aria-controls="navbarSupportedContent"
                        aria-expanded="false" aria-label="Toggle navigation">
                    <span class="navbar-toggler-icon"></span>
                </button>
                <div class="navbar-collapse collapse d-sm-inline-flex justify-content-between">
                    <ul class="navbar-nav flex-grow-1">
                        <li class="nav-item">
                            <a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-action="Index">Home</a>
                        </li>
                        <li class="nav-item">
                            <a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-action="Privacy">Privacy</a>
                        </li>
                        <li class="nav-item">
                            <a class="nav-link text-dark" asp-area="" asp-controller="Product" asp-action="GetAllProduct">Products</a>
                        </li>
                        <li class="nav-item">
                            <a class="nav-link text-dark" asp-area="" asp-controller="Admin" asp-action="ListAdmin">List Admin</a>
                        </li>
                    </ul>
                    <partial name="_LoginPartial" />
                </div>
```

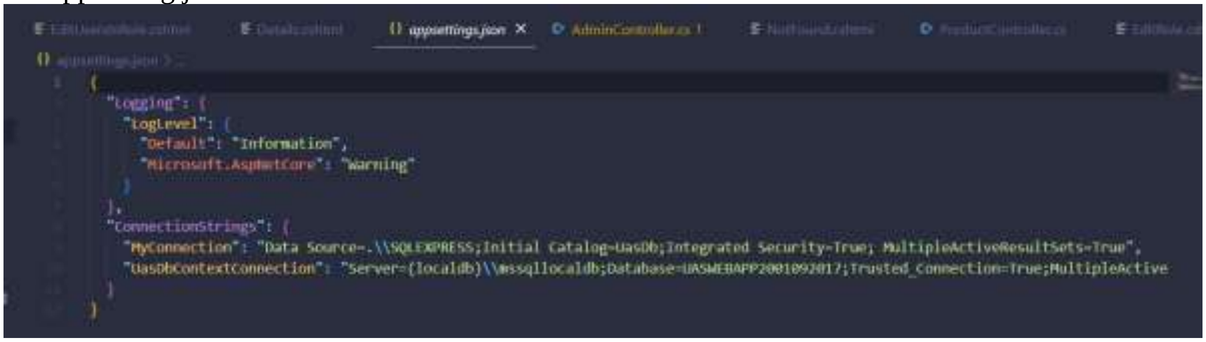
Defines a string value that labels the current element. See related aria-labelledby

MDN ARIA Reference



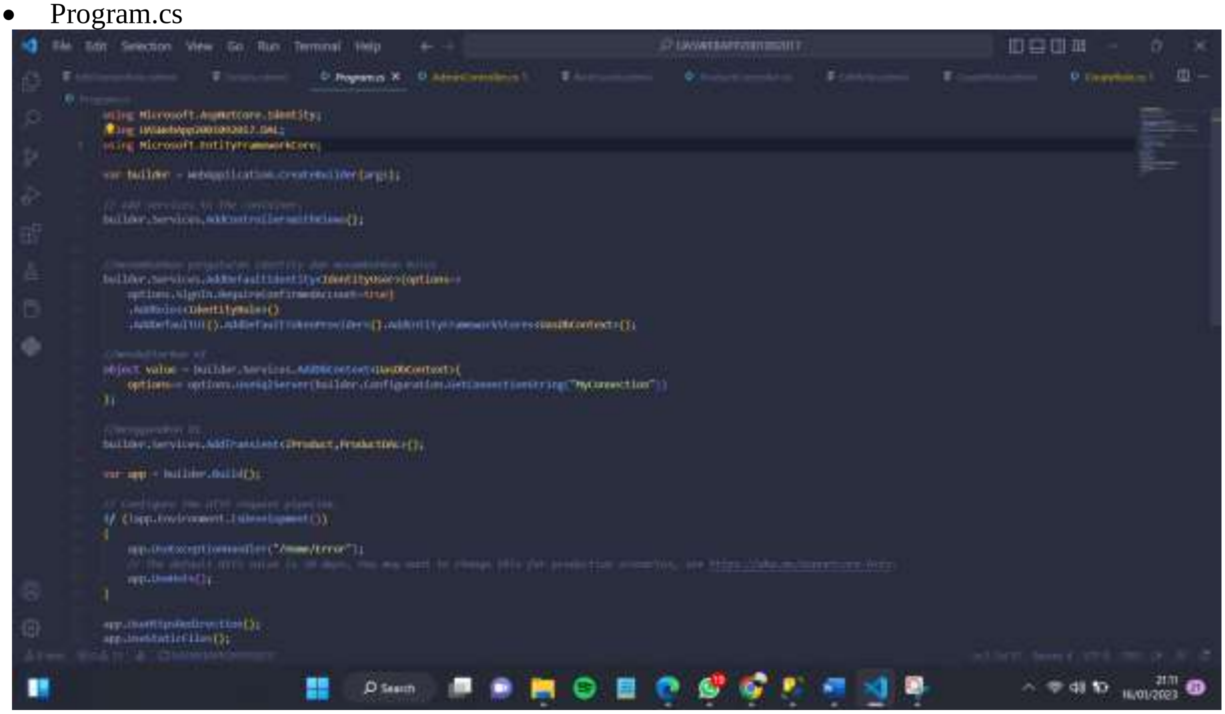
```
[illegible]
                    </li>
                </ul>
                <partial name="_LoginPartial" />
            </div>
        </div>
    </nav>
</header>
<div class="container">
    <main role="main" class="pb-3">
        @RenderBody()
    </main>
</div>

<footer class="border-top footer text-muted">
    <div class="container">
        &copy; 2023 - UASWEBAPP2001092017 - <a asp-area="" asp-controller="Home" asp-action="Privacy">Privacy</a>
    </div>
</footer>
<script src="~/lib/jquery/dist/jquery.min.js"></script>
<script src="~/lib/bootstrap/dist/js/bootstrap.bundle.min.js"></script>
<script src="~/js/site.js" asp-append-version="true"></script>
@await RenderSectionAsync("Scripts", required: false)
</body>
</html>
```

- AppSetting.json



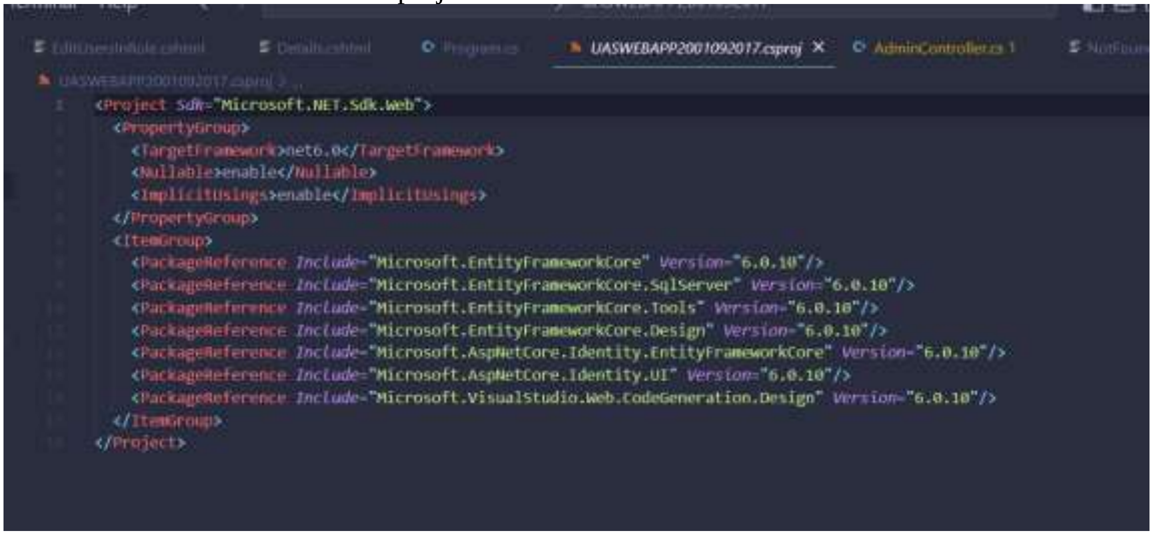
```
{
  "Logging": {
    "LogLevel": {
      "Default": "Information",
      "Microsoft.AspNetCore": "Warning"
    }
  },
  "ConnectionStrings": {
    "MyConnection": "Data Source=.\\SQLEXPRESS;Initial Catalog=UasDb;Integrated Security=True; MultipleActiveResultSets=True",
    "UasDbContextConnection": "Server=(localdb)\\mssqllocaldb;Database=UASWEBAPP2001092017;Trusted_Connection=True;MultipleActive
  }
}
```

- Program.cs



```
using Microsoft.AspNetCore.Identity;
using UASWebApp2001092017.DAL;
using Microsoft.EntityFrameworkCore;

var builder = WebApplication.CreateBuilder(args);

// Add services to the container.
builder.Services.AddControllersWithViews();


[illegible]
builder.Services.AddDefaultIdentity<IdentityUser>(options=>
    options.SignIn.RequireConfirmedAccount=true)
    .AddRoles<IdentityRole>()
    .AddDefaultUI().AddDefaultTokenProviders().AddEntityFrameworkStores<UasDbContext>();

[illegible]
object value = builder.Services.AddDbContext<UasDbContext>(
    options=> options.UseSqlServer(builder.Configuration.GetConnectionString("MyConnection"))
});

[illegible]
builder.Services.AddTransient<IProduct,ProductDAL>();

var app = builder.Build();

// Configure the HTTP request pipeline.
if (!app.Environment.IsDevelopment())
{
    app.UseExceptionHandler("/Home/Error");
    // The default HSTS value is 30 days. You may want to change this for production scenarios, see https://aka.ms/aspnetcore-hsts.
    app.UseHsts();
}

app.UseHttpsRedirection();
app.UseStaticFiles();
```

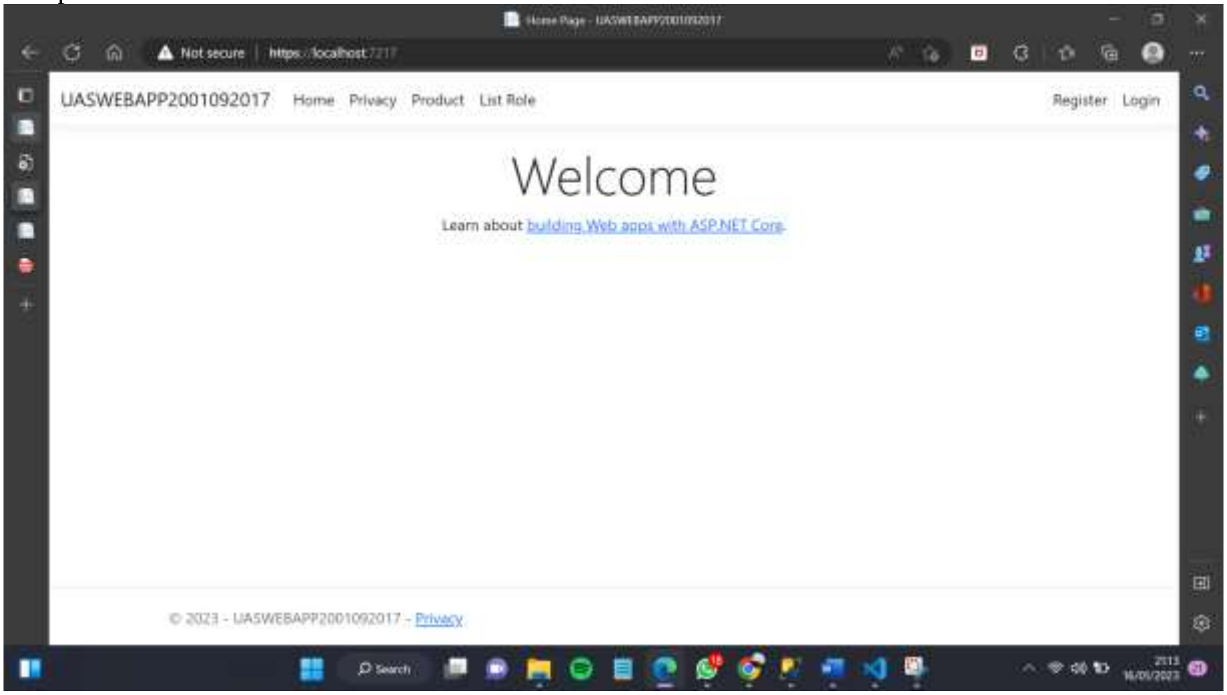
- UASWEBAPP2001092017.csproj



```
<Project Sdk="Microsoft.NET.Sdk.Web">
  <PropertyGroup>
    <TargetFramework>net6.0</TargetFramework>
    <Nullable>enable</Nullable>
    <ImplicitUsings>enable</ImplicitUsings>
  </PropertyGroup>
  <ItemGroup>
    <PackageReference Include="Microsoft.EntityFrameworkCore" Version="6.0.10"/>
    <PackageReference Include="Microsoft.EntityFrameworkCore.SqlServer" Version="6.0.10"/>
    <PackageReference Include="Microsoft.EntityFrameworkCore.Tools" Version="6.0.10"/>
    <PackageReference Include="Microsoft.EntityFrameworkCore.Design" Version="6.0.10"/>
    <PackageReference Include="Microsoft.AspNetCore.Identity.EntityFrameworkCore" Version="6.0.10"/>
    <PackageReference Include="Microsoft.AspNetCore.Identity.UI" Version="6.0.10"/>
    <PackageReference Include="Microsoft.VisualStudio.Web.CodeGeneration.Design" Version="6.0.10"/>
  </ItemGroup>
</Project>
```

B. Hasil

1. Tampilan web



Welcome

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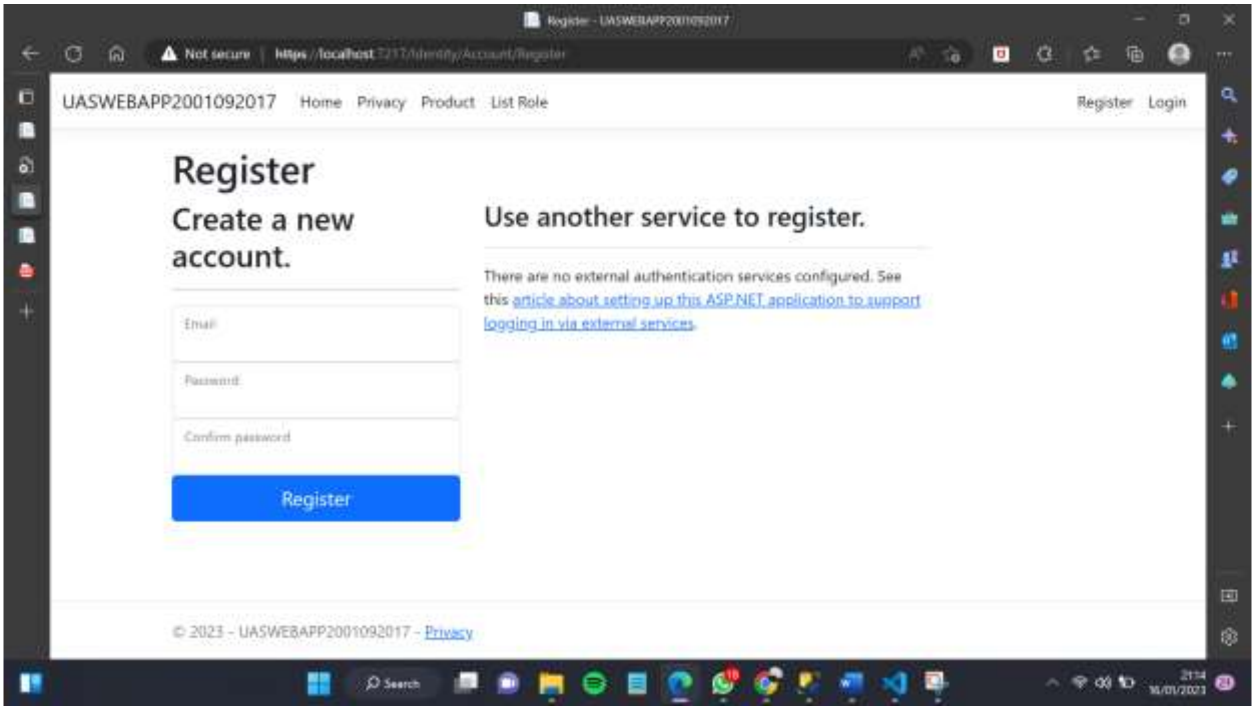
2. Register



Register

Create a new account.

Use another service to register.

There are no external authentication services configured. See this article about setting up this ASP.NET application to support logging in via external services.

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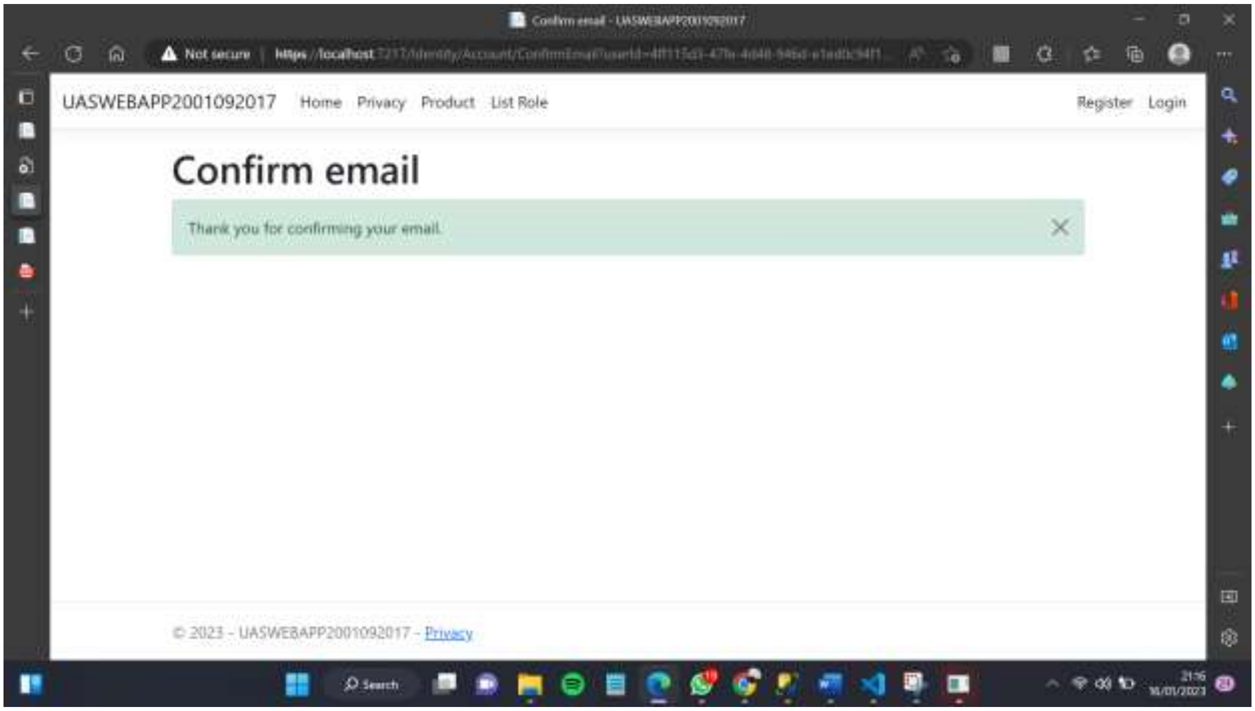
Autentifikasi email


Confirm email - UASWEBAPP2001092017
Not secure
https://localhost:7217/Identity/Account/ConfirmEmail?userId=4ff115d3-47fe-4d48-9d6d-e1edbc94f1...
UASWEBAPP2001092017
Home
Privacy
Product
List Role
Register
Login
Search

Confirm email

Thank you for confirming your email.

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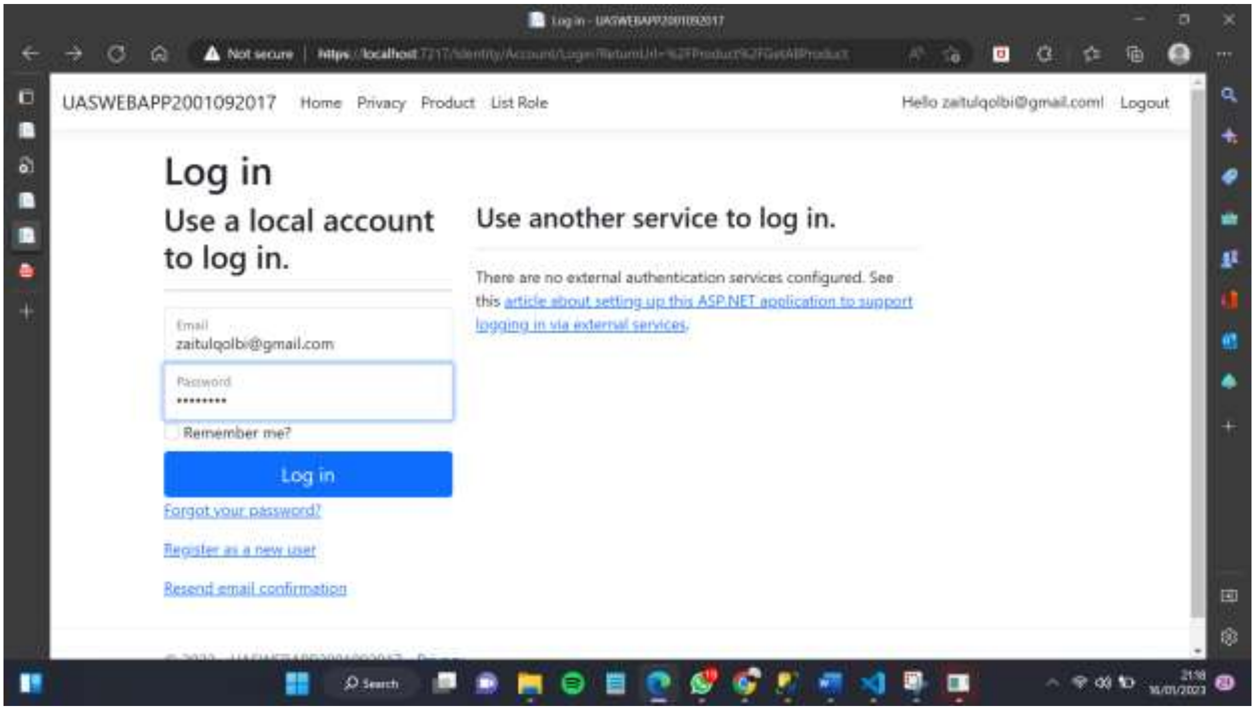
3. Login


Log in - UASWEBAPP2001092017
Not secure
https://localhost:7217/Identity/Account/Login?ReturnUrl=%2FProduct%2FGetAllProduct
UASWEBAPP2001092017
Home
Privacy
Product
List Role
Hello zaitulqolbi@gmail.com!
Logout
Search

Log in

Use a local account to log in.

Email
zaitulqolbi@gmail.com

Password
••••••••

□ Remember me?

Log in

Forgot your password?

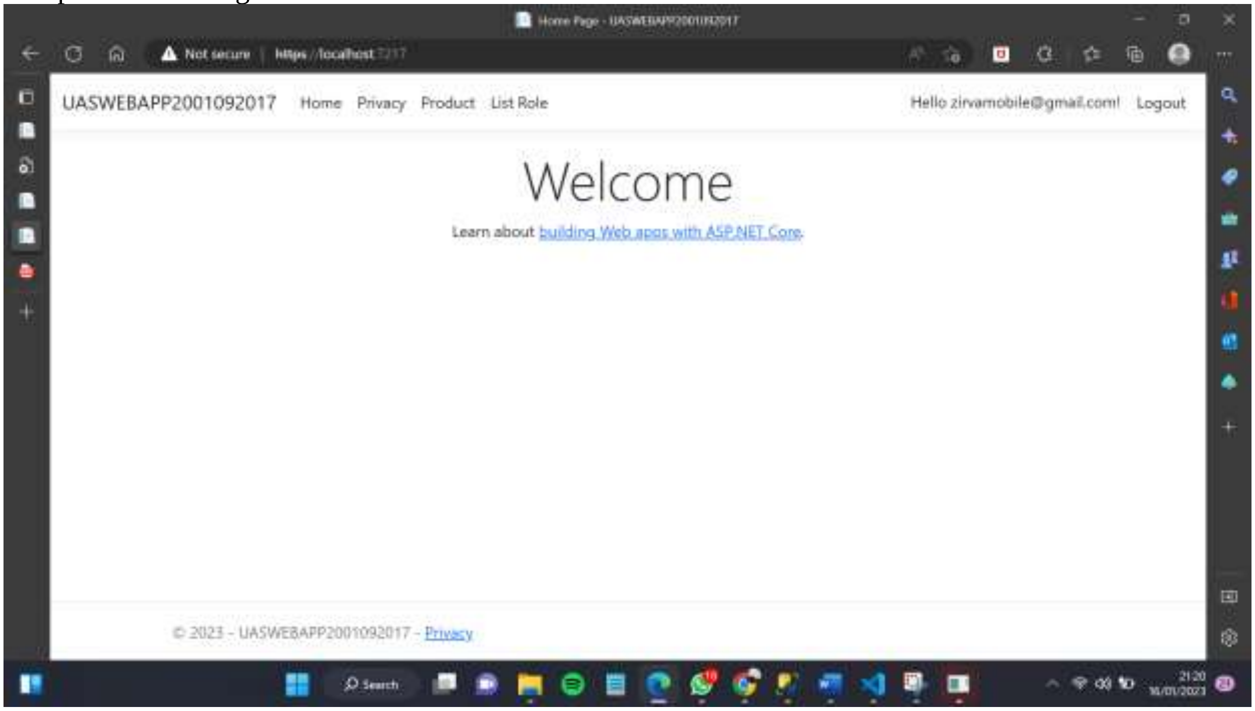
Register as a new user

Resend email confirmation

Use another service to log in.

There are no external authentication services configured. See this article about setting up this ASP.NET application to support logging in via external services.

4. Tampilan setelah login



Welcome

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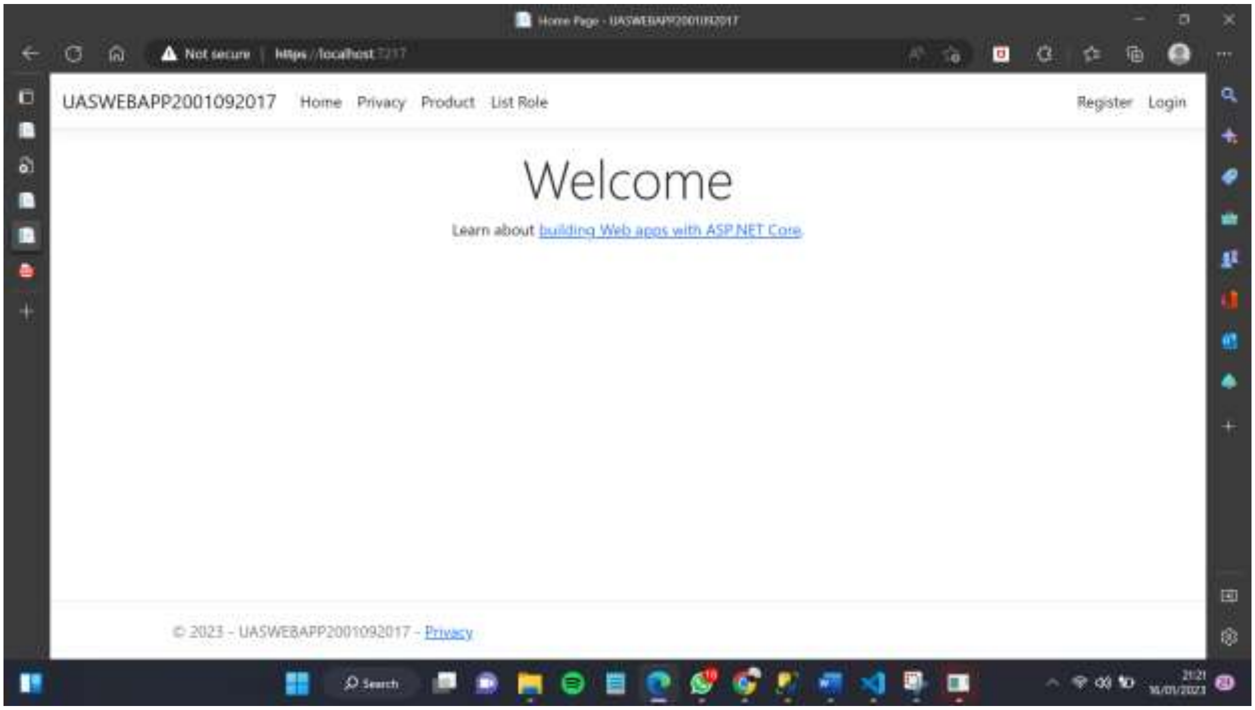
5. Logout



Welcome

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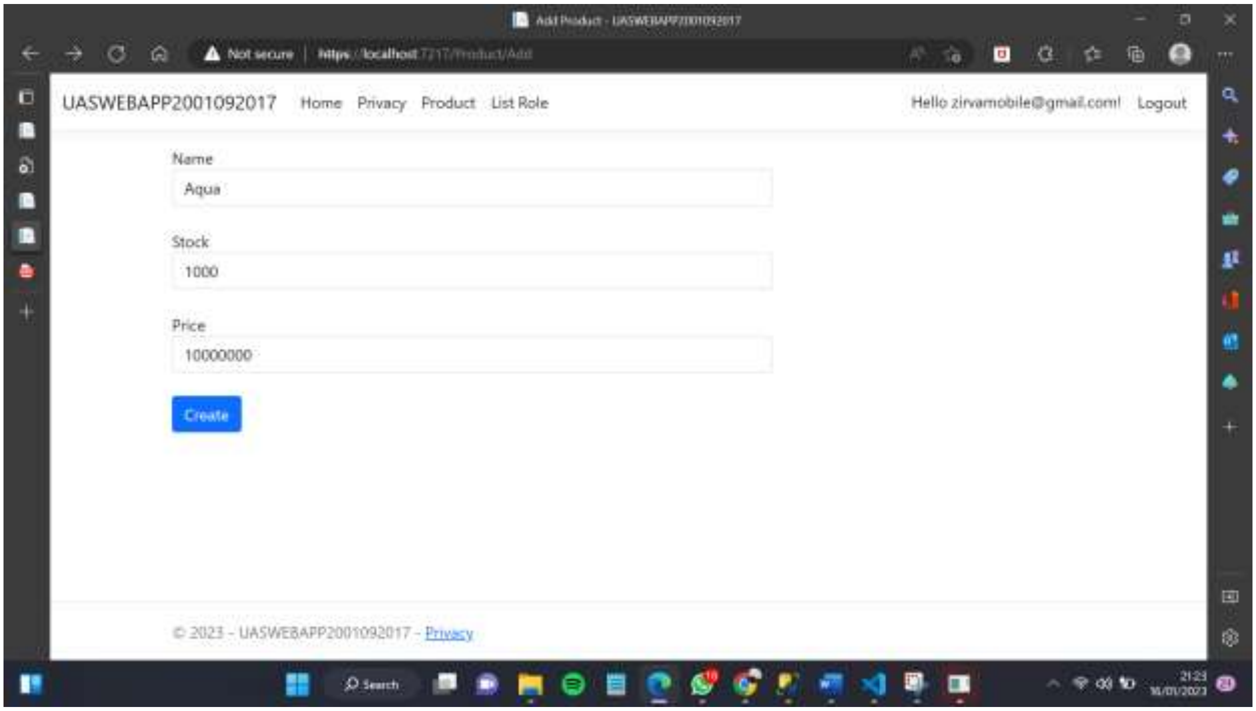
6. Product
   - Create Product


Add Product - UASWEBAPP2001092017
Not secure | https://localhost:7217/Product/Add
UASWEBAPP2001092017
Home
Privacy
Product
List Role
Hello zirvamobile@gmail.com!
Logout
Create
Search
21:23
16/01/2023

Name: Aqua

Stock: 1000

Price: 10000000

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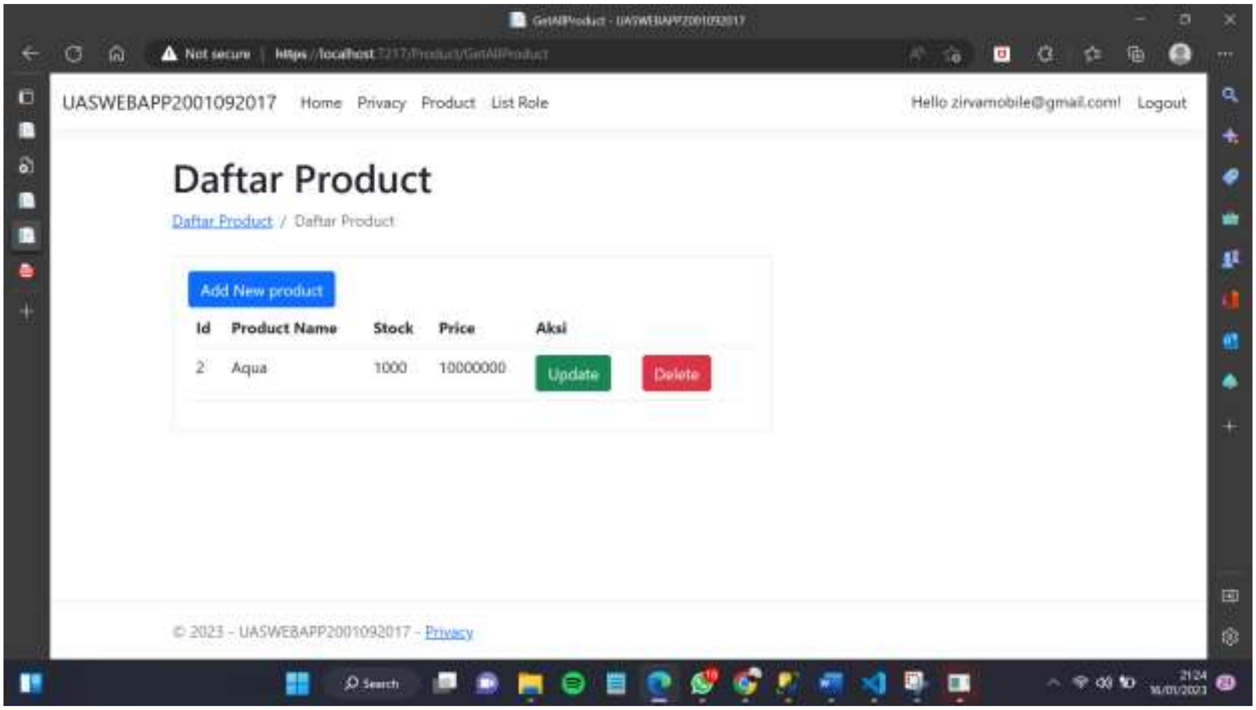
   - List Product



GetAllProduct - UASWEBAPP2001092017

Not secure | https://localhost:7217/Product/GetAllProduct

UASWEBAPP2001092017 Home Privacy Product List Role Hello zirvamobile@gmail.com! Logout

Daftar Product

Daftar Product / Daftar Product

Add New product

Id	Product Name	Stock	Price	Aksi	
2	Aqua	1000	10000000	Update	Delete

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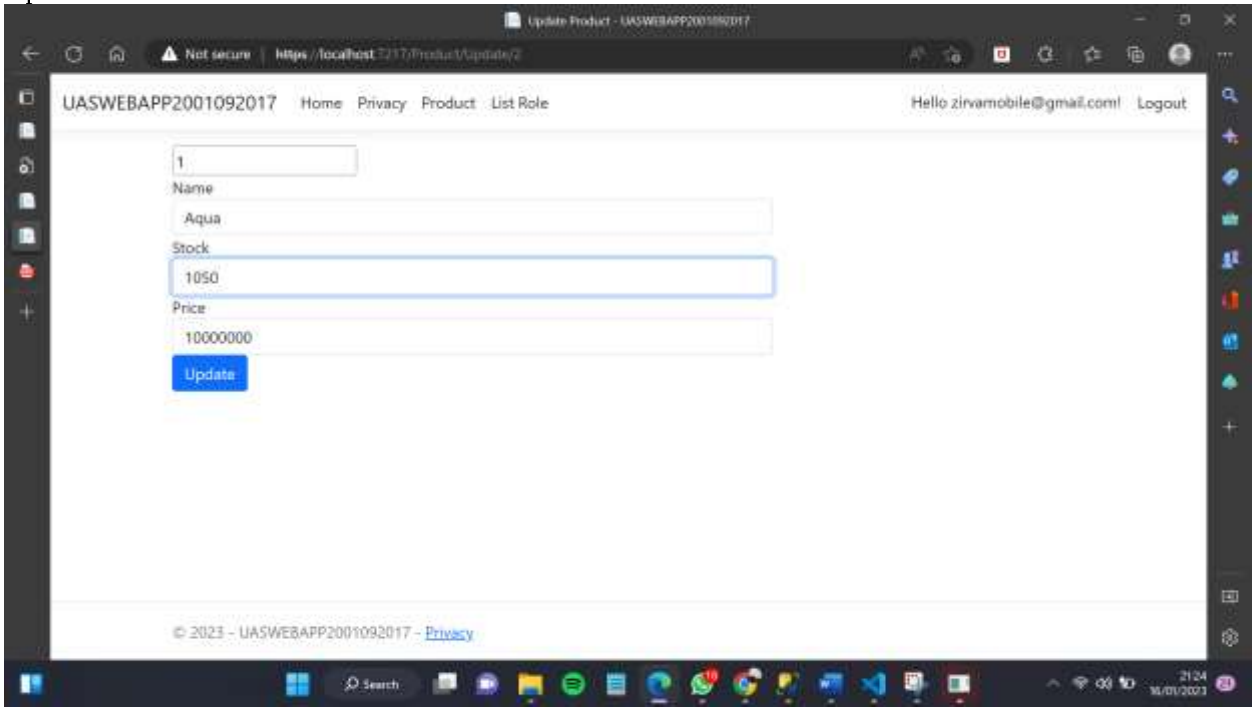
- Update Product



Update Product - UASWEBAPP2001092017

Not secure | https://localhost:7217/Product/Update/2

UASWEBAPP2001092017 Home Privacy Product List Role Hello zirvamobile@gmail.com! Logout

1

Name

Aqua

Stock

1050

Price

10000000

Update

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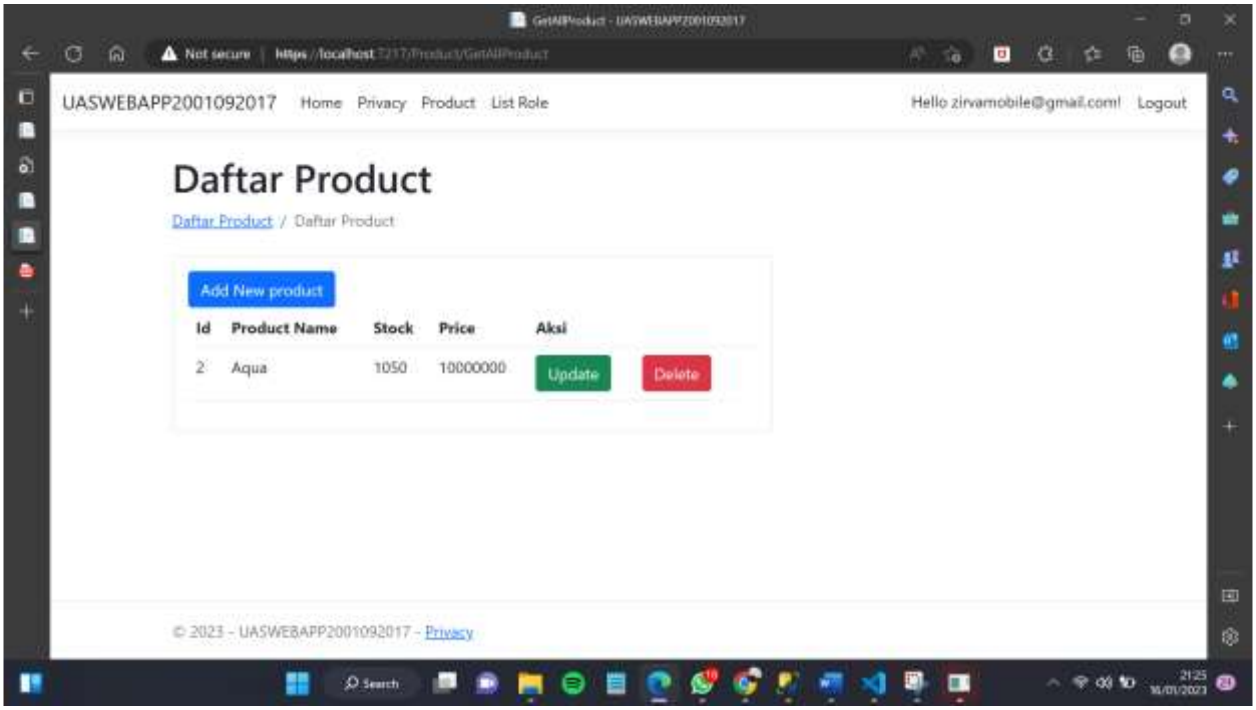
GetAllProduct - UASWEBAPP2001092017
Not secure
https://localhost:7217/Product/GetAllProduct
UASWEBAPP2001092017
Home
Privacy
Product
List Role
Hello zirvamobile@gmail.com!
Logout
Add New product
Update
Delete

Daftar Product

Daftar Product / Daftar Product

Id	Product Name	Stock	Price	Aksi
2	Aqua	1050	10000000	Update Delete

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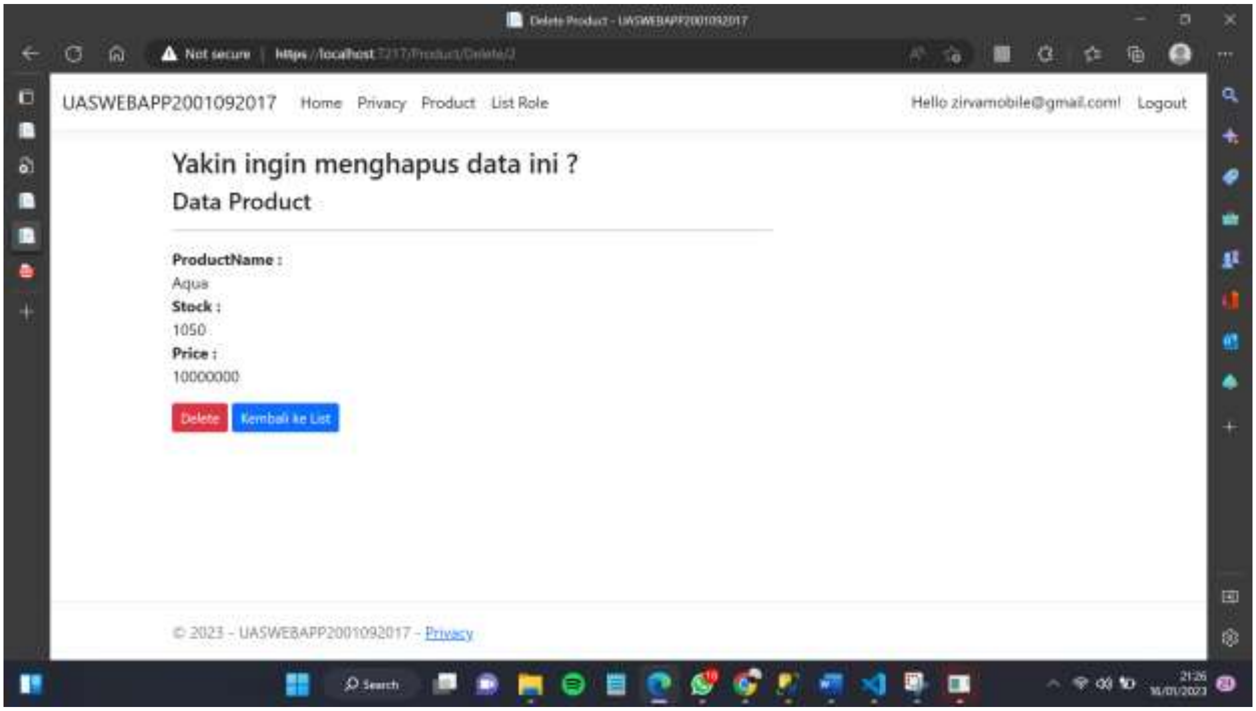
- Delete Product


Delete Product - UASWEBAPP2001092017
Not secure
https://localhost:7217/Product/Delete/2
UASWEBAPP2001092017
Home
Privacy
Product
List Role
Hello zirvamobile@gmail.com!
Logout
Delete
Kembali ke List

Yakin ingin menghapus data ini ?

Data Product

ProductName :
Aqua
Stock :
1050
Price :
10000000

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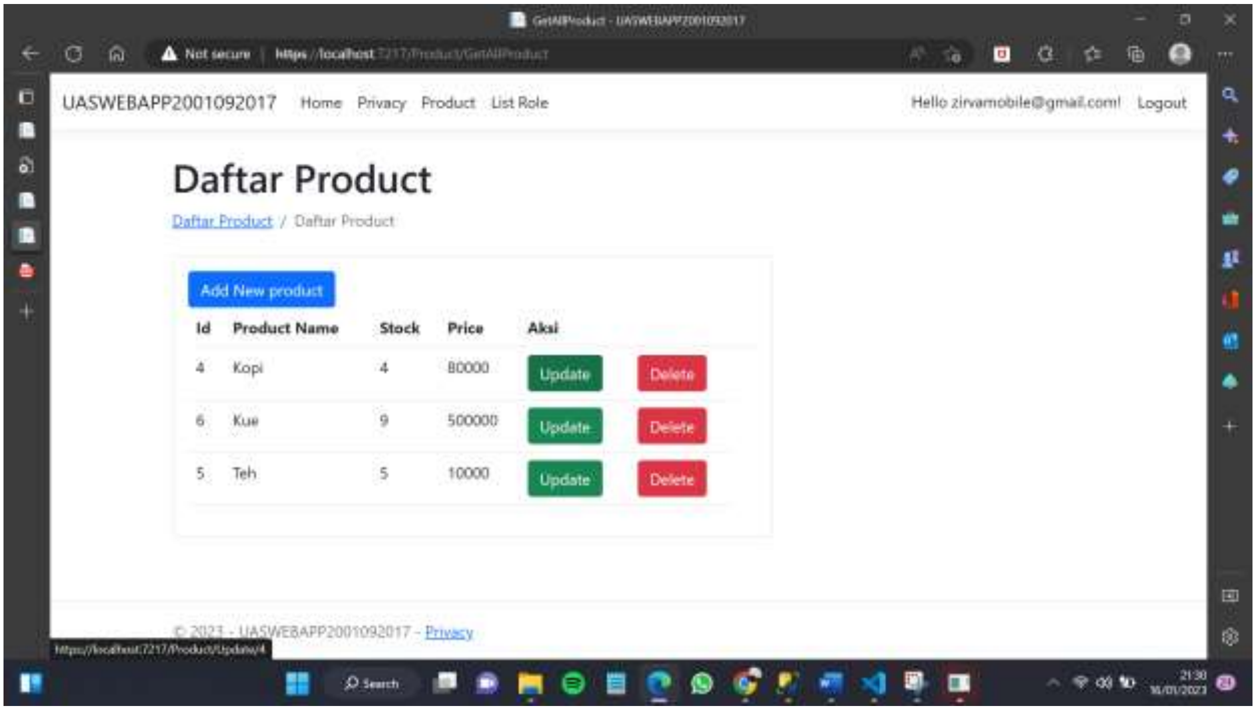

Daftar Product

Daftar Product / Daftar Product

Id	Product Name	Stock	Price	Aksi	
4	Kopi	4	80000	Update	Delete
6	Kue	9	500000	Update	Delete
5	Teh	5	10000	Update	Delete

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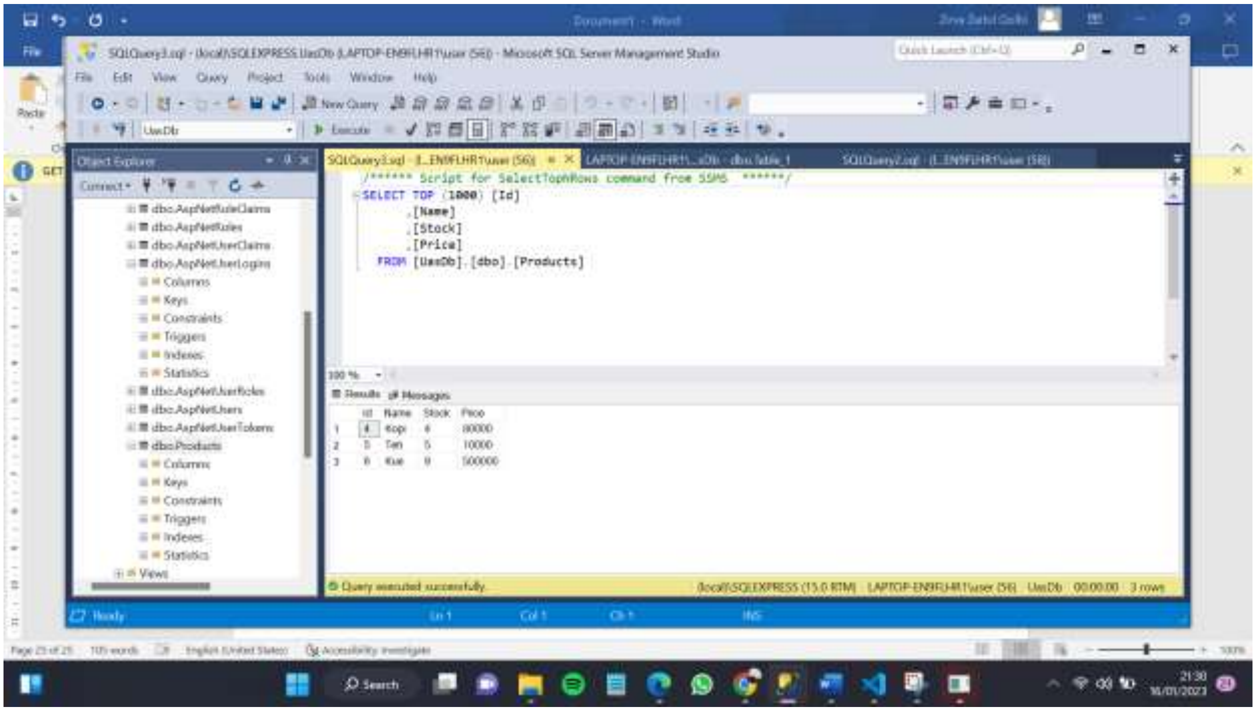
- Database

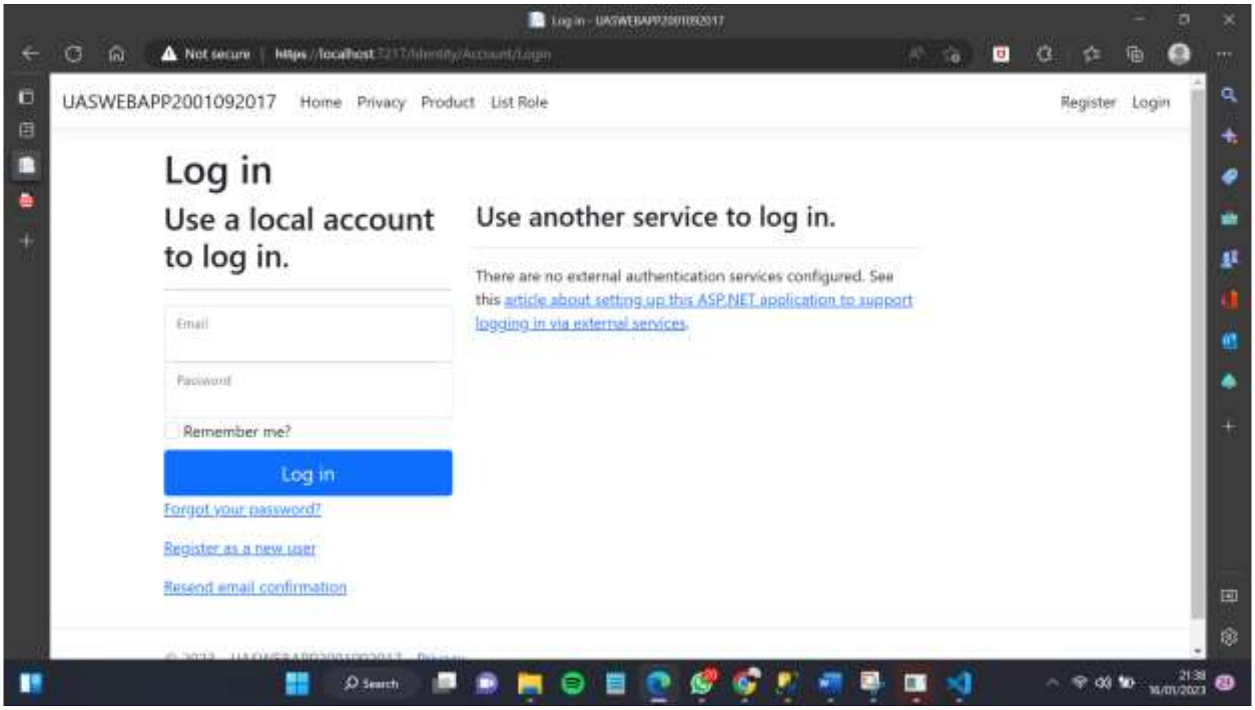


```
/****** Script for SelectTopNRows command from SSMS  ******/
SELECT TOP (1000) [Id]
      ,[Name]
      ,[Stock]
      ,[Price]
  FROM [UasDb].[dbo].[Products]
```

	Id	Name	Stock	Price
1	4	Kopi	4	80000
2	5	Teh	5	10000
3	6	Kue	9	500000

Query executed successfully.

7. Authorisasi Halaman Web
   Harus Login jika ingin mengakses Field-field di Web tersebut


Log in - UASWEBAPP2001092017
Not secure | https://localhost:7217/Identity/Account/Login
UASWEBAPP2001092017 Home Privacy Product List Role
Register Login

Log in

Use a local account to log in.

Email

Password

□ Remember me?

Log in

Forgot your password?

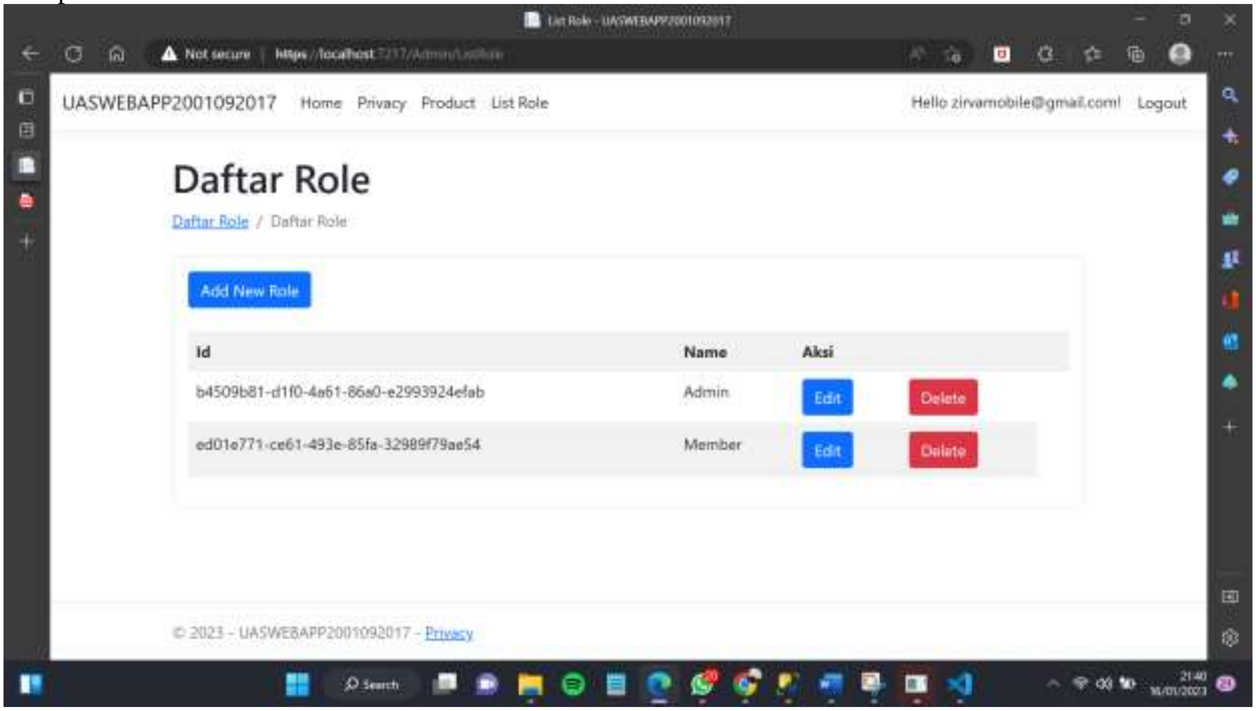
Register as a new user

Resend email confirmation

Use another service to log in.

There are no external authentication services configured. See this article about setting up this ASP.NET application to support logging in via external services.

8. Role
   - Tampilan role


List Role - UASWEBAPP2001092017
Not secure | https://localhost:7217/Admin/ListRole
UASWEBAPP2001092017 Home Privacy Product List Role
Hello zirvamobile@gmail.com! Logout

Daftar Role

Daftar Role / Daftar Role

Add New Role

Id	Name	Aksi	
b4509b81-d1f0-4a61-86a0-e2993924efab	Admin	Edit	Delete
ed01e771-ce61-493e-85fa-32989f79ae54	Member	Edit	Delete

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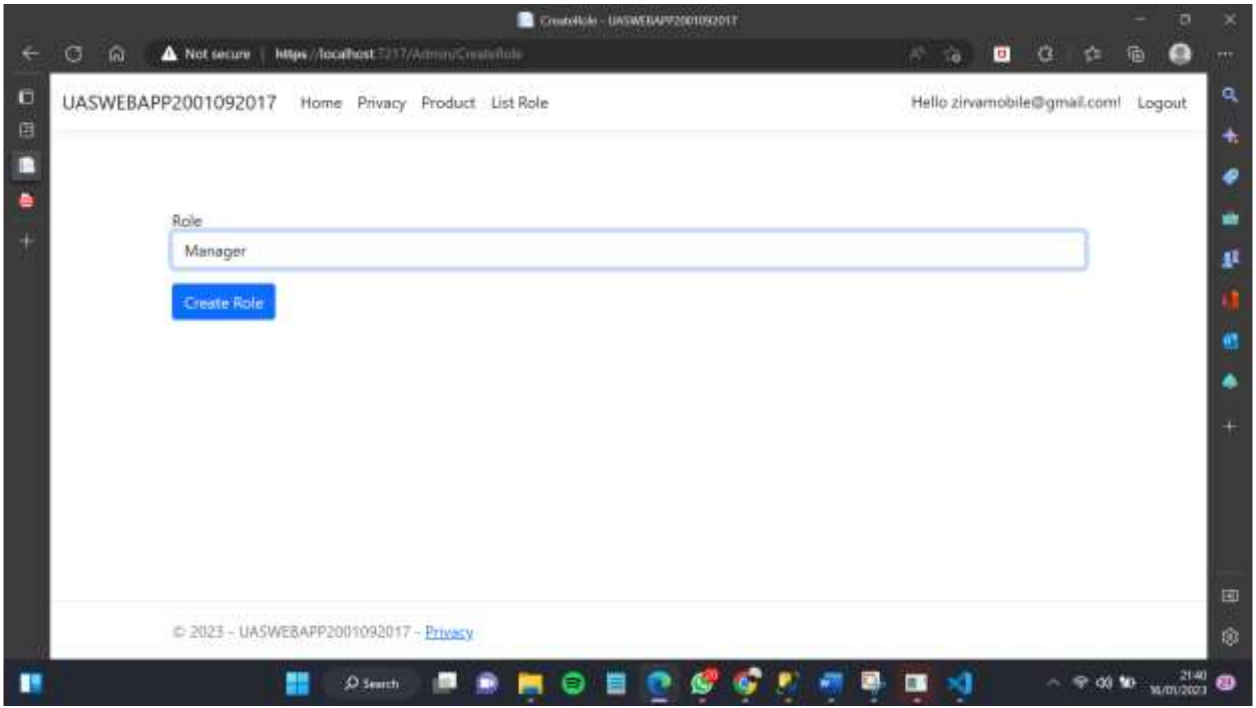
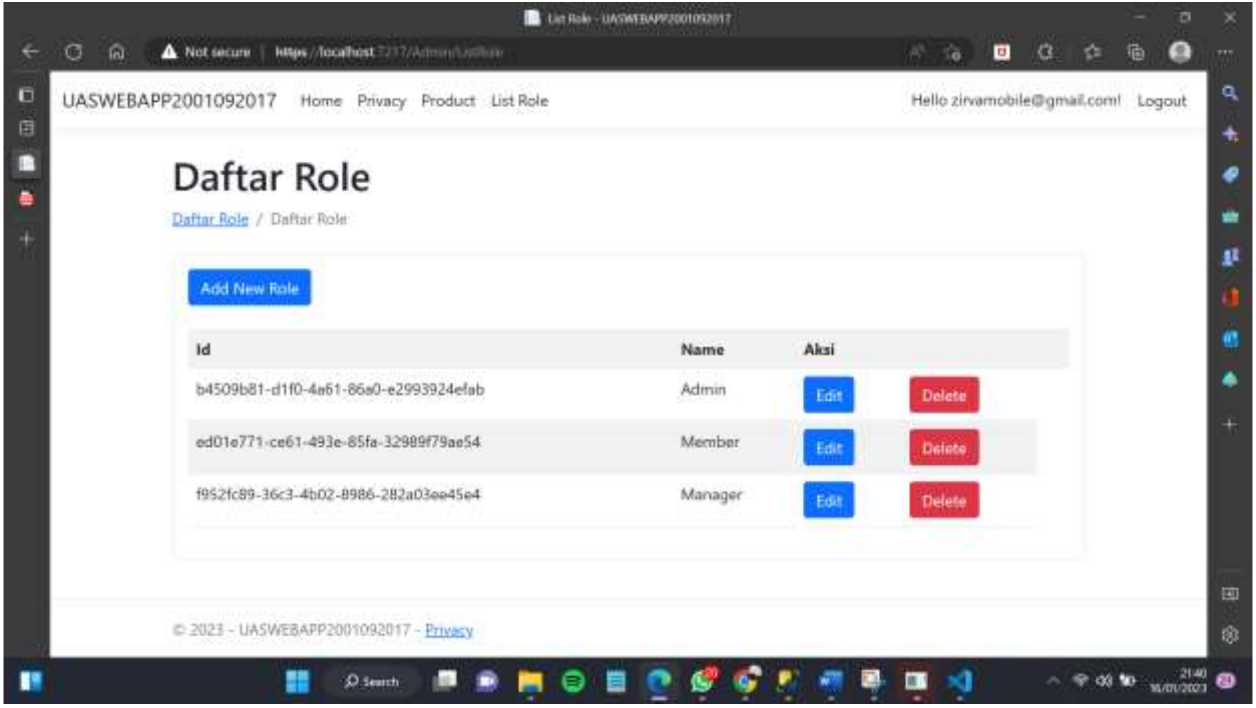
   - Create Role



CreateRole - UASWEBAPP2001092017
Not secure
https://localhost:7217/Admin/CreateRole
UASWEBAPP2001092017
Home
Privacy
Product
List Role
Hello zirvamobile@gmail.com!
Logout
Create Role
© 2023 - UASWEBAPP2001092017 - Privacy
Search

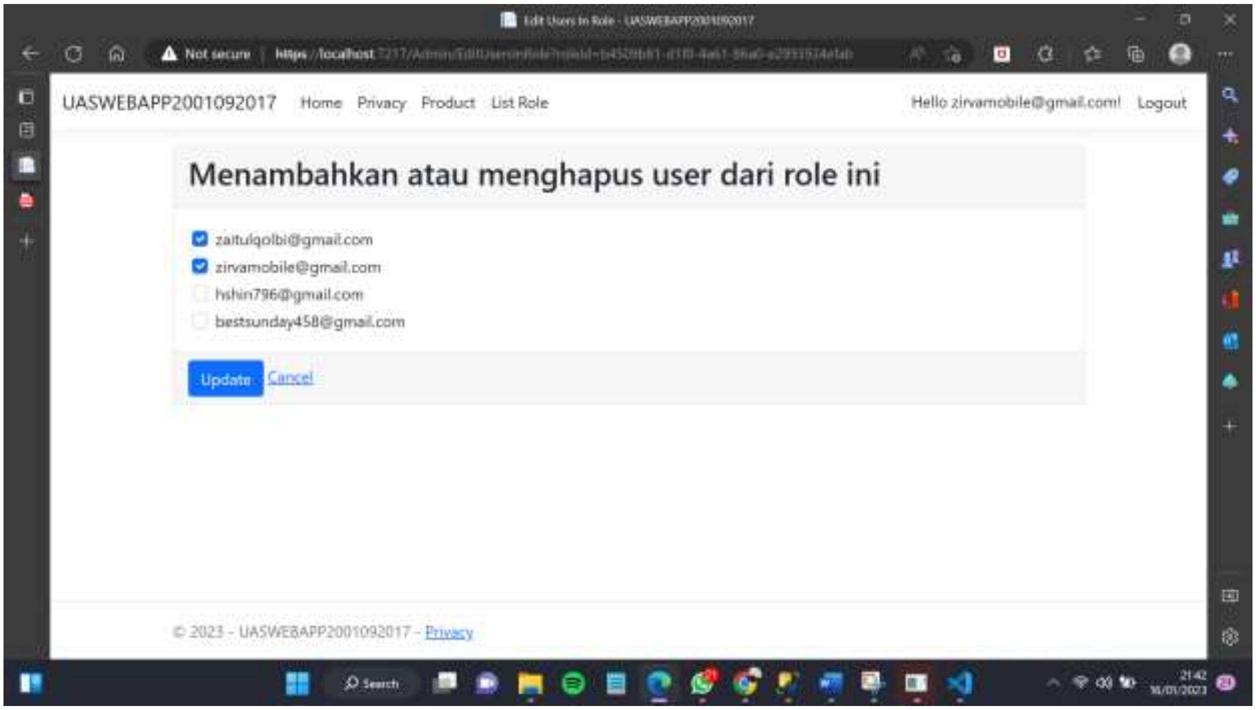
Role: Manager



List Role - UASWEBAPP2001092017
Not secure
https://localhost:7217/Admin/ListRole
UASWEBAPP2001092017
Home
Privacy
Product
List Role
Hello zirvamobile@gmail.com!
Logout
Daftar Role
Daftar Role / Daftar Role
Add New Role
© 2023 - UASWEBAPP2001092017 - Privacy
Search

Id	Name	Aksi	
b4509b81-d1f0-4a61-86a0-e2993924efab	Admin	Edit	Delete
ed01e771-ce61-493e-85fa-32989f79ae54	Member	Edit	Delete
f952fc89-36c3-4b02-8986-282a03ee45e4	Manager	Edit	Delete

- User yang pada Role Admin, dan yang bisa mengakses Field List Role hanya User-user tersebut



UASWEBAPP2001092017 Home Privacy Product List Role Hello zirvamobile@gmail.com! Logout

Menambahkan atau menghapus user dari role ini

☑ zaitulqolbi@gmail.com
☑ zirvamobile@gmail.com
☐ hshin796@gmail.com
☐ bestsunday458@gmail.com

Update Cancel

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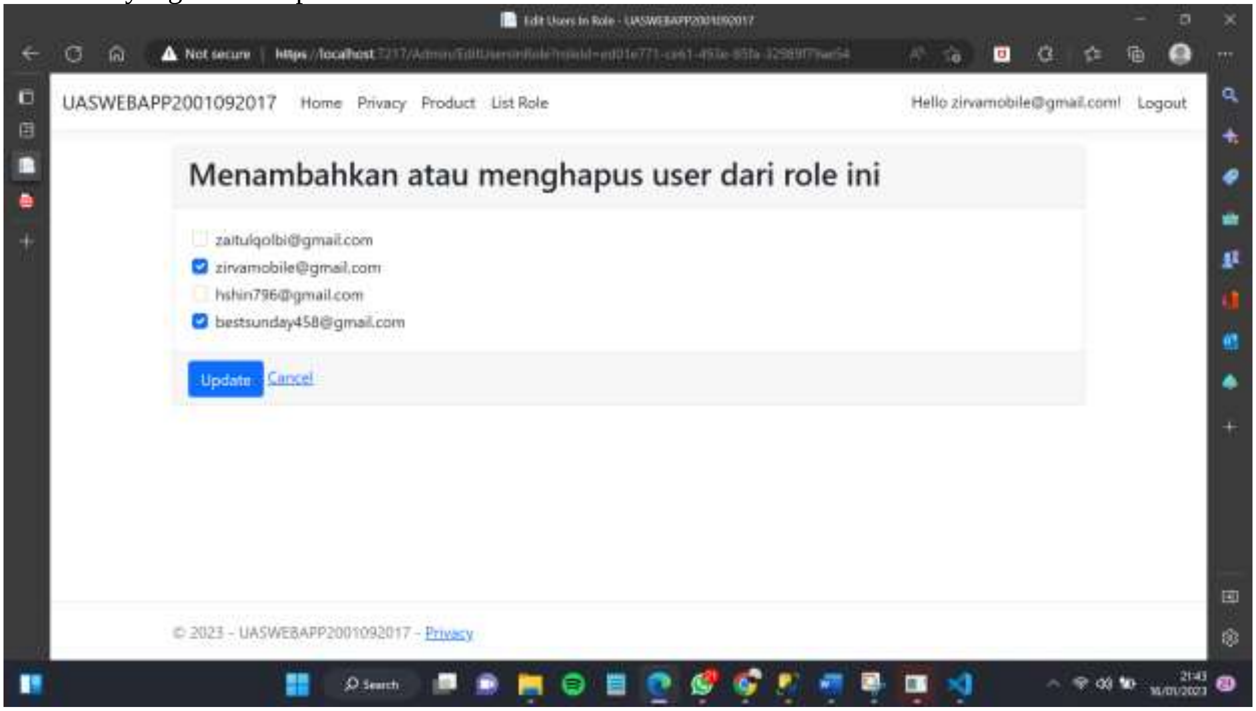
- User-user yang ada pada Role Member, dan yang bisa mengakses Field Product hanya User-user yang terdaftar pada Role Admin dan Member



UASWEBAPP2001092017 Home Privacy Product List Role Hello zirvamobile@gmail.com! Logout

Menambahkan atau menghapus user dari role ini

☐ zaitulqolbi@gmail.com
☑ zirvamobile@gmail.com
☐ hshin796@gmail.com
☑ bestsunday458@gmail.com

Update Cancel

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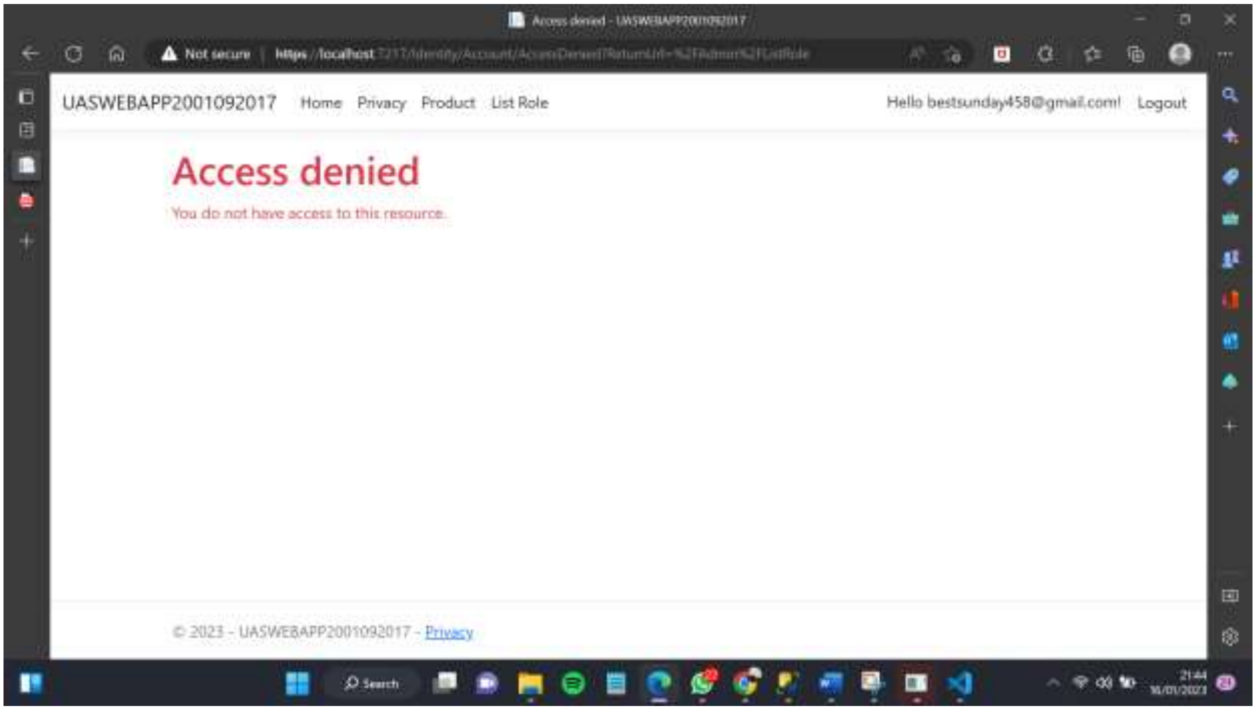
- Jika user tersebut tidak ada pada daftar Role Admin tersebut maka akan muncul Halaman NotFound



Access denied - UASWEBAPP2001092017

https://localhost:7217/Identity/Account/AccessDenied?ReturnUrl=%2FAdmin%2FListRole

UASWEBAPP2001092017 Home Privacy Product List Role Hello bestsunday458@gmail.com! Logout

Access denied

You do not have access to this resource.

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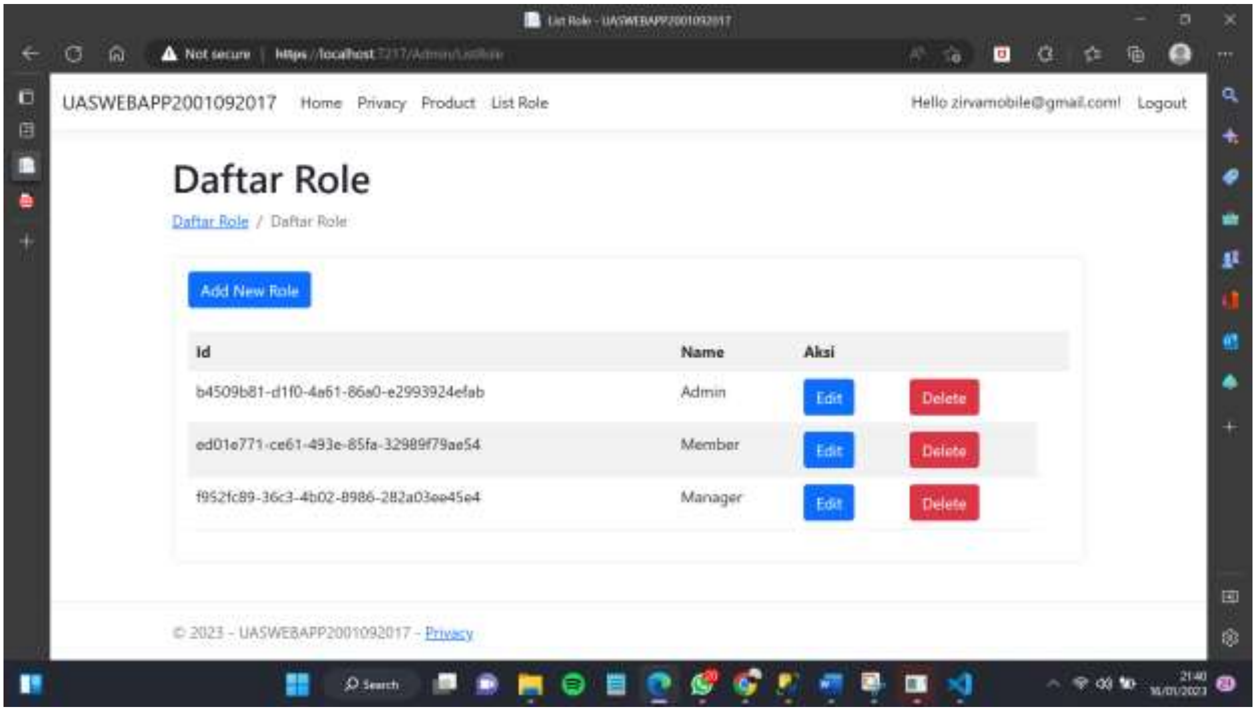
Jika user tersebut terdaftar maka akan muncul Halaman List Role dan bisa menambahkan dan mengedit Role nya



List Role - UASWEBAPP2001092017

https://localhost:7217/Admin/ListRole

UASWEBAPP2001092017 Home Privacy Product List Role Hello zirvamobile@gmail.com! Logout

Daftar Role

Daftar Role / Daftar Role

Add New Role

Id	Name	Aksi	
b4509b81-d1f0-4a61-86a0-e2993924efab	Admin	Edit	Delete
ed01e771-ce61-493e-85fa-32989f79ae54	Member	Edit	Delete
f952fc89-36c3-4b02-8986-282a03ee45e4	Manager	Edit	Delete

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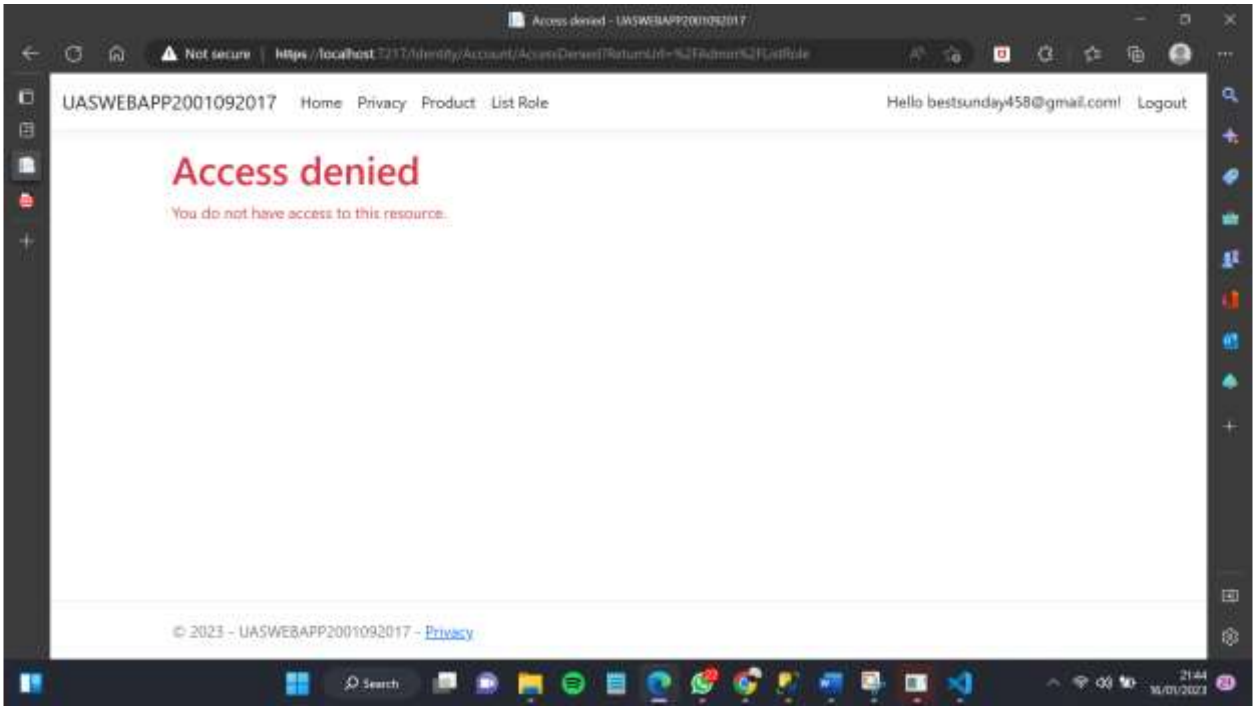
- Jika user tersebut tidak terdaftar pada Role Admin dan Member maka akan muncul juga Halaman NotFound



Access denied - UASWEBAPP2001092017

Not secure | https://localhost:7217/Identity/Account/AccessDenied?ReturnUrl=%2FAdmin%2FListRole

Access denied

You do not have access to this resource.

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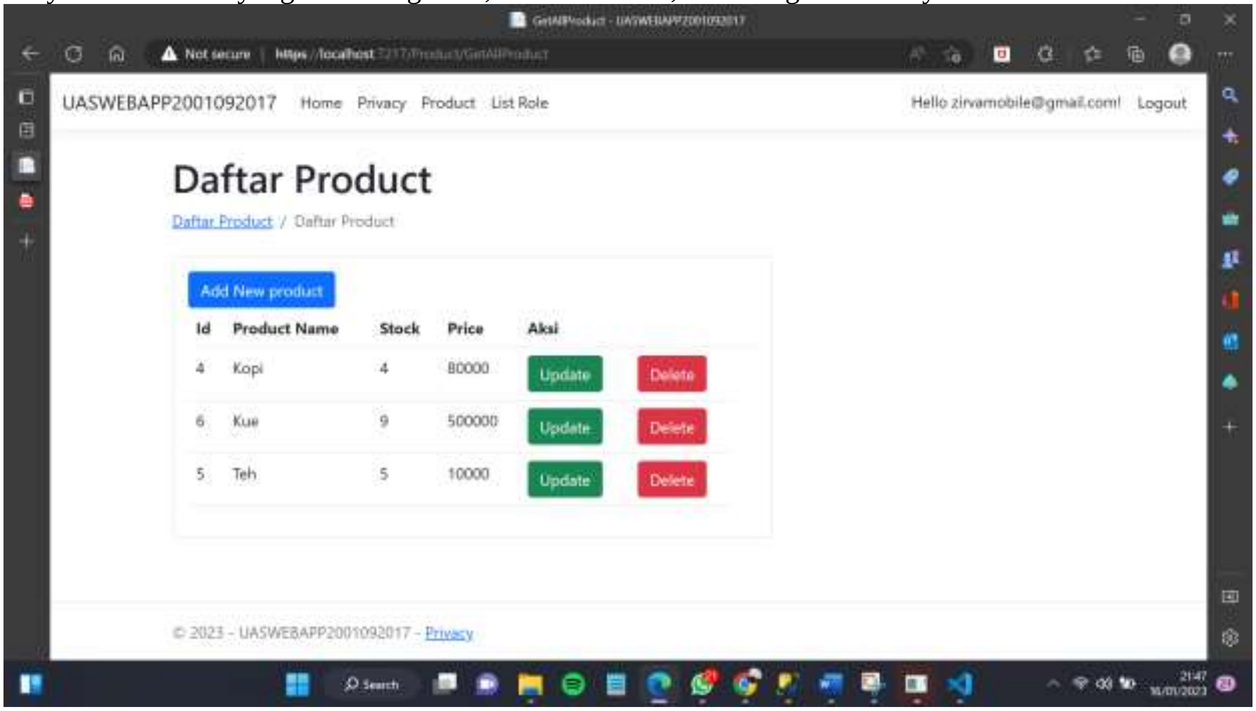
- Yang terdaftar pada Role Admin dan Member hanya User zirvamobile@gmail.com, jadi hanya user tersebut yang bisa mengakses, menambahkan, dan mengedit data nya



GetAllProduct - UASWEBAPP2001092017

Not secure | https://localhost:7217/Product/GetAllProduct

Daftar Product

Daftar Product / Daftar Product

Id	Product Name	Stock	Price	Aksi	
4	Kopi	4	80000	Update	Delete
6	Kue	9	500000	Update	Delete
5	Teh	5	10000	Update	Delete

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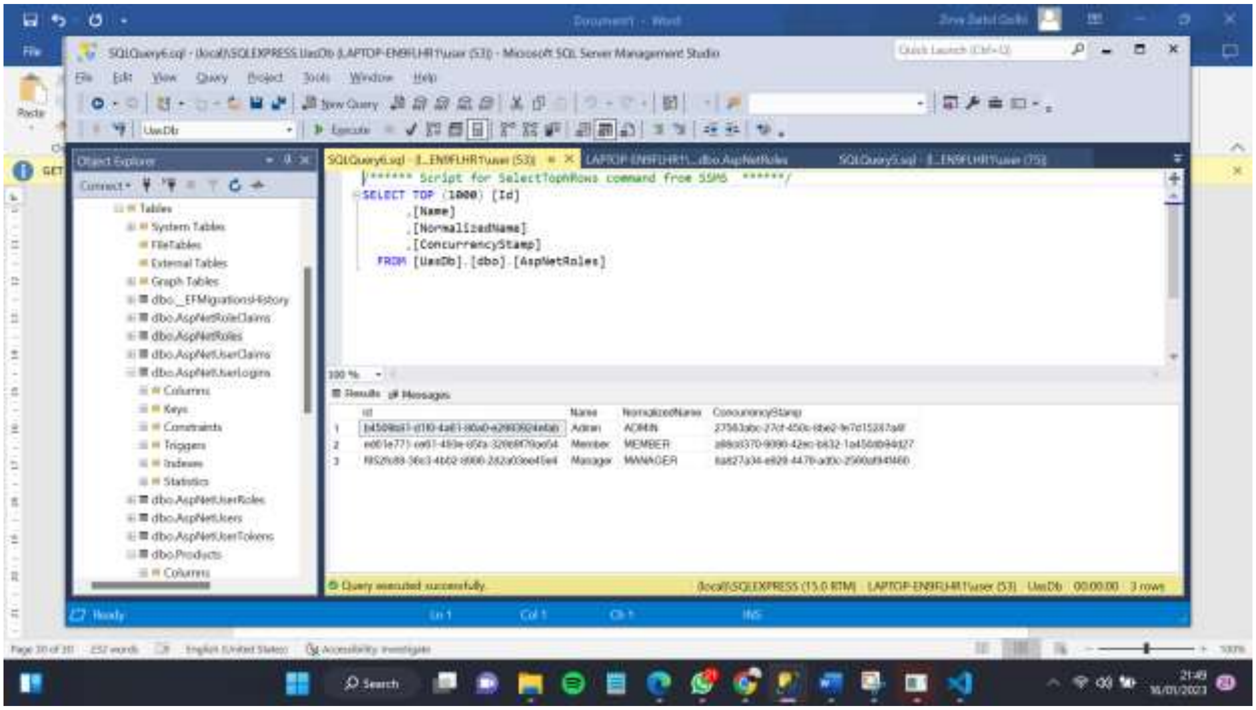
- Database role



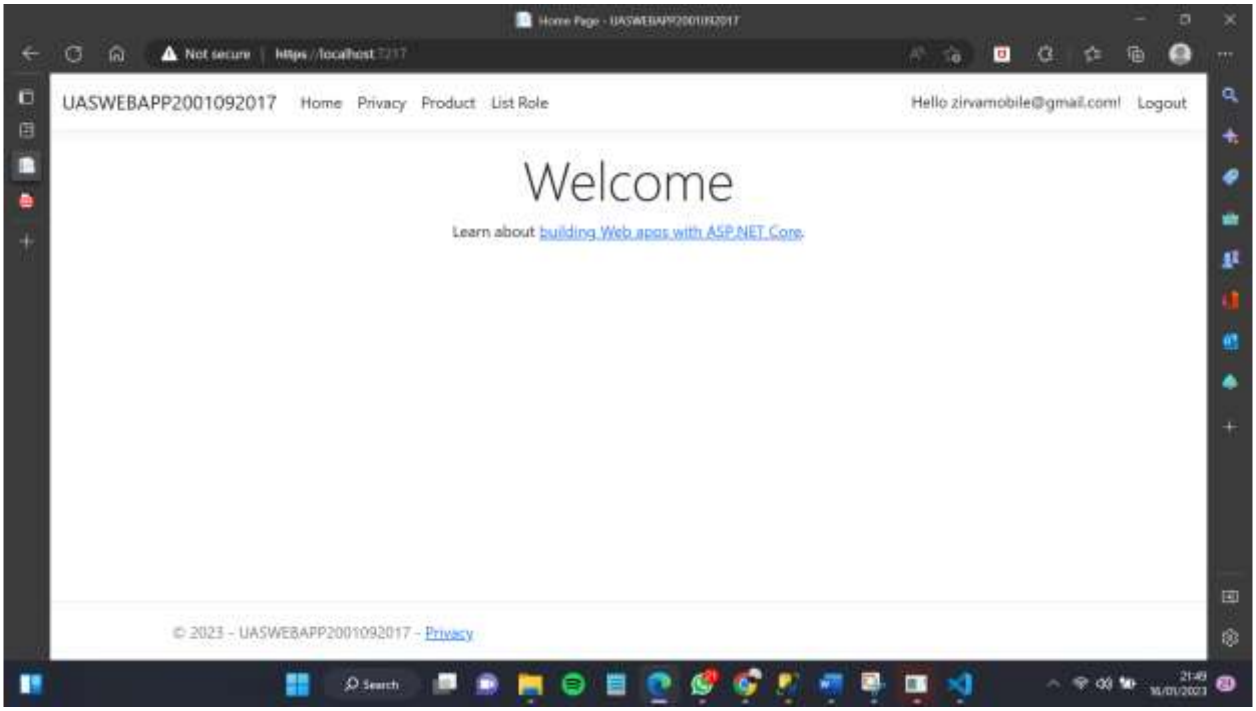
SQLQuery6.sql - (local)\SQLEXPRESS.UasDb (LAPTOP-EN9FLHR1\user (53)) - Microsoft SQL Server Management Studio

```
/****** Script for SelectTopNRows command from SSMS  ******/
SELECT TOP (1000) [Id]
      ,[Name]
      ,[NormalizedName]
      ,[ConcurrencyStamp]
  FROM [UasDb].[dbo].[AspNetRoles]
```

	Id	Name	NormalizedName	ConcurrencyStamp
1	b4509b61-d110-4a61-90a0-e2903924ebab	Admin	ADMIN	27563abc-27cf-450c-8be2-9e7d15267a8f
2	ed01e771-ce61-493e-85fa-32f6f8f70ce54	Member	MEMBER	a88c0370-9090-42ec-b832-1a456db94d27
3	f852fc89-36c3-4b02-8000-282a03ee45e4	Manager	MANAGER	6a827a34-e828-4478-ad0c-2500af84f460

Query executed successfully. (local)\SQLEXPRESS (15.0 RTM) LAPTOP-EN9FLHR1\user (53) UasDb 00:00:00 3 rows

- Selesai



Home Page - UASWEBAPP2001092017

https://localhost:7217

UASWEBAPP2001092017 Home Privacy Product List Role Hello zirvamobile@gmail.com! Logout

Welcome

Learn about building Web apps with ASP.NET Core.

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