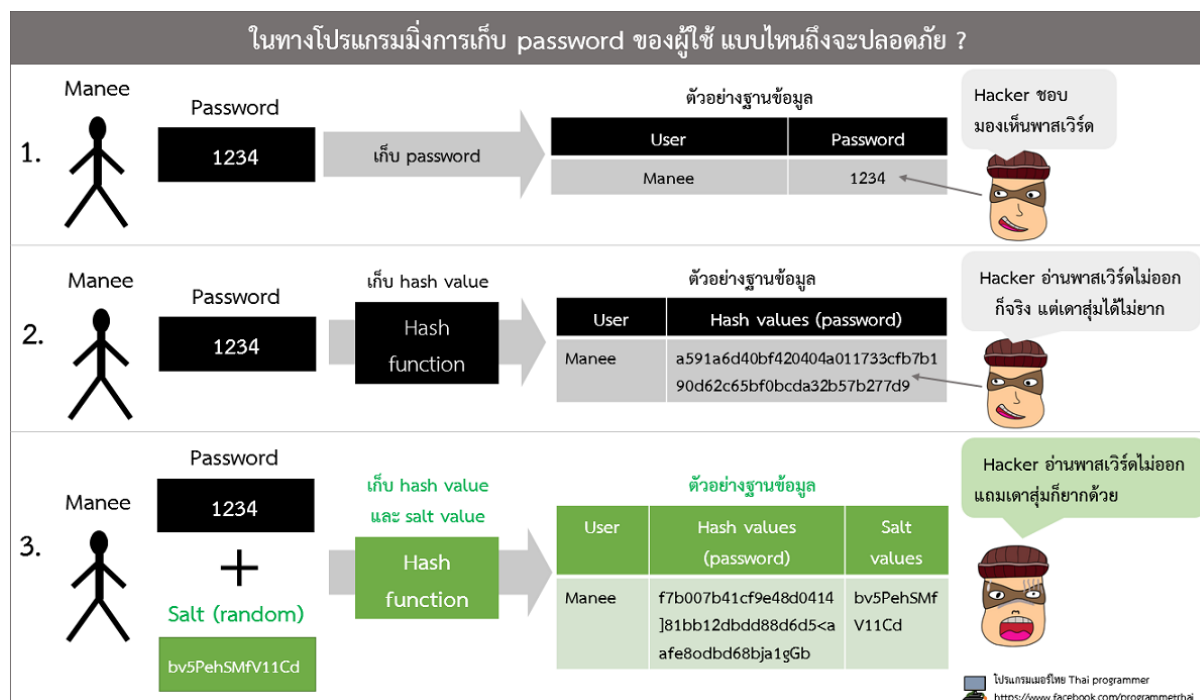


Authentication

Login/Logout (เวอร์ชันที่ไม่มีการปรับแต่ง Database)

Hash Password เข้ารหัสผ่านด้วยเทคนิค **Hash+Salt** เพื่อให้ค่าแฮชไม่ซ้ำกัน

<https://www.patanasongsivilai.com/blog/password-hash-function-salt-values/>



การสร้างฐานข้อมูลแบบ Code First

รูปแบบคำสั่งการสร้างตารางในฐานข้อมูล ef migration

<https://docs.microsoft.com/en-us/ef/core/managing-schemas/migrations/?tabs=dotnet-core-cli>

Add a migration

```
dotnet ef migrations add InitialCreate
```

Create/Update database and schema (latest migration)

```
dotnet ef database update
```

OR The following updates your database to a given migration:

```
dotnet ef database update AddNewTables
```

*สีแดงคือชื่อ Migration ที่ต้องการกำหนด หรือจัดการ

ตัวอย่าง

การสร้างตารางในฐานข้อมูล

dotnet ef migrations add InitialCreate เริ่มสร้างกำหนดชื่อ migration ว่า InitialCreate

dotnet ef migrations remove ลบการ migration ตัวล่าสุดออก

dotnet ef database update การอัปเดตฐานข้อมูลด้วยตัว migration ล่าสุด

การสร้างตารางโดยระบุชื่อ context

```
dotnet ef migrations add CreateIdentitySchema --context ชื่อContext
```

```
dotnet ef database update --context ชื่อContext
```

```
dotnet ef migrations remove -c IdentityContext
```

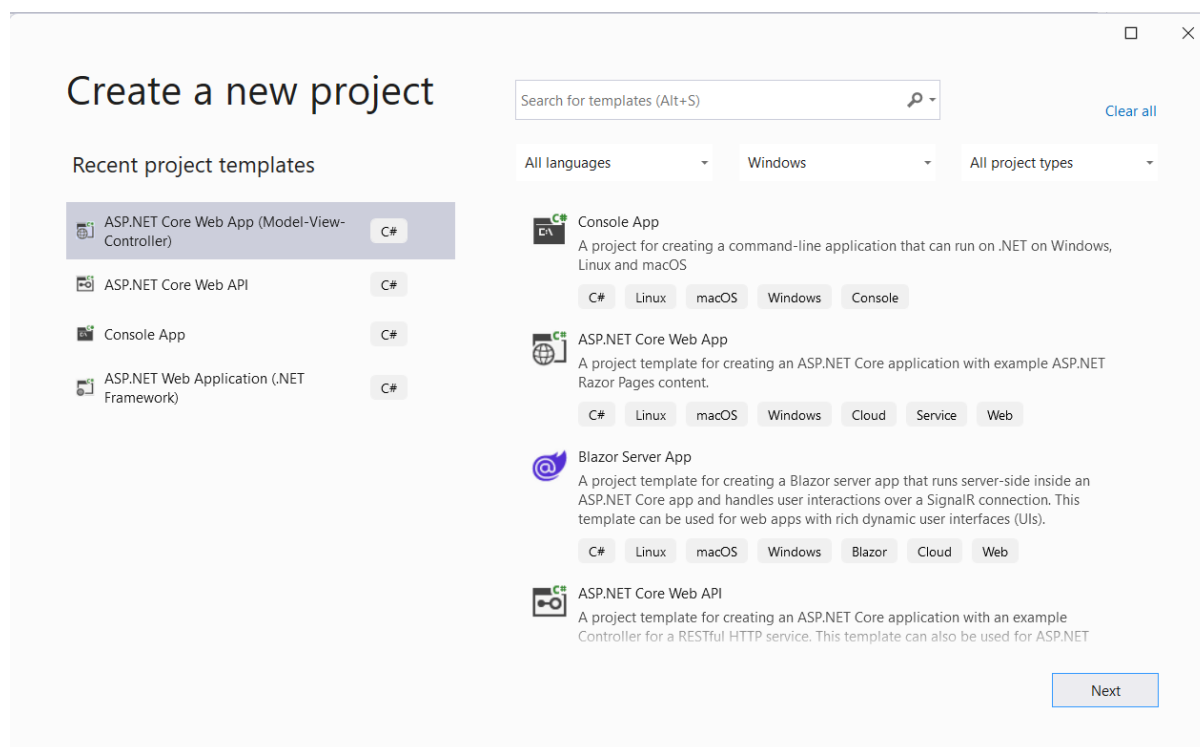
*หมายเหตุ การระบุ --context กรณีมี dbcontext มากกว่า 1 ตัว

Identity on ASP.NET Core ดูเพิ่มเติม

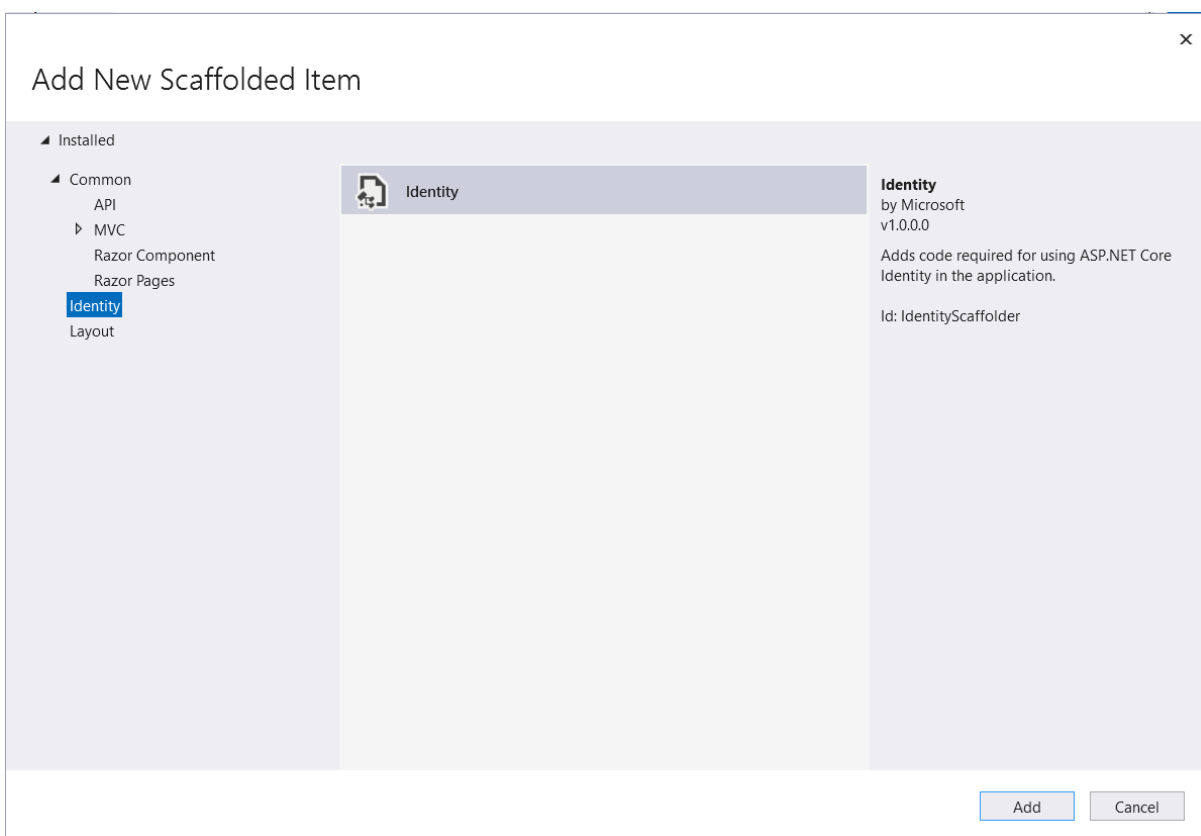
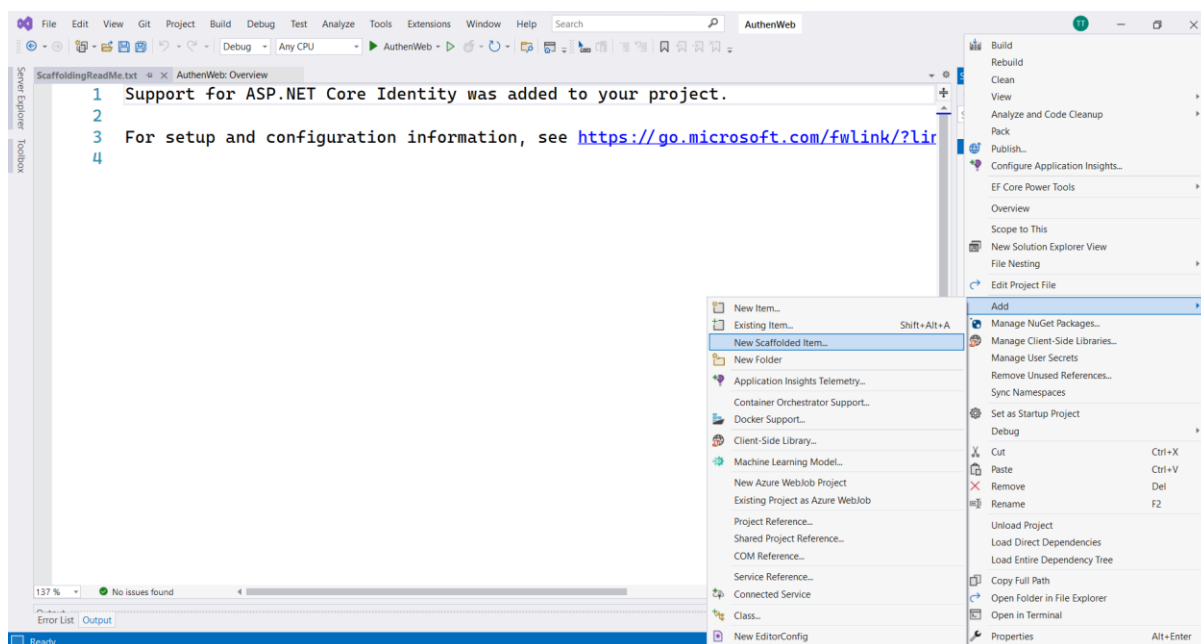
<https://docs.microsoft.com/en-us/aspnet/core/security/authentication/identity?view=aspnetcore-6.0&tabs=visual-studio>

<https://docs.microsoft.com/en-us/aspnet/core/security/authentication/scaffold-identity?view=aspnetcore-6.0&tabs=visual-studio>

สร้างโปรเจค MVC ดังนี้



สร้าง Identity Framework ดังนี้



ปรับแต่งโค้ดที่ Error และ Using ให้ใช้งานได้ดังนี้

Program.cs

```

1 using Microsoft.AspNetCore.Identity;
2 using Microsoft.EntityFrameworkCore;
3 using AuthenWeb.Data;
4 using AuthenWeb.Areas.Identity.Data;
5
6 var builder = WebApplication.CreateBuilder(args);
7
8 var connectionString = builder.Configuration.GetConnectionString("AuthenDBContextConnection");
9 options.UseSqlServer(connectionString);
10 builder.Services.AddDefaultIdentity<User>(options => options.SignIn.RequireConfirmedAccount =
11     .AddEntityFrameworkStores<AuthenDBContext>());
12
13 // Add services to the container.
14 builder.Services.AddControllersWithViews();
15
16 var app = builder.Build();
17
18 // Configure the HTTP request pipeline.
19 if (!app.Environment.IsDevelopment())
20 {
21     app.UseExceptionHandler("/Home/Error");
22     // The default HSTS value is 30 days. You may want to change this for production scenario:
23     app.UseHsts();
24 }
25
26 app.Run();
  
```

appsettings.json

```

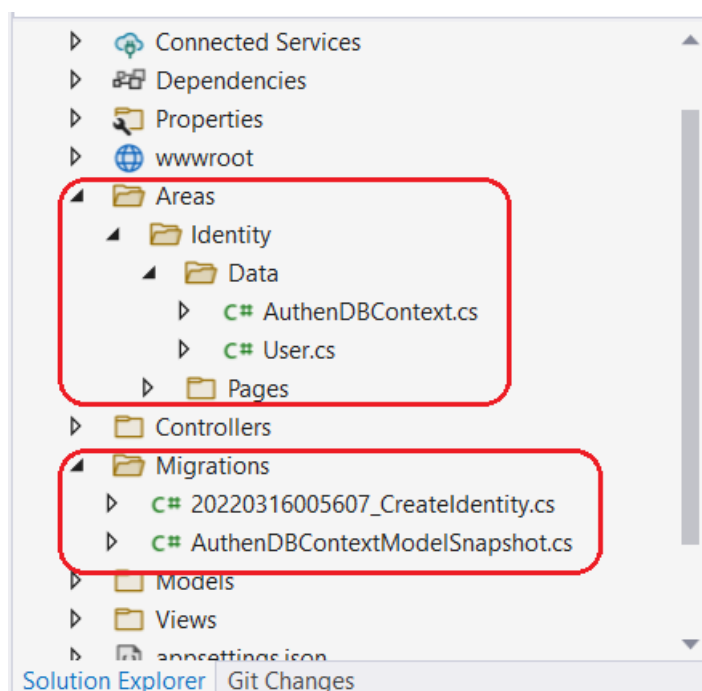
1 {
2   "Logging": {
3     "LogLevel": {
4       "Default": "Information",
5       "Microsoft.AspNetCore": "Warning"
6     }
7   },
8   "AllowedHosts": "*",
9   "ConnectionStrings": {
10    "AuthenDBContextConnection": "Server=.;sqllocaldb;Database=AuthenDB;Trusted_Connection=true;
11  }
12 }
  
```

สร้างฐานข้อมูลด้วยคำสั่ง ดังนี้

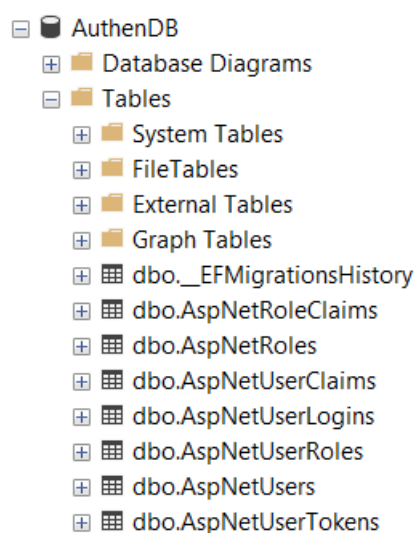
```
dotnet ef migrations add CreateIdentity
```

```
dotnet ef database update
```

ผลลัพธ์ที่ได้



SQL Server



ปรับโค้ด Program.cs (การป้อนรหัสผ่าน / การเรียกใช้หน้าแสดงผลแบบ Endpoint) ดังนี้

```
using Microsoft.AspNetCore.Identity;
using Microsoft.EntityFrameworkCore;
using AuthenWeb.Data;
using AuthenWeb.Areas.Identity.Data;

var builder = WebApplication.CreateBuilder(args);

var connectionString =
builder.Configuration.GetConnectionString("AuthenDBContextConnection");

builder.Services.AddDbContext<AuthenDBContext>(options =>
    options.UseSqlServer(connectionString));

builder.Services.AddDefaultIdentity<User>(options =>
{
    options.SignIn.RequireConfirmedAccount = false;
    options.Password.RequireLowercase = false;
    options.Password.RequireUppercase = false;
    options.Password.RequireNonAlphanumeric = false;
    options.Password.RequireDigit = false;
})
    .AddEntityFrameworkStores<AuthenDBContext>();

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

builder.Services.AddRazorPages();

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();

app.UseRouting();

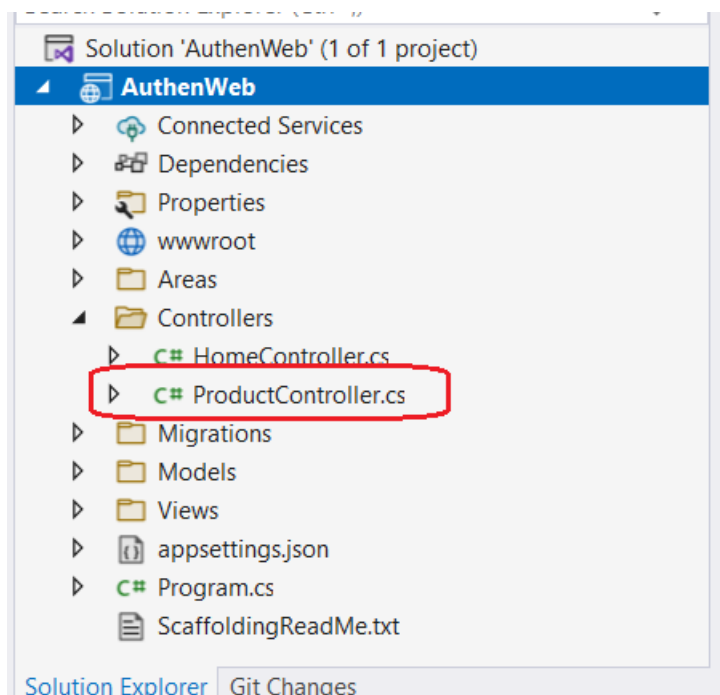
app.UseAuthentication();
app.UseAuthorization();

app.MapControllerRoute(
    name: "default",
    pattern: "{controller=Home}/{action=Index}/{id?}");

app.MapRazorPages();

app.Run();
```


เพิ่มคอนโทรลเลอร์ ดังนี้



ปรับแต่งโค้ด ดังนี้

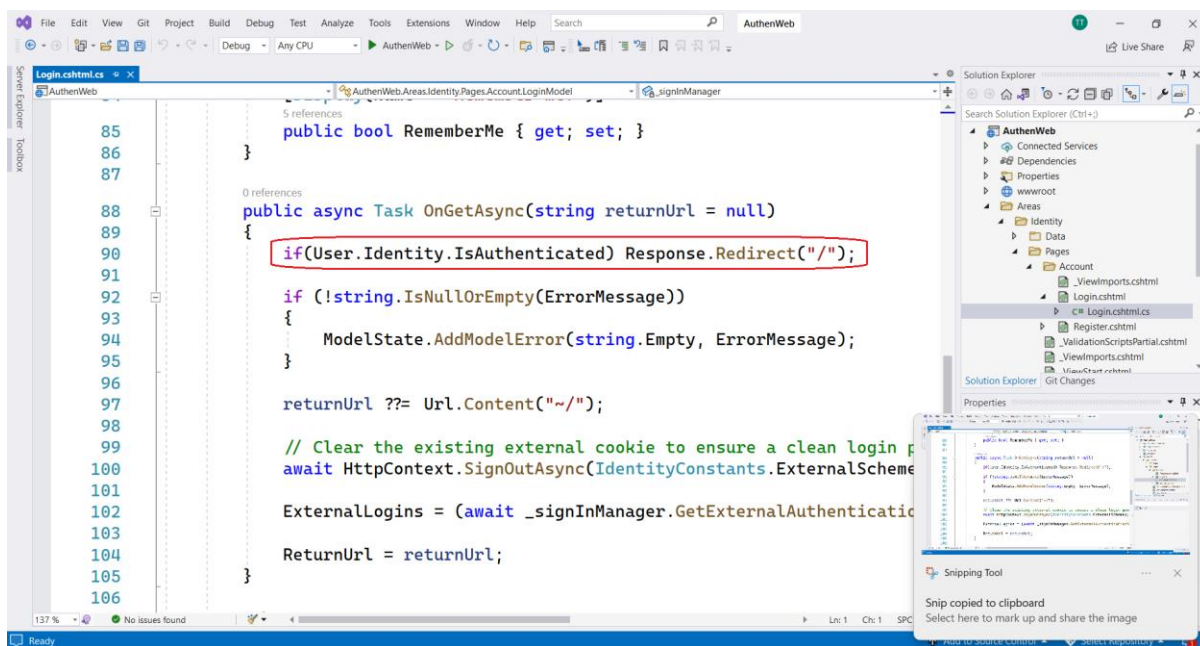
HomeController.cs (ถ้ายังไม่เข้าระบบให้ไปหน้า login)

```
public IActionResult Index()
{
    if (!User.Identity!.IsAuthenticated)
        Response.Redirect("/identity/account/Login");
    return View();
}
```

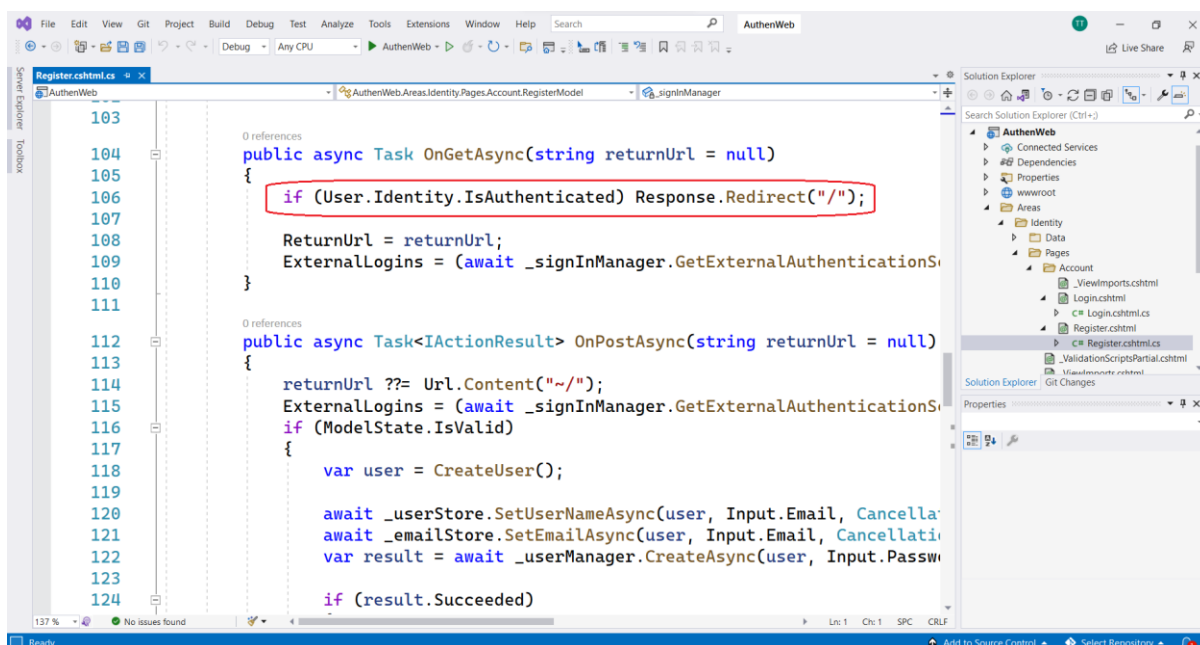
ProductController.cs (ถ้ายังไม่เข้าระบบ ไม่อนุญาตให้เข้ามาใช้ Product)

```
[Authorize]
public class ProductController : Controller
{
    public IActionResult Index()
    {
        return View();
    }
}
```

Login.cshtml.cs (ถ้าเข้าระบบแล้ว ให้กลับไปหน้า Home)

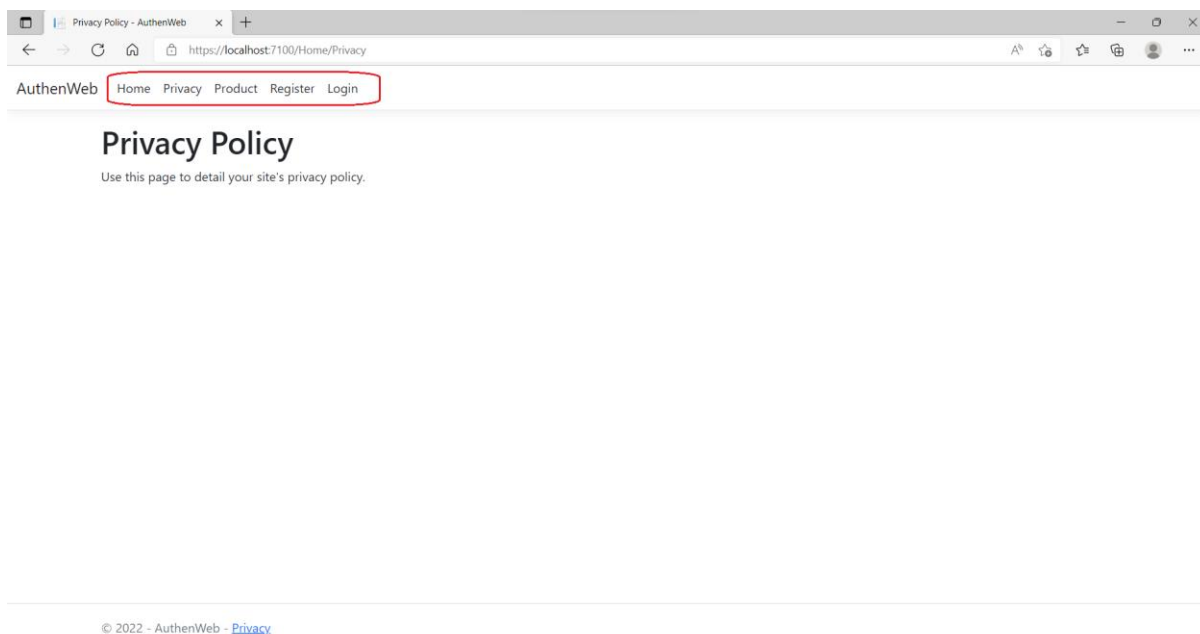


Register.cshtml.cs (ถ้าเข้าระบบแล้ว ให้กลับไปหน้า Home)



if (User.Identity.IsAuthenticated) Response.Redirect("/");

_Layout.cshtml (เพิ่มเมนู) ดังนี้



```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>@ViewData["Title"] - AuthenWeb</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="~/AuthenWeb.styles.css" asp-append-
version="true" />
</head>
<body>
  <header>
    <nav class="navbar navbar-expand-sm navbar-toggleable-sm navbar-light bg-
white border-bottom box-shadow mb-3">
      <div class="container-fluid">
        <a class="navbar-brand" asp-area="" asp-controller="Home" asp-
action="Index">AuthenWeb</a>
        <button class="navbar-toggler" type="button" data-bs-
toggle="collapse" data-bs-target=".navbar-collapse" 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>
          </ul>
        </div>
      </div>
    </nav>
  </header>
  <div class="main">
    <div class="row">
      <div class="col">
        <h2>Privacy Policy</h2>
        <p>Use this page to detail your site's privacy policy.</p>
      </div>
    </div>
  </div>
  <div class="page-footer">
    <p>© 2022 - AuthenWeb - <a href="#">Privacy</a></p>
  </div>
</body>
</html>
```

```

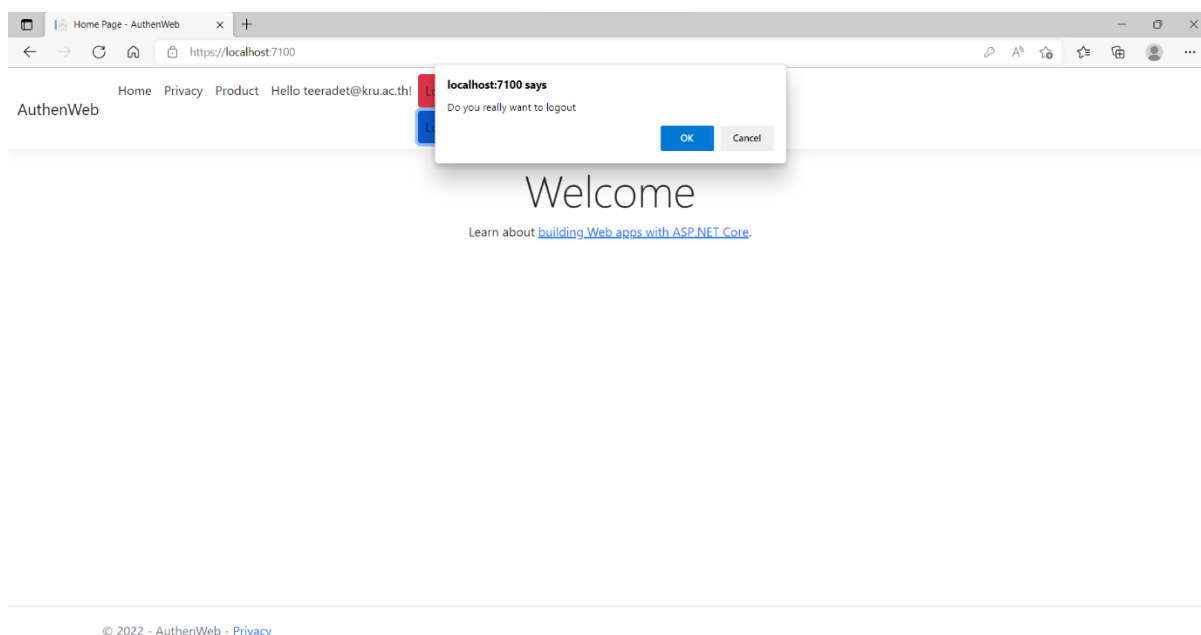
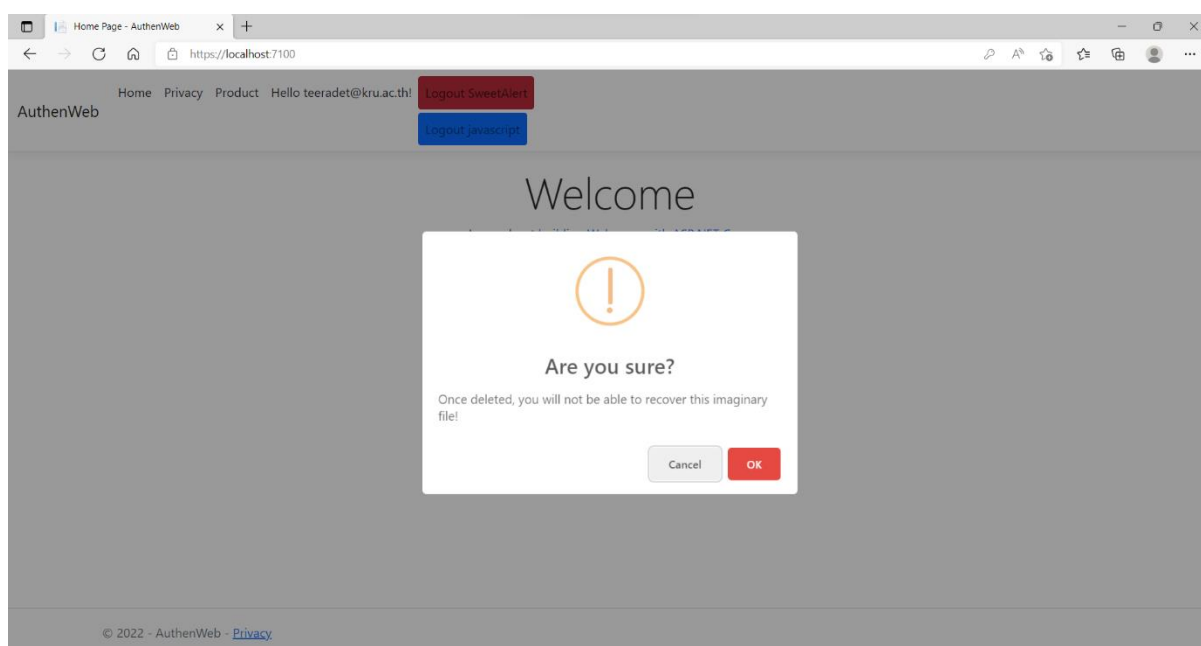
        <li class="nav-item">
            <a class="nav-link text-dark" asp-area="" asp-
controller="Product" asp-action="Index">Product</a>
        </li>
        <li class="nav-item">
            <partial name="_LoginPartial.cshtml"/>
        </li>
    </ul>
</div>
</div>
</nav>
</header>
<div class="container">
    <main role="main" class="pb-3">
        @RenderBody()
    </main>
</div>

<footer class="border-top footer text-muted">
    <div class="container">
        &copy; 2022 - AuthenWeb - <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>

<script src="https://unpkg.com/sweetalert/dist/sweetalert.min.js"></script>
@await RenderSectionAsync("Scripts", required: false)
</body>
</html>

```

_LoginPartial.cshtml (ถามยืนยันก่อน Logout)



```

@using Microsoft.AspNetCore.Identity
@using AuthenWeb.Areas.Identity.Data

@inject SignInManager<User> SignInManager
@inject UserManager<User> UserManager

<ul class="navbar-nav">
    @if (SignInManager.IsSignedIn(User))
    {
        <li class="nav-item">
            <a id="manage" class="nav-link text-dark" asp-area="Identity" asp-
page="/Account/Manage/Index" title="Manage">Hello
@UserManager.GetUserName(User)!</a>
        </li>
        <li class="nav-item">
            <form id="logoutForm" class="form-inline" asp-area="Identity" asp-
page="/Account/Logout" asp-route-returnUrl="@Url.Action("Index", "Home", new {
area = "" })">
                <button id="logout" onclick="confirmLogout()" class="nav-link btn
btn-danger">Logout SweetAlert</button>
                <button id="logout1" onclick="return confirm('Do you really want
to logout')" class="nav-link btn btn-primary mt-1">Logout javascript</button>
            </form>
        </li>
    }
    else
    {
        <li class="nav-item">
            <a class="nav-link text-dark" id="register" asp-area="Identity" asp-
page="/Account/Register">Register</a>
        </li>
        <li class="nav-item">
            <a class="nav-link text-dark" id="login" asp-area="Identity" asp-
page="/Account/Login">Login</a>
        </li>
    }
</ul>

<script>
    function confirmLogout() {
        event.preventDefault();
        swal({
            title: "Are you sure?",
            text: "Once deleted, you will not be able to recover this imaginary
file!",
            icon: "warning",
            buttons: true,
            dangerMode: true,
        })
        .then((willDelete) => {
            if (willDelete) {
                $('form').submit();
            }
        });
    }
</script>

```