



71.2k 1 9

Download Free .NET & JAVA Files API

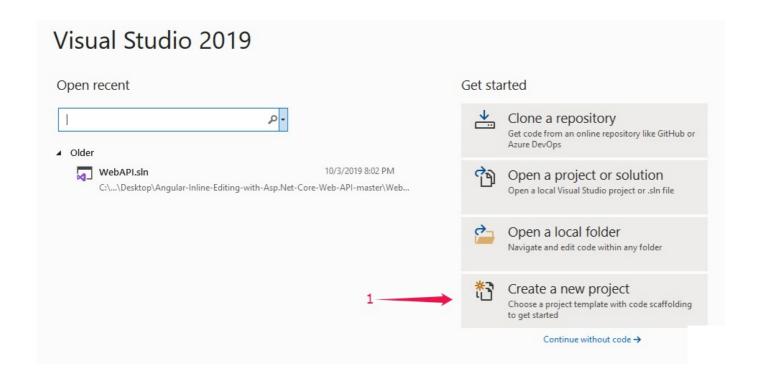
Introduction

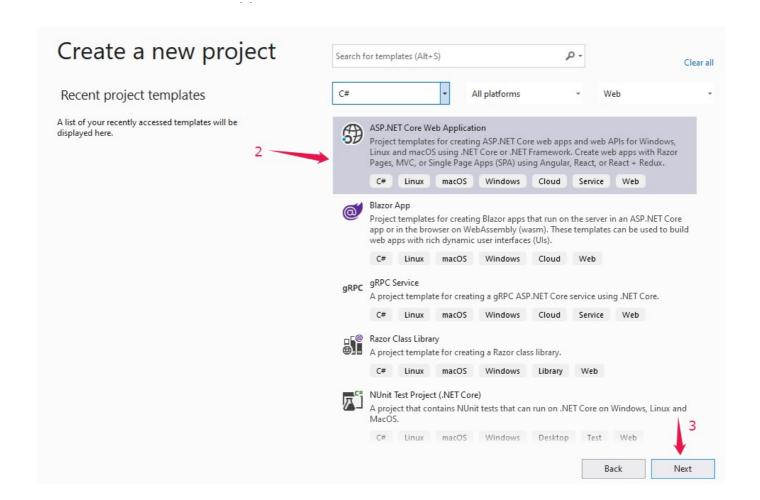
This article explains how to get started with Identity.UI in ASP.Net Core MVC user authentication and registration.

Link to download the project source code here.

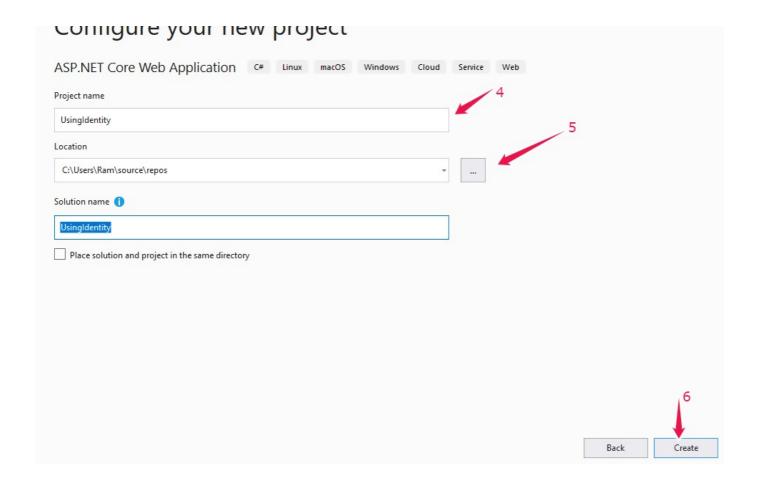
Step 1

Let's create an ASP.NET Core web application. Open Visual Studio 2019 and click on Create a new project.



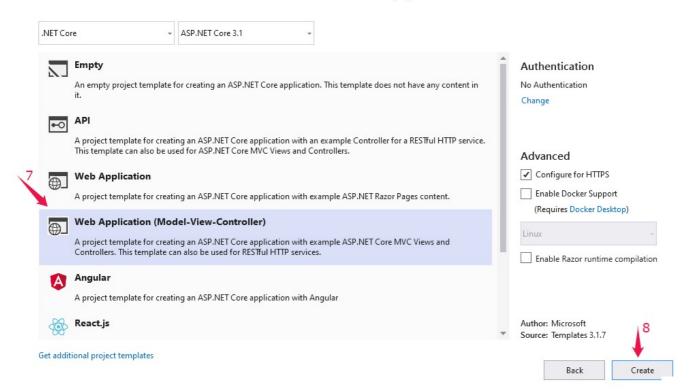


Provide the project name of your choice, select the preferred location & click on Create

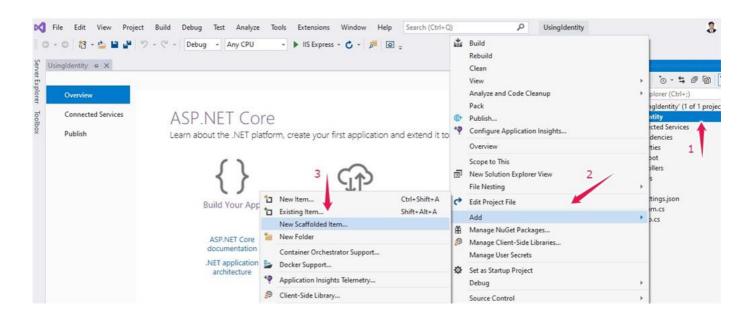


Select MVC Template and click on create, as shown below:

Create a new ASP.NET Core web application



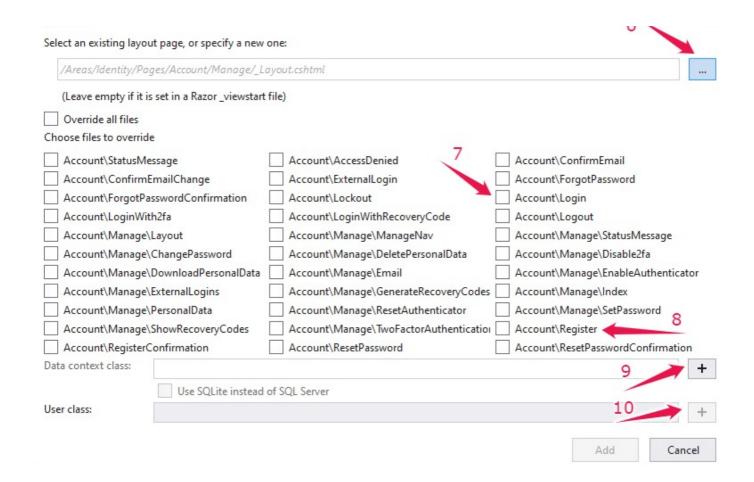
Scaffold item



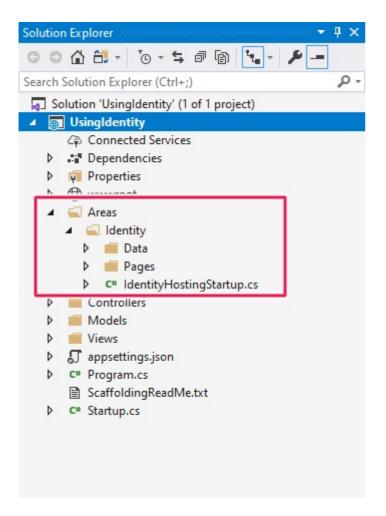
Select Identity and click on add



Now select the layout page, as we want authentication. Let's select login and Register as shown below and provide DbContext class and user class and click on Add



We can find the Areas in the application with Data & Razor pages, as shown below:



Now let's add user authentication to the application. Open the Startup class and Modify as shown below.

In order to add support to the razor pages, we have to call the function services. AddRazorPages() and endpoints. MapRazorPages()

```
01.
     public class Startup
02.
        {
03.
             public Startup(IConfiguration configuration)
04.
                 Configuration = configuration;
05.
06.
07.
             public IConfiguration Configuration { get; }
08.
09.
10.
             // This method gets called by the runtime. Use this method to ad
             public void ConfigureServices(IServiceCollection services)
11.
12.
             {
13.
                 services.AddControllersWithViews();
14.
                 services.AddRazorPages();
15.
             }
16.
17.
             // This method gets called by the runtime. Use this method to co
             public void Configure(IApplicationBuilder app, IWebHostEnvironme
18.
19.
             {
20.
                 if (env.IsDevelopment())
21.
                 {
22.
                     app.UseDeveloperExceptionPage();
23.
                 }
                 else
24.
25.
                     app.UseExceptionHandler("/Home/Error");
26.
27.
                     // The default HSTS value is 30 days. You may want to ch
     hsts.
28.
                     app.UseHsts();
29.
                 app.UseHttpsRedirection();
30.
31.
                 app.UseStaticFiles();
32.
33.
                 app.UseRouting();
34.
                 app.UseAuthentication();
35.
36.
                 app.UseAuthorization();
37.
38.
                 app.UseEndpoints(endpoints =>
39.
40.
                     endpoints.MapControllerRoute(
41.
                         name: "default",
                         pattern: "
42.
     {controller=Home}/{action=Index}/{id?}");
                     endpoints.MapRazorPages();
43.
44.
                 });
             }
45.
```

Step 4

Now let's start with creating the database for the application.

Open UsingIdentityUser class and add the properties and decorate with the attribute PersonalData.

```
public class UsingIdentityUser : IdentityUser
02.
        {
03.
             [PersonalData]
             [Column(TypeName ="nvarchar(100)")]
04.
05.
             public string Firstname { get; set; }
06.
             [PersonalData]
             [Column(TypeName = "nvarchar(100)")]
07.
             public string LastName { get; set; }
08.
        }
09.
```

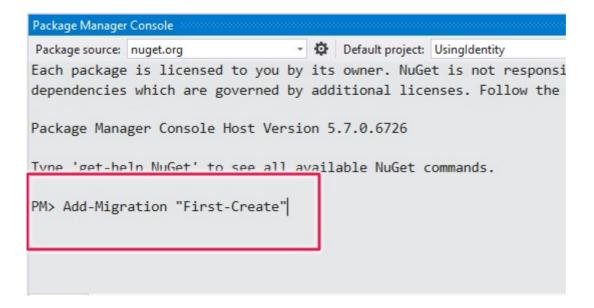
We have Dbcontext, which is also inherited from the parent class IdentityDB context. This identity db context is injected inside this identityhostingstartup class.

```
01.
     public class IdentityHostingStartup : IHostingStartup
02.
        {
03.
             public void Configure(IWebHostBuilder builder)
04.
             {
                 builder.ConfigureServices((context, services) => {
05.
06.
                     services.AddDbContext<UsingIdentityContext>
     (options =>
07.
                         options.UseSqlServer(
                             context.Configuration.GetConnectionString("Using
08.
09.
10.
                     services.AddDefaultIdentity<UsingIdentityUser>
     (options => options.SignIn.RequireConfirmedAccount = true)
11.
                         .AddEntityFrameworkStores<UsingIdentityContext>
     ();
                 });
12.
13.
             }
        }
14.
```

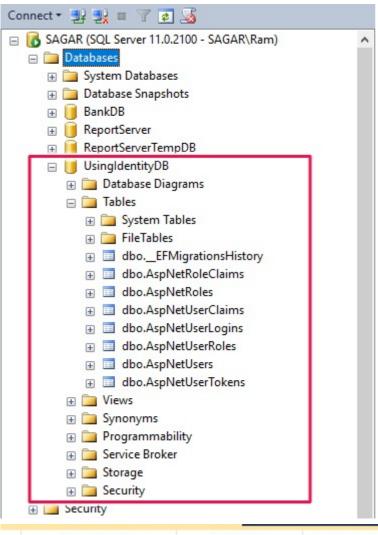
Now open appsttings.json. We can find the connection string with the name UsingIdentityContextConnection. By default, it will connect to the local DB.

```
01.
        "Logging": {
02.
          "LogLevel": {
03.
            "Default": "Information",
04.
            "Microsoft": "Warning",
05.
            "Microsoft.Hosting.Lifetime": "Information"
06.
07.
          }
08.
09.
        "AllowedHosts": "*"
        "ConnectionStrings": {
10.
11
```

Now open the Package manager console and Execute the command Add-Migration "First-Create" to generate the actual physical DB

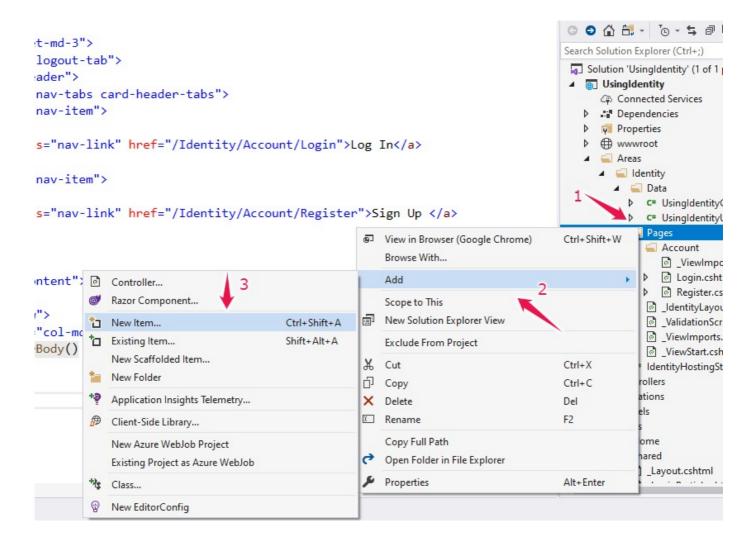


Finally, execute the command Update-Database and you can find the new database as shown below.

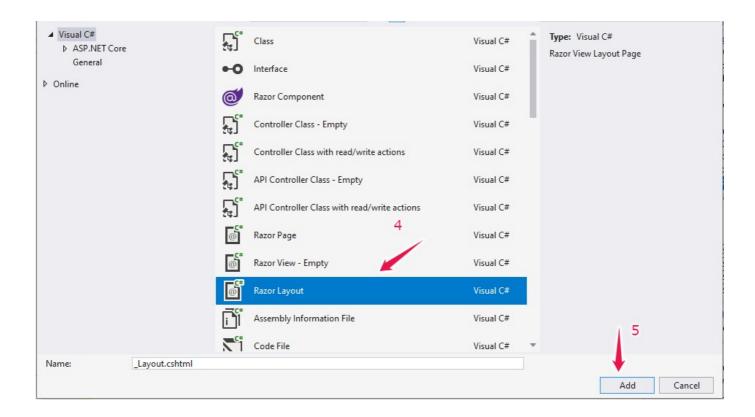


	Column Name	Data Type	Allow Nulls
₽ ®	ld	nvarchar(450)	
	UserName	nvarchar(256)	\checkmark
	NormalizedUserName	nvarchar(256)	\checkmark
	Email	nvarchar(256)	
	NormalizedEmail	nvarchar(256)	
	EmailConfirmed	bit	
	PasswordHash	nvarchar(MAX)	$\overline{\checkmark}$
	SecurityStamp	nvarchar(MAX)	\checkmark
	ConcurrencyStamp	nvarchar(MAX)	\checkmark
	PhoneNumber	nvarchar(MAX)	\checkmark
	PhoneNumberConfirmed	bit	
	TwoFactorEnabled	bit	
	LockoutEnd	datetimeoffset(7)	$\overline{\checkmark}$
	LockoutEnabled	bit	
	AccessEailedCount	int	
	Firstname	nvarchar(100)	☑
	LastName	nvarchar(100)	
_			

Now let's start customizing the application. Let's add a Nested layout for tab control headers.



Select Razor layout and click on Add



Customize the layout as below

```
01.
    @{
02.
        Layout = "/Views/Shared/ Layout.cshtml";
03.
    <div class="row">
04.
05.
        <div class="col-md-6 offset-md-3">
            <div class="card login-logout-tab">
06.
               <div class="card-header">
07.
                   08.
                      09.
10.
                          <a class="nav-
11.
    link" href="/Identity/Account/Login">Log In</a>
12.
                      13.
                      14.
15.
                          <a class="nav-
    link" href="/Identity/Account/Register">Sign Up </a>
                      16.
                   17.
18.
               </div>
               <div class="card-content">
19.
20.
                   <div class="row">
21.
                      <div class="col-md-12">
22.
23.
                          @RenderBody()
                      </div>
24.
                   </div>
25.
               </div>
26.
27.
28.
           </div>
```

```
JI.
     @section Scripts{
32.
33.
         @RenderSection("Scripts", required: false)
          <script>
34.
35.
              $(function () {
36.
                  var current = location.pathname;
37.
38.
                  $('.nav-tabs li a').each(function () {
39.
                      var $this = $(this);
                      if (current.indexOf($this.attr('href')) !== -1) {
40.
                          $this.addClass('active');
41.
42.
                      }
43.
                  })
44.
              })
45.
         </script>
46. }
```

Open site.css and use the below styles

```
/*for Tab control*/
01.
02.
     div.login-logout-tab div.card.header{
03.
         padding: Opx Opx 12px Opx;
04.
     div.login-logout-tab li.nav-tabs{
05.
06.
07.
         margin: 0px 0px -12px 0px;
08.
     div.login-logout-tab li.nav-item{
09.
10.
11.
         width:50%
12.
13.
     div.login-logout-tab a.nav-link{
14.
         font-size:25px;
         color:#495057;
15.
         text-align:center;
16.
17. }
```

Modify the Login page and register the HTML pages with our new layout.

```
01.
     @page
02.
     @model LoginModel
03.
04.
     @{
         ViewData["Title"] = "Log in";
05.
         Layout = "~/Areas/Identity/Pages/_IdentityLayout.cshtml";
06.
07.
     }
08.
     <div class="col-md-10 offset-md-1">
09.
         <section>
10.
             @*<div class="login-form-icon">
11.
12.
                  <i class="fas fa-user-circle fa-5x text-secondary">
     </i>
13.
              </div>*@
              @*fas fa-user-circle fa-9x text-secondary*@
14.
              <form id="account" method="post">
15.
```

```
1/.
                  <alv class="torm-group">
                      <label asp-for="Input.Email"></label>
18.
19.
                      <input asp-for="Input.Email" class="form-</pre>
     control" />
20.
                      <span asp-validation-for="Input.Email" class="text-</pre>
     danger"></span>
                  </div>
21.
22.
                  <div class="form-group">
                      <label asp-for="Input.Password"></label>
23.
24.
                      <input asp-for="Input.Password" class="form-</pre>
     control" />
                      <span asp-validation-for="Input.Password" class="text-</pre>
25.
     danger"></span>
26.
                  </div>
27.
                  <div class="form-group">
28.
                      <div class="checkbox">
                           <label asp-for="Input.RememberMe">
29.
                               <input asp-for="Input.RememberMe" />
30.
                               @Html.DisplayNameFor(m => m.Input.RememberMe)
31.
32.
                           </label>
33.
                      </div>
                  </div>
34.
35.
                  <div class="form-group">
                      <button type="submit" class="btn btn-primary btn-</pre>
36.
     block">Log in
                  </div>
37.
              </form>
38.
39.
         </section>
40.
41.
     </div>
42.
     @section Scripts {
43.
44.
          <partial name="_ValidationScriptsPartial" />
45.
     }
46.
47.
     @page
48.
     @model RegisterModel
49.
     @{
         ViewData["Title"] = "Register";
50.
          Layout = "~/Areas/Identity/Pages/_IdentityLayout.cshtml";
51.
52.
     }
53.
54.
     <h1>@ViewData["Title"]</h1>
55.
56.
     <form asp-route-returnUrl="@Model.ReturnUrl" method="post">
57.
          <div asp-validation-summary="All" class="text-danger"></div>
58.
          <div class="row">
59.
              <div class="col-md-6">
60.
                  <div class="form-group">
61.
                      <label asp-for="Input.FirstName"></label>
62.
                      <input asp-for="Input.FirstName" class="form-</pre>
63.
     control" />
                      <span asp-validation-</pre>
64.
     for="Input.FirstName" class="text-danger"></span>
                  </div>
65.
```

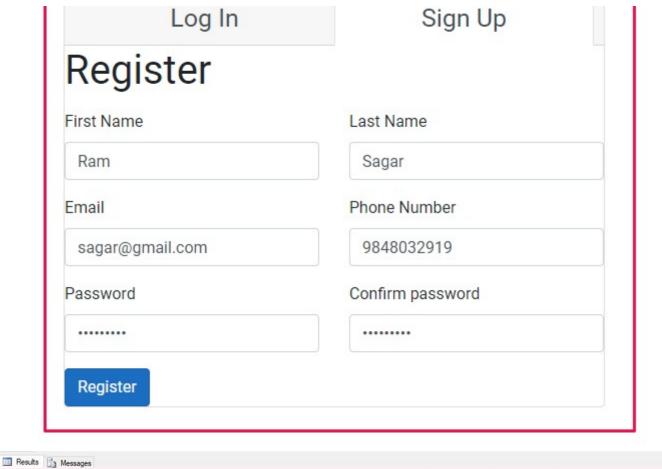
```
68.
               <alv class="col-ma-b">
                    <div class="form-group">
 69.
                        <label asp-for="Input.LastName"></label>
 70.
                        <input asp-for="Input.LastName" class="form-</pre>
 71.
       control" />
                        <span asp-validation-for="Input.LastName" class="text-</pre>
 72.
       danger"></span>
 73.
                    </div>
               </div>
 74.
 75.
           </div>
           <div class="row">
 76.
               <div class="col-md-6">
 77.
                    <div class="form-group">
 78.
                        <label asp-for="Input.Email"></label>
 79.
 80.
                        <input asp-for="Input.Email" class="form-</pre>
       control" />
                        <span asp-validation-for="Input.Email" class="text-</pre>
 81.
       danger"></span>
 82.
                    </div>
 83.
               </div>
 84.
               <div class="col-md-6">
                    <div class="form-group">
 85.
                        <label asp-for="Input.PhoneNumber"></label>
 86.
                        <input asp-for="Input.PhoneNumber" class="form-</pre>
 87.
       control" />
 88.
                        <span asp-validation-</pre>
       for="Input.PhoneNumber" class="text-danger"></span>
 89.
                    </div>
               </div>
 90.
 91.
           </div>
 92.
           <div class="row">
 93.
 94.
               <div class="col-md-6">
                    <div class="form-group">
 95.
                        <label asp-for="Input.Password"></label>
 96.
                        <input asp-for="Input.Password" class="form-</pre>
 97.
       control" />
 98.
                        <span asp-validation-for="Input.Password" class="text-</pre>
       danger"></span>
                    </div>
 99.
100.
               </div>
               <div class="col-md-6">
101.
                    <div class="form-group">
102.
                        <label asp-for="Input.ConfirmPassword"></label>
103.
                        <input asp-for="Input.ConfirmPassword" class="form-</pre>
104.
       control" />
                        <span asp-validation-</pre>
105.
       for="Input.ConfirmPassword" class="text-danger"></span>
106.
                    </div>
               </div>
107.
           </div>
108.
109.
110.
           <button type="submit" class="btn btn-</pre>
       primary">Register</button>
111.
       </form>
112.
```

```
TT2 · }
```

In order to display the active tab, we need to add an active class, as shown below.

```
@section Scripts{
01.
02.
03.
         @RenderSection("Scripts", required: false)
04.
         <script>
05.
             $(function () {
06.
                  var current = location.pathname;
07.
                  $('.nav-tabs li a').each(function () {
08.
09.
                      var $this = $(this);
                      if (current.indexOf($this.attr('href')) !== -1) {
10.
                          $this.addClass('active');
11.
12.
                      }
13.
                  })
14.
              })
15.
         </script>
16. }
```

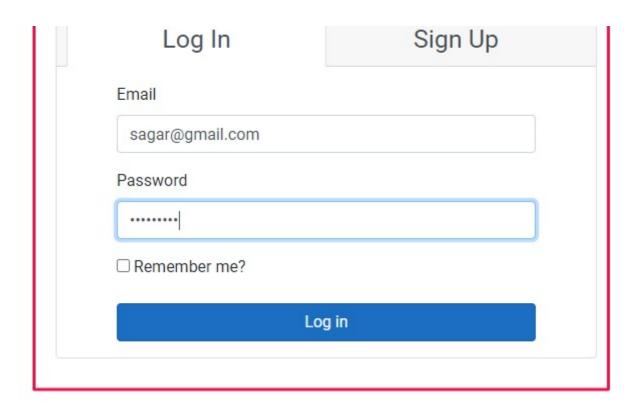
Let's see the output and register a user.

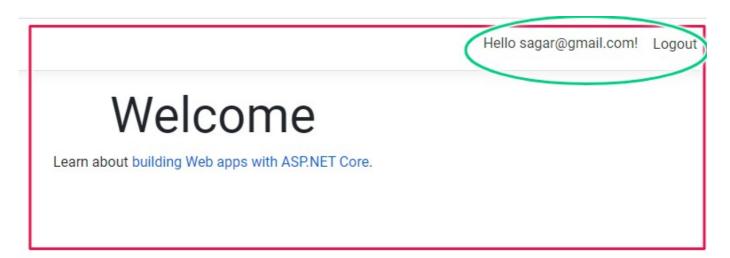


Id UserName NomalizedUserName Email NomalizedEmail EmailConfirmed PasswordHash

1 7/4c386c-095b-4054-a618-c92b26c6573d sagar@gmail.com SAGAR@GMAIL.COM sagar@gmail.com SAGAR@GMAIL.COM 1 AQAAAAEAACcQAAAAEKwSg+hU6wqDqlPa49vQOP

Now let's login with the registered user.





Conclusion

In this article, we discussed how to use Identity UI in ASP.NET Core MVC application by creating a database using the package manager console & commands. I hope you all enjoyed reading this and learned from it.



CAUDO AUU







Mar 22, 2021

Reply



Ramasagar Pulidindi 10P 500

"A Journey of Thousand miles must start with a single Step"I started my programming career with C/C++, Java in my B. Tech days. Later, I got a chance to develop Windows Forms applications using C# and Web appli... Read more

https://www.c-sharpcorner.com/members/ramasagar-pulidindi

198 1.4m 3

9 1



Type your comment here and press Enter Key (Minimum 10 characters)



After LogIn, the Hello @Username and logout doesn't appear FPL Pramit

NA 71 0 0 0

FEATURED ARTICLES

Test Coverage For PowerShell Scripts With Pester

Dynamic CSS Values In Blazor

Migrating a SQL laaS Database To Azure SQL Using DMA (Data Migration Assistant)

Create a Redis Cache with Express Node JS

Symmetrical Repository Pattern - Data Access Made Easy In .NET

TRENDING UP

01 Azure Duration Functions - How To Use And Implement It

- 03 Log Correlation In Microservices
- 04 Create A PowerApps Component Framework (PCFx) Using Custom Code In PowerAPPs
- 05 How To Handle Nullable Reference In .NET 6
- 06 Import PowerApps Component Framework (PCFx) Into Model Driven PowerApps
- 07 Growth Mindset Show Ep. 11 2022
- 08 Safest Way To Convert String To Int In C#
- 09 Creating Various Layouts For Different Razor Pages In Blazor
- 10 Top Three VS Code Extensions Worth The Money



Learn JavaScript

CHALLENGE YOURSELF



Blockchain Basics Skill

GET CERTIFIED



HTML5 Developer

About Us Contact Us Privacy Policy Terms Media Kit Sitemap Report a Bug FAQ Partners

C# Tutorials Common Interview Questions Stories Consultants Ideas Certifications

©2022 C# Corner. All contents are copyright of their authors.