Initial State

Start with a new Asp.Net Core Web Application using the MVC template with Individual User Accounts.

Add a new model class for custom users.

1. Add a class in the model folder

```
public class CustomIdentityUser
```

2. Add a using directive

```
using Microsoft.AspNetCore.Identity;
```

3. Inherit from IdentityUser

```
public class CustomIdentityUser : IdentityUser
```

4. Add additional properties like "Notes".

```
public string Notes { get; set; }
```

5. Check for errors by building.

Update the database context class to use the new model.

- 1. Open Data\ApplicationDbContext
- 2. Add using directive

```
using WebApplication.Models;
```

3. Modify the base type to use a generic.

```
public class ApplicationDbContext : IdentityDbContext
```

4. Check for errors by building.

Update web application configuration

- 1. open Startup.cs
- 2. Update ConfigureServices

```
services.AddDefaultIdentity<<u>CustomIdentityUser</u>>(options =>
options.SignIn.RequireConfirmedAccount = true)
```

Update partial view

- open views\shared_layout.cshtml
- 2. update DI directives.

```
@inject SignInManager<CustomIdentityUser> SignInManager
@inject UserManager<CustomIdentityUser> UserManager
```

Migrate changes to the database

- 1. Tools NuGet Package Manager Package Manager Console
- 2. add-migrations initialization
- 3. update-database

Add customizable register page.

- 1. Right click project add New Scaffolded Item...
- 2. In the "Add New Scaffolded Item" dialog, select identity. Click "Add".
- 3. Check "Account\Register". Click "Add"

Modify register page to include notes

- 1. Open Areas\Identity\Pages\Account\Register.cshtml
- 2. Add notes after confirm password. After line 29.

```
<div class="form-group">
     <label asp-for="Input.Notes"></label>
     <input asp-for="Input.Notes" class="form-control" />
     <span asp-validation-for="Input.Notes" class="text-danger"></span>
```

Modify register page code behind to include notes

- 1. Open Areas\Identity\Pages\Account\Register.cshtml.cs
- 1. Add notes after confirm password. After line 63.

```
[DataType(DataType.MultilineText)]
[Display(Name = "User Notes")]
public string Notes { get; set; }
```

2. Modify the post behavior to bind to note. Update around line 82.

```
var user = new CustomIdentityUser { UserName = Input.Email, Email =
Input.Email, Notes = Input.Notes };
```

Update test controller to use notes

- 1. Open Controllers\HomeController.cs
- 2. add a using directive.

```
using Microsoft.AspNetCore.Identity;
```

3. add a field to reference a user manager.

```
private readonly UserManager<CustomIdentityUser> _userManager;
```

4. Modify the constructor to support dependency injection.

```
public HomeController(ILogger<HomeController> logger,
UserManager<CustomIdentityUser> userManager)
{
    _logger = logger;
    _userManager = userManager;
}
```

5. Modify the index action to retrieve user.

```
public async Task<IActionResult> Index()
{
    var user = await _userManager.GetUserAsync(User);
    ViewBag.User = user?.UserName;
    ViewBag.Notes = user?.Notes;
    return View();
}
```

6. Modify the index view to show user.

Test your work

- 1. Run the application
- 2. Register a new user with notes
- 3. Verify the user's email and notes appear on the note page