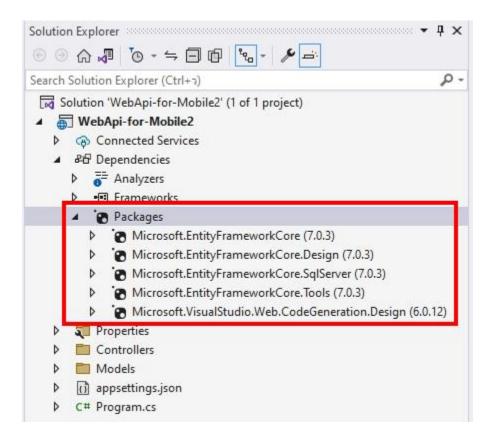
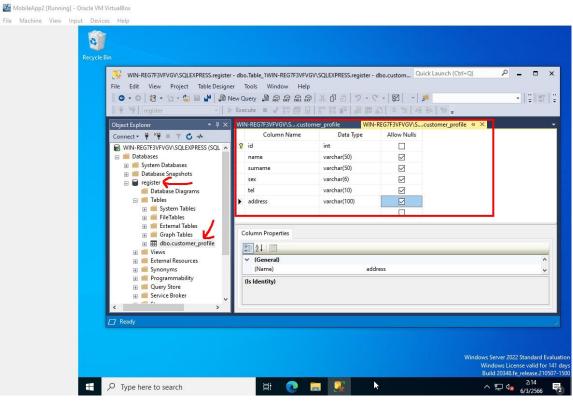
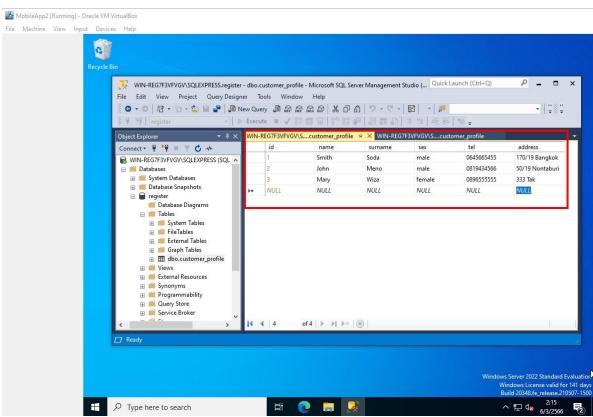
Create Web API and Connect to SQL Server.

1. Install the following packages.

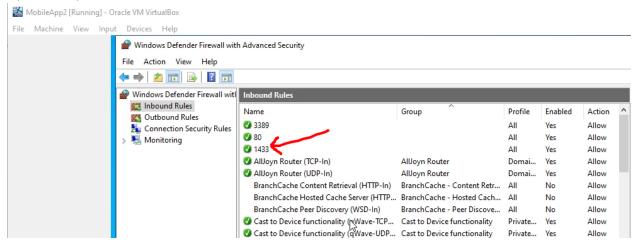


2. Create the database and table and also add the sample data to the table.

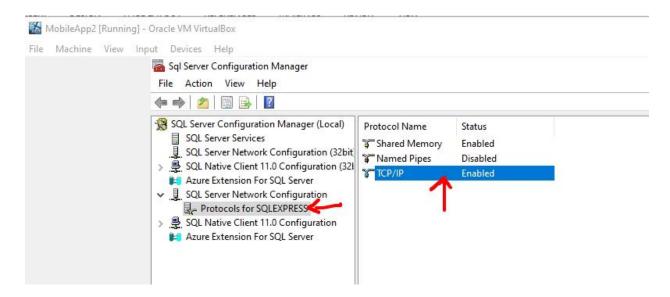


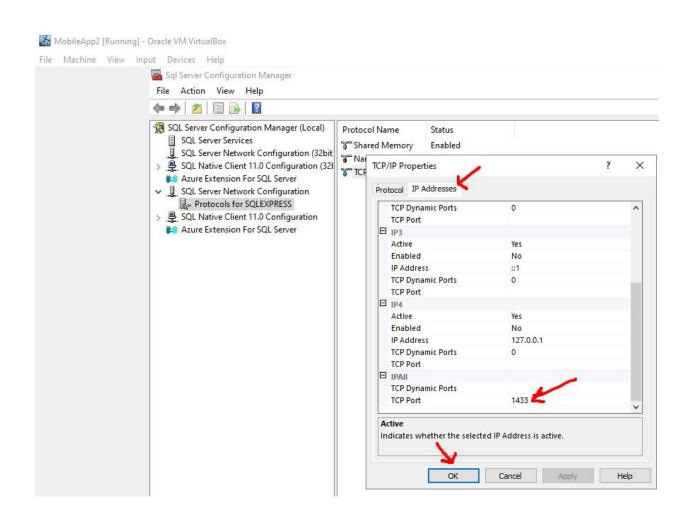


3. Open 1433 port in Windows firewall on Windows Server 2022.

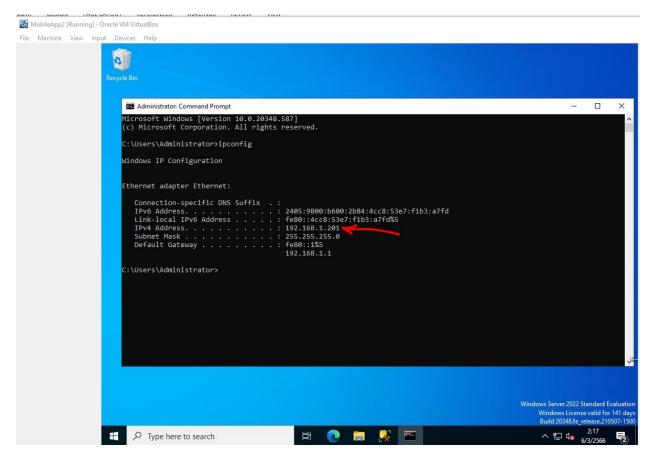


4. Enable IP and Port SQL Server on Windows Server 2022.

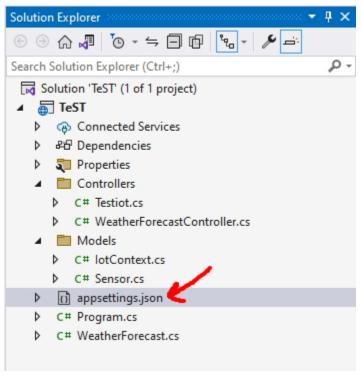




5. Check IP Address on Windows Server 2022.

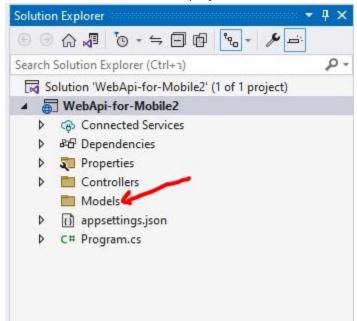


6. Create the Connection Strings in appsettings.json



```
Schema: https://json.schemastore.org/appsettings.json
           戸 {
           "Logging": {
      2
                  "LogLevel": {
      3
                    "Default": "Information",
"Microsoft.AspNetCore": "Warning"
      4
      5
                 }
      6
      7
               },
          8
      9
                "ConnectionStrings": {
                  "Mobile": "Server=192.168.1.201,1433;Database=register;Trusted_Connection=True;Encrypt=False;"
     10
     11
               },
     12
     13
     14 
              "AllowedHosts": "*"
     15
     16
```

7. Create "Models" folder on the project.



8. Using Scaffold-DbContext for building class files which are connected to the database.

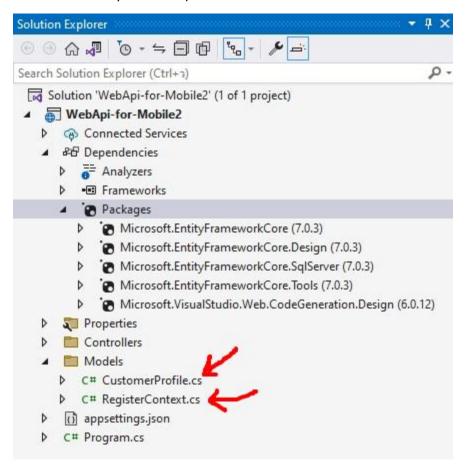


You can copy the following script below.

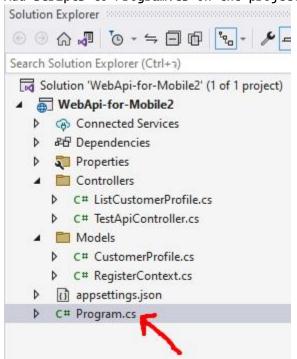
Scaffold-DbContext 'Server=192.168.1.201,1433;Initial Catalog=register;Persist Security Info=False;User

ID=sa;Password=1234;MultipleActiveResultSets=true;Encrypt=false;TrustServerCertifica
te=False;Connection Timeout=30;' Microsoft.EntityFrameworkCore.SqlServer -OutputDir
Models

After the script is ran, the class files will be build

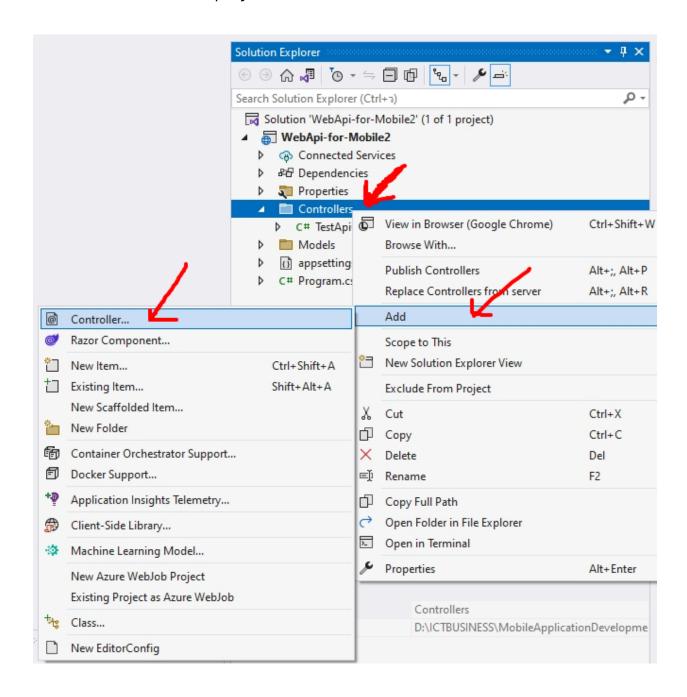


9. Add scripts to Program.cs on the project.

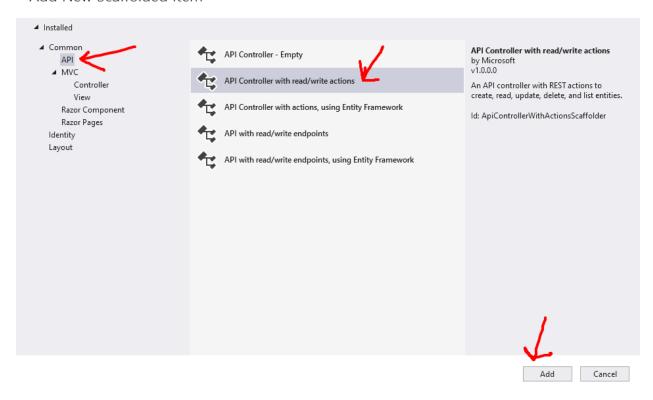


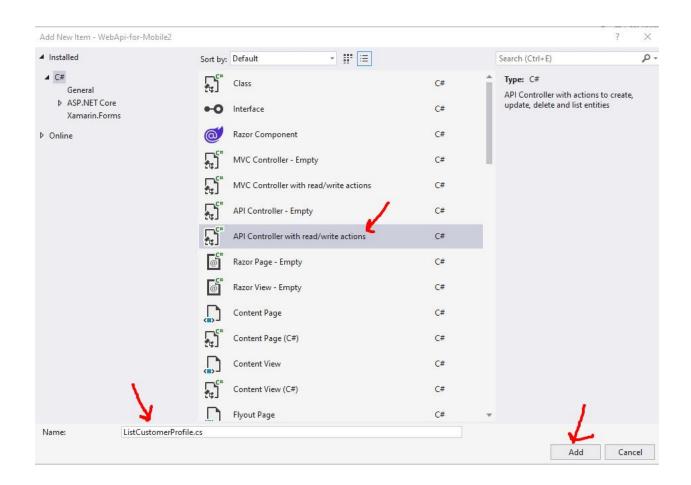
```
using Microsoft.EntityFrameworkCore; 🧲
{ j
             using WebApi_for_Mobile2.Models;
             var builder = WebApplication.CreateBuilder(args);
              // Add services to the container.
             builder.Services.AddControllersWithViews();
             builder.Services.AddDbContext<RegisterContext>(options => options.UseSqlServer(builder.Configuration.GetConnectionString("Mobile")));
     10
11
12
             var app = builder.Build();
             // Configure the HTTP request pipeline
     13
            ☐if (!app.Environment.IsDevelopment())
     14
     15
                  app.UseExceptionHandler("/Home/Error");
// The default HSTS value is 30 days. You may want to change this for production scenarios, see <a href="https://aka.ms/aspnetcore-hsts">https://aka.ms/aspnetcore-hsts</a>.
     16
     17
     18
     19
20
             app.UseHttpsRedirection();
     220
             app.UseAuthorization();
     25
26
             app.MapControllers();
             app.Run();
```

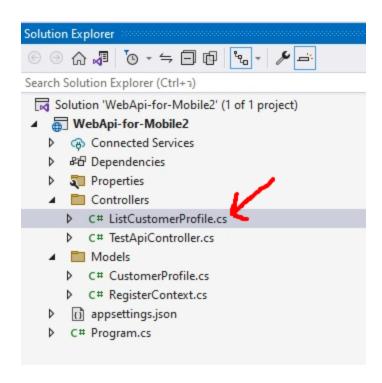
10. Create Web API that can query data from database.



Add New Scaffolded Item

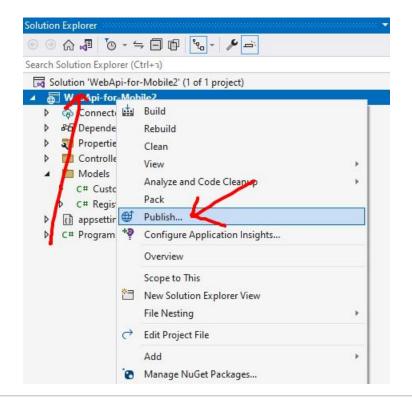






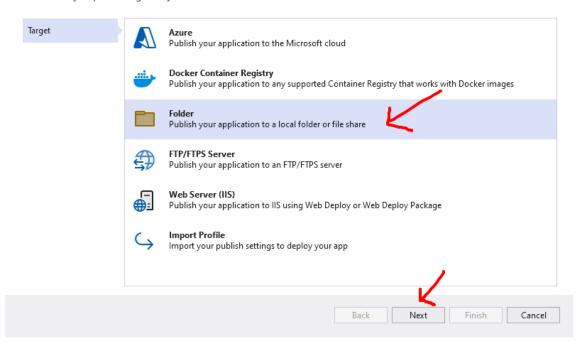
```
ListCustomerProfile.cs 🕫 🗙
WebApi-for-Mobile2
                                    → 😭 Get()
              using Microsoft.EntityFrameworkCore;
              using Microsoft.Extensions.Hosting;
        3
              using WebApi_for_Mobile2.Models;
        4
        5
             □ namespace WebApi_for_Mobile2.Controllers
        6
        7
                   [Route("api/[controller]")]
        8
                   [ApiController]
        9
                  1 reference
                  public class ListCustomerProfile : ControllerBase
  O1
       10
       11
                       private readonly RegisterContext _context;
       12
                       public ListCustomerProfile(RegisterContext context)
       13
                       {
       14
       15
                           _context = context;
       16
       17
       18
                       // GET: api/<ListCustomerProfile>
       19
                       [HttpGet]
       20
                       0 references
                       public IEnumerable<CustomerProfile> Get()
       21
                       {
       22
                           return _context.CustomerProfiles;
       23
                       }
       24
       25
                       //GET api/<ListCustomerProfile>/5
       26
       27
                       [HttpGet("{id}")]
                       public CustomerProfile Get(int id)
       28
       29
                           return _context.CustomerProfiles.FirstOrDefault(s => s.Id == id);
       30
       31
       32
       33
```

11. Publish the project to Windows Server 2022



Publish

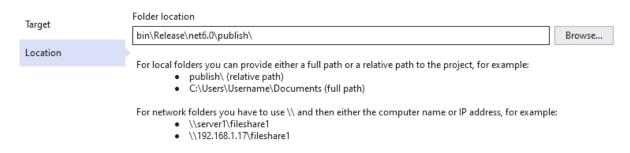
Where are you publishing today?

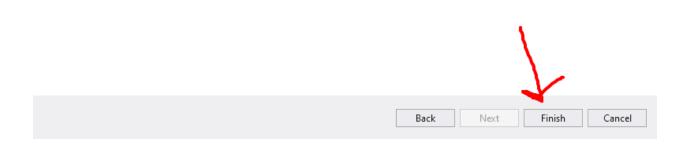


х

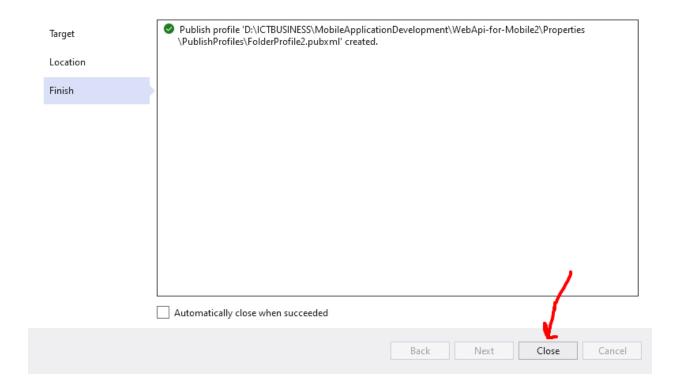
Publish

Provide the path to a local or network folder



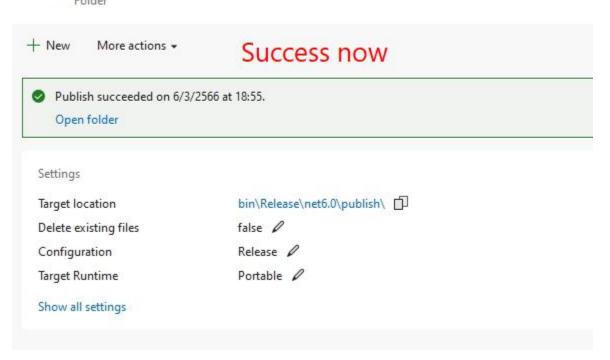


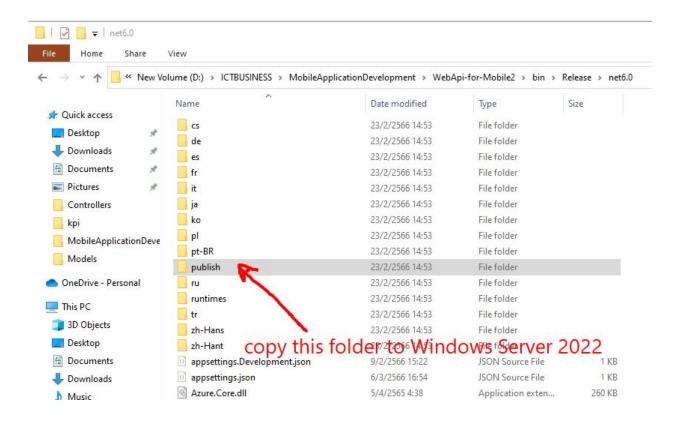
Publish profile creation progress

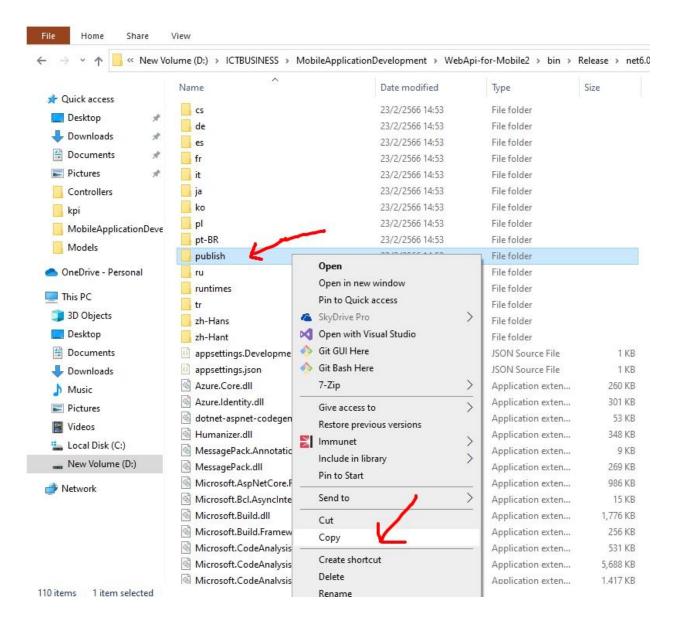


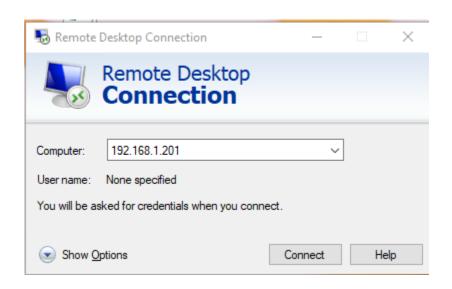




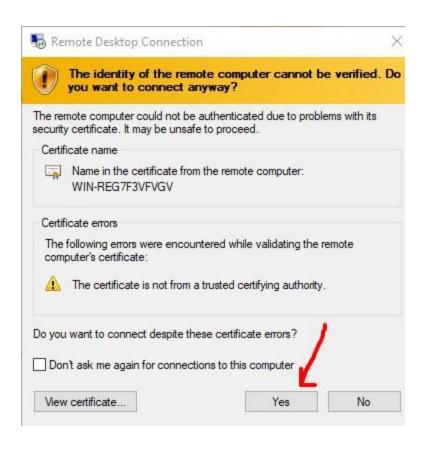


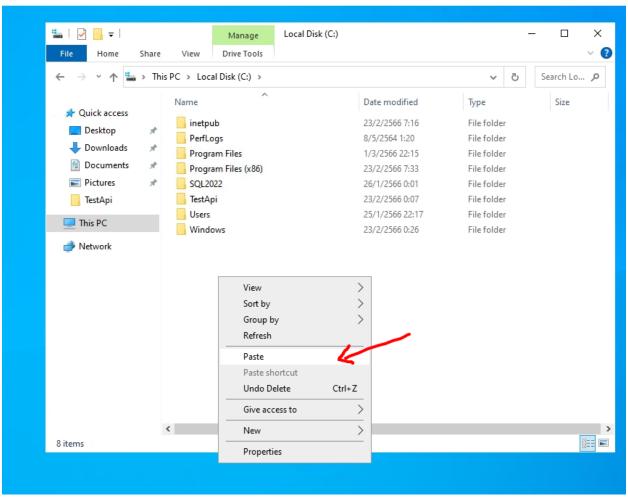


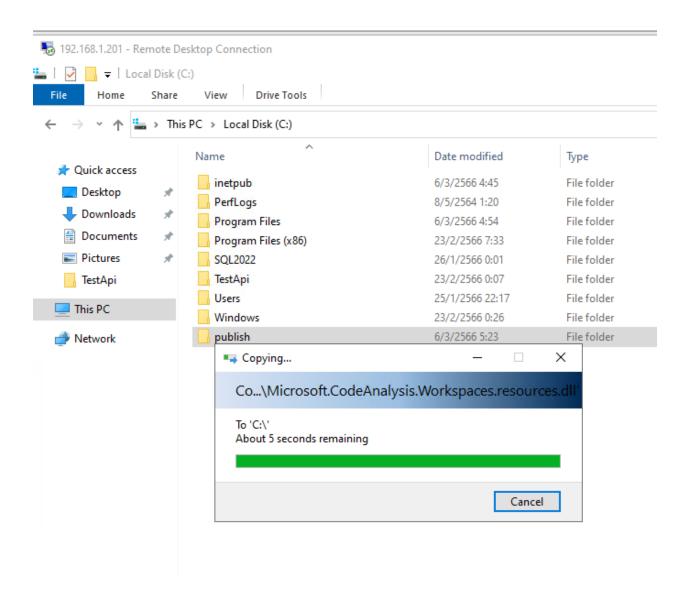


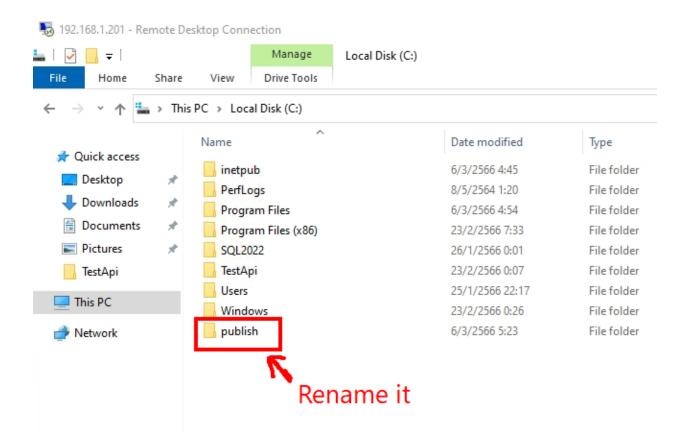


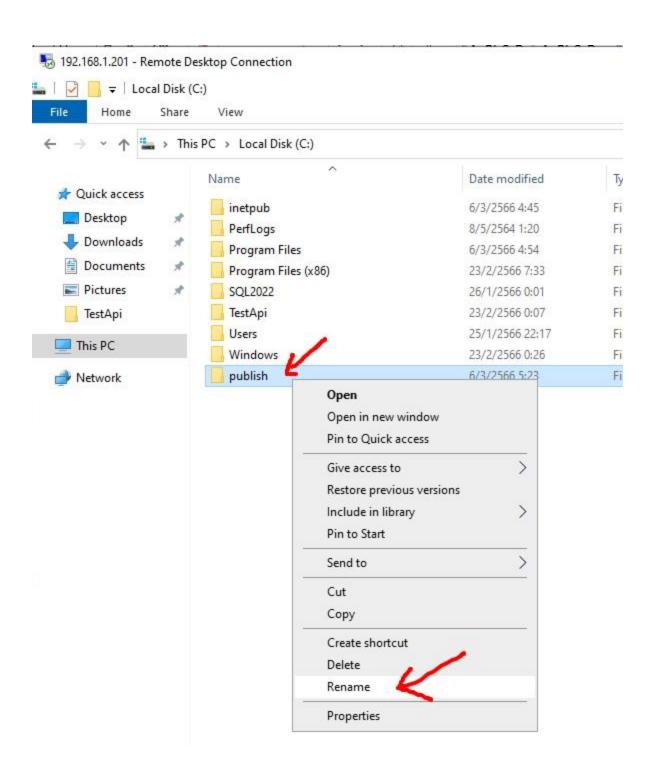


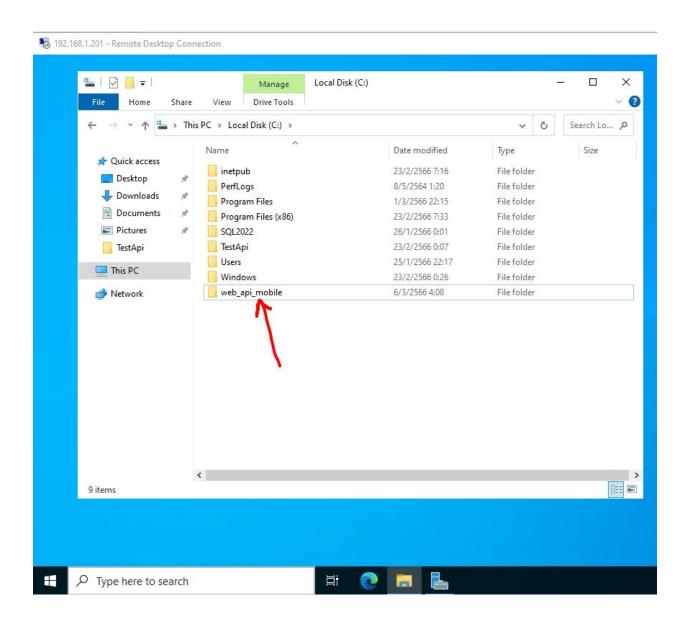




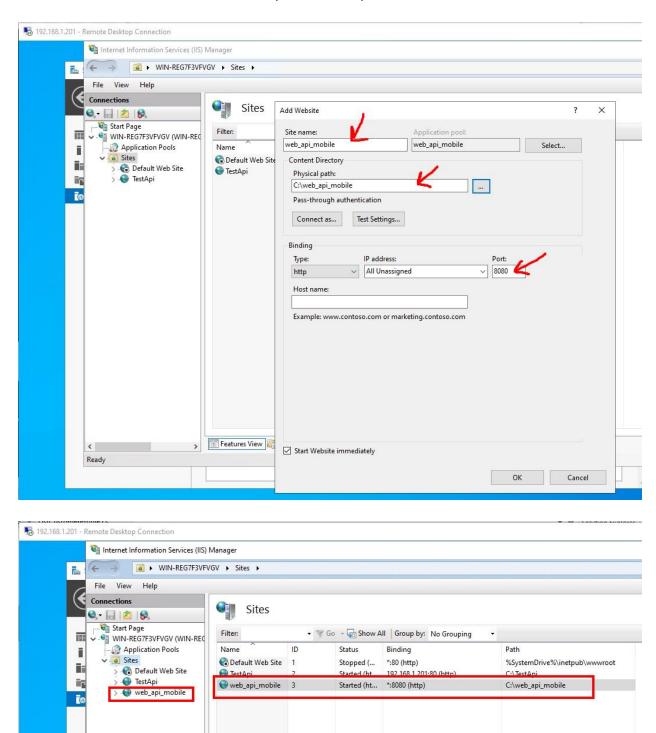




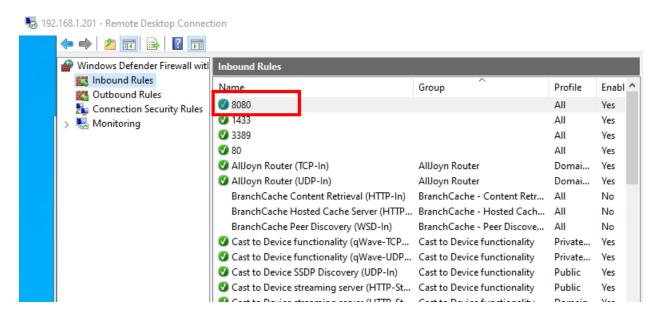




12. Add to IIS web server and also define 8080 port for web api.



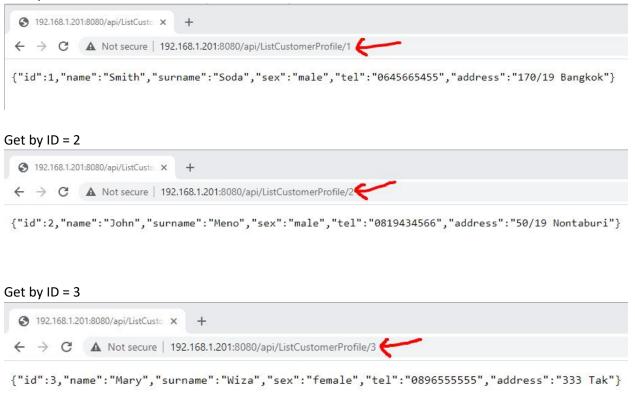
13. Open 8080 port on Windows Server 2022



14. Test web api on our computer (Client).

Get All

Get by ID = 1



The END

Editor by Rakchanok Sukagalanan