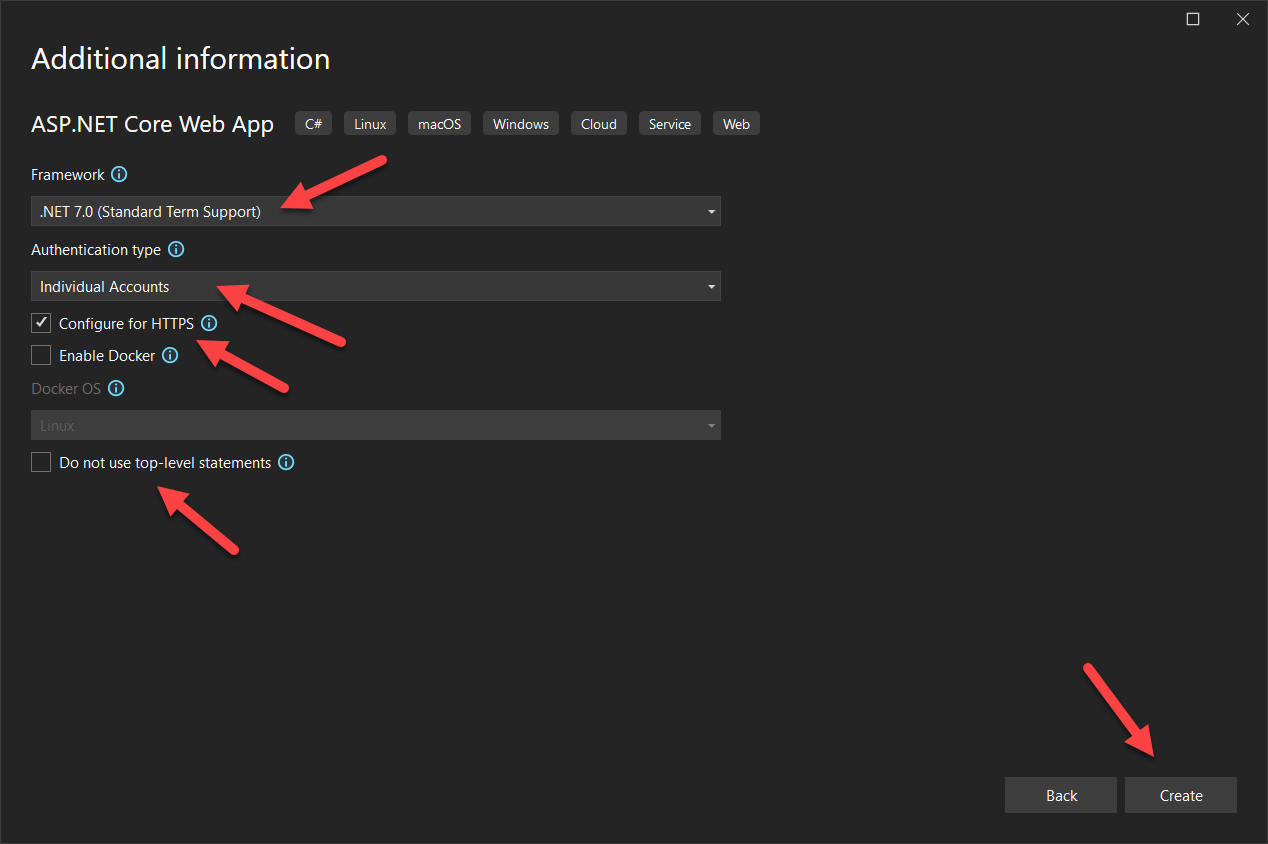
**Step 1**



Fix Files

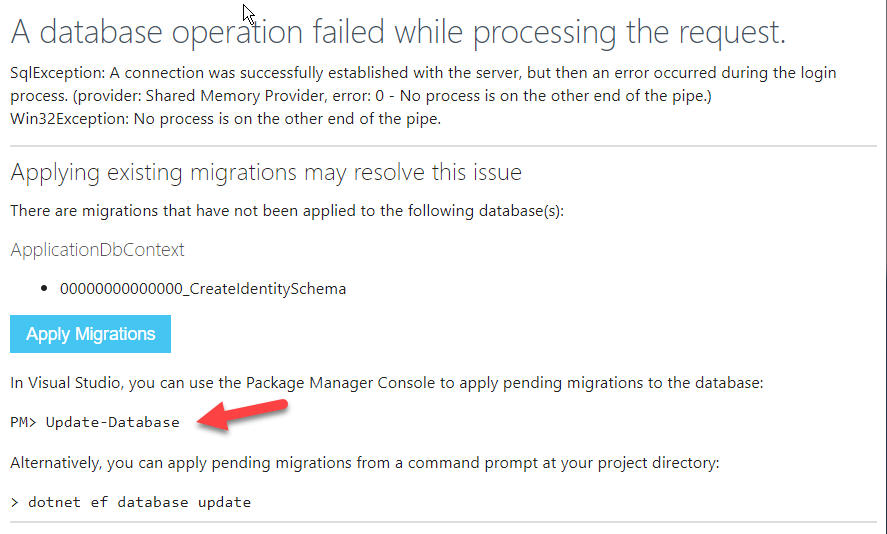
Change Connection String

Run Application

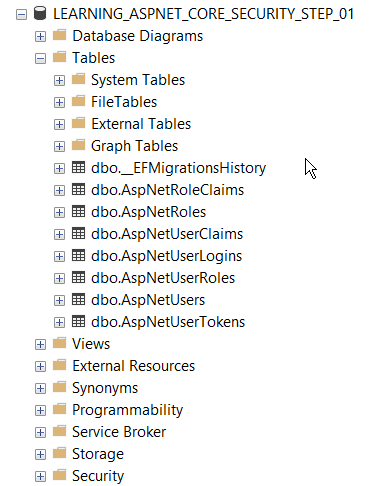
Register with below Password:

Hello12345!

We Get Error!



PM> Update-Database



Run Application (Again)

Register with below Password:

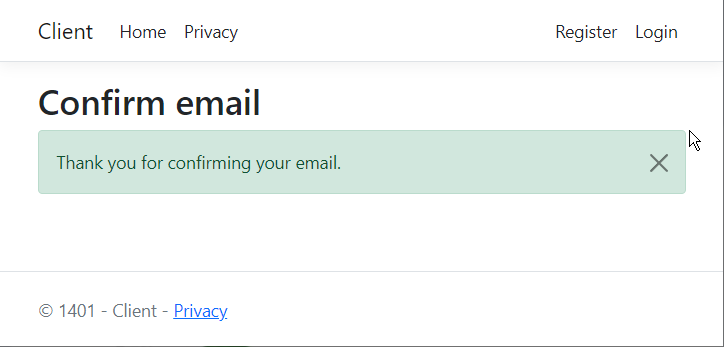
Hello12345!

Graphical user interface, text

Description automatically generated

Account confirmation and password recovery in ASP.NET Core

<https://learn.microsoft.com/en-us/aspnet/core/security/authentication/accconfirm?view=aspnetcore-7.0&tabs=visual-studio>



**Step 2**

* Delete unnecessary comments.
* Change Connection String
* Make application launching simple:
  + Properties\launchSettings.json.
* In Data folder, Rename the file ApplicationDbContext to DatabaseContext
* In DatabaseContext class:
  + Delete the Client word from namespace!
* override OnModelCreating method

**Change the Primary Key of Tables (From default string to int)**

* In DatabaseContext class change:

public class DatabaseContext :

Microsoft.AspNetCore.Identity.EntityFrameworkCore.IdentityDbContext

{

}

public class DatabaseContext :

Microsoft.AspNetCore.Identity.EntityFrameworkCore.IdentityDbContext

<Microsoft.AspNetCore.Identity.IdentityUser<int>,

Microsoft.AspNetCore.Identity.IdentityRole<int>,

int>

{

}

* In Program.cs change:

// \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// دستور ذیل به دلیل تغییر جنس کلید اولیه کار نمی‌کند

// \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

//builder.Services

// .AddDefaultIdentity<Microsoft.AspNetCore.Identity.IdentityUser>

// (configureOptions: options =>

// {

// options.SignIn.RequireConfirmedAccount = true;

// })

// .AddEntityFrameworkStores

// <Data.DatabaseContext>();

// \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

builder.Services

.AddDefaultIdentity<Microsoft.AspNetCore.Identity.IdentityUser<int>>

(configureOptions: options =>

{

options.SignIn.RequireConfirmedAccount = true;

})

.AddEntityFrameworkStores

<Data.DatabaseContext>();

// \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

* In Pages folder, update the \_LoginPartial.cshtml file:

@\*

@inject UserManager<IdentityUser> UserManager

@inject SignInManager<IdentityUser> SignInManager

\*@

@inject UserManager<IdentityUser<int>> UserManager

@inject SignInManager<IdentityUser<int>> SignInManager

* In DatabaseContext.cs and in OnModelCreating function, change the default Schema and Table names
* Delete Database (If exists):
  + LEARNING\_ASPNET\_CORE\_SECURITY\_STEP\_02
* In Data folder, Delete Migrations folder.
* PM> add-migration InitialMigration -outputDir Data -namespace Data.Migrations
* PM> update-database
* Run the application and do register and then login for testing.

**Adding Custom Fields to Identity User and Identity Role**

* Create Folder: Domain
* Create File: User.cs
* Change the namespace and delete the Client word.
* Inherit the User class from IdentityUser.
* Create File: Role.cs
* Change the namespace and delete the Client word.
* Inherit the Role class from IdentityRole.
* Update Program.cs file and replace IdentityUser to Domain.User and add AddRoles:

builder.Services

// New

.AddDefaultIdentity<Domain.User>

(configureOptions: options =>

{

options.SignIn.RequireConfirmedAccount = true;

})

// New

.AddRoles<Domain.Role>()

.AddEntityFrameworkStores

<Data.DatabaseContext>();

* In Data folder, update the DatabaseContext.cs file:

public class DatabaseContext :

Microsoft.AspNetCore.Identity.EntityFrameworkCore.IdentityDbContext

<Microsoft.AspNetCore.Identity.IdentityUser<int>,

Microsoft.AspNetCore.Identity.IdentityRole<int>,

int>

{

}

public class DatabaseContext :

Microsoft.AspNetCore.Identity.EntityFrameworkCore

.IdentityDbContext<Domain.User, Domain.Role, int>

{

}

* In DatabaseContext.cs file and update OnModelCreating function:

builder.Entity<Domain.Role>

(buildAction: entity =>

{

entity.ToTable(name: "Roles");

});

//builder.Entity<Microsoft.AspNetCore.Identity.IdentityRole<int>>

// (buildAction: entity =>

// {

// entity.ToTable(name: "Roles");

// });

builder.Entity<Domain.User>

(buildAction: entity =>

{

entity.ToTable(name: "Users");

});

//builder.Entity<Microsoft.AspNetCore.Identity.IdentityUser<int>>

// (buildAction: entity =>

// {

// entity.ToTable(name: "Users");

// });

* In Pages folder, update the \_LoginPartial.cshtml file:

@\*

@inject UserManager<IdentityUser<int>> UserManager

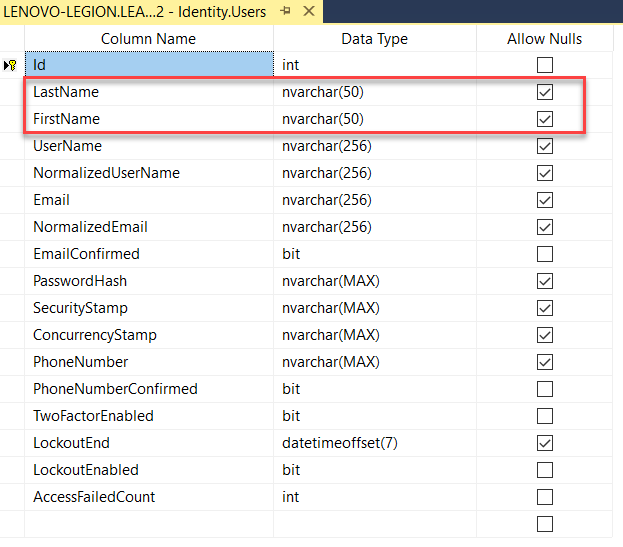
@inject SignInManager<IdentityUser<int>> SignInManager

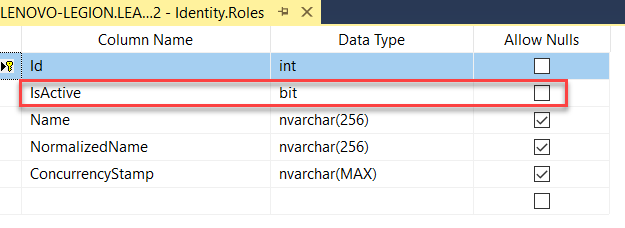
\*@

@inject UserManager<Domain.User> UserManager

@inject SignInManager<Domain.User> SignInManager

* Delete Database (If exists):
  + LEARNING\_ASPNET\_CORE\_SECURITY\_STEP\_02
* In Data folder, Delete Migrations folder.
* PM> add-migration InitialMigration -outputDir Data -namespace Data.Migrations
* PM> update-database





* Run the application and do register and then login for testing.