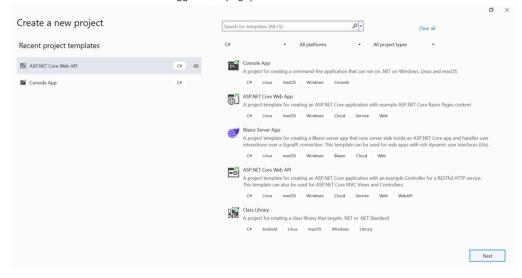
Visual Studio 2022

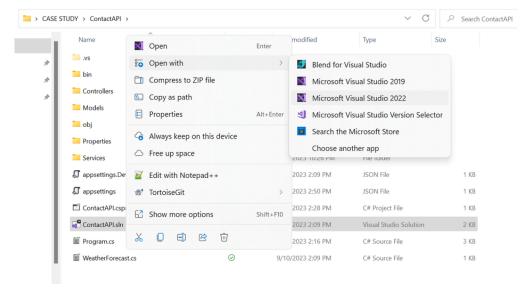
• Download Download Visual Studio Tools - Community Version



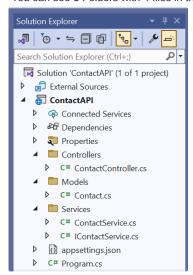
• You need to open a new project by selecting ASP.NET Core Web API (Just enter Project Name, all other values - default, Now run it to see default Weather Forecast Swagger Web page)



• For now just open the Folder in it (2022)



· You can see 3 Folders with 4 files in them.



Models - Contact.cs has all the basic attributes

```
pnamespace ContactAPI.Models
{
   public class Contact
{
     public string? firstname { get; set; }
     public string? lastname { get; set; }
     public string? gender { get; set; }
     public string? dob { get; set; }
     public string? email { get; set; }
     public string? phone { get; set; }
     public string? city { get; set; }
     public string? state { get; set; }
```

• Services - IContactService.cs has all the function definitions

```
using ContactAPI.Models;

Enamespace ContactAPI.Services
{
    public interface IContactService
    {
        void AddContact(Contact contact);
        2 references
        Contact GetContact(int id);
        2 references
        List<Contact> GetContacts();
        2 references
        void EditContact(Contact contact);
        2 references
        void DeleteContact(int id);
}
```

 $\circ~$ Services - ContactService.cs has the declarations of all the defined functions

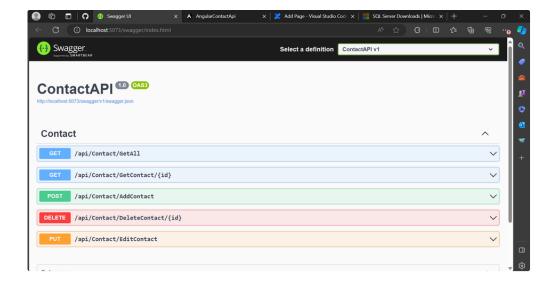
```
public void AddContact(Contact contact)
{
    try
    {
        command = new SqlCommand($"insert into contact values(|'{contact.firstname}', '{contact.lastname}', '{contact.genc connection.Open(); //opne the connection to the db command.ExecuteNonQuery();
    }
    catch (Exception)
    {
        throw;
    }
    finally
    {
        connection.Close();
    }
}

2 references
public void DeleteContact(int id)
    {
        throw is public void DeleteContact(int id)
    }
}
```

o Controllers - ContactController.cs uses those functions and generated the links for hitting API

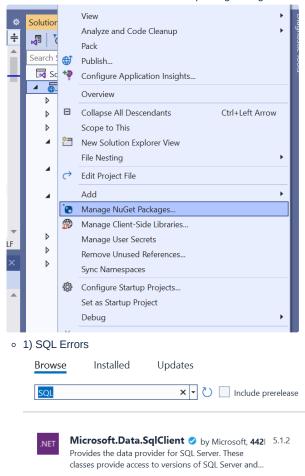
```
| Route("api/[controllers"]")]
| [ApiController]")]
| [ApiController]
| //[Authorize]
| [AllowAnonymous]
| 1 reference
| public class ContactController: ControllerBase
| {
| private readonly ContactService contactService;
| 0 references
| public ContactController(ContactService contactService)
| {
| this.contactService = contactService;
| }
| [HttpGet, Route("GetAll")]
| 0 references
| public IActionResult GetAllContacts()
| {
```

• Now if you run it you can see this output

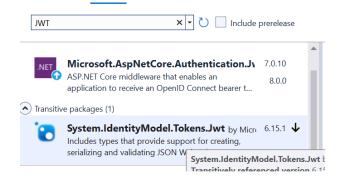


To fix ERRORS use these:

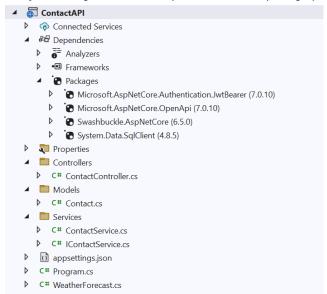
• To remove errors 1st download these 2 packages. Right Click on Folder name → Manage Nuget Packages



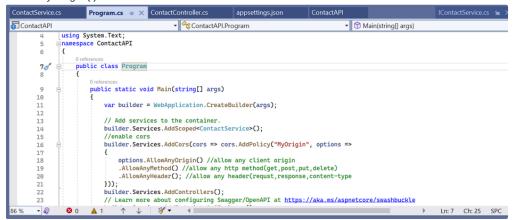
o 1) JWT Errors



• Now your Packages looks like this (Other 2 are default packages)

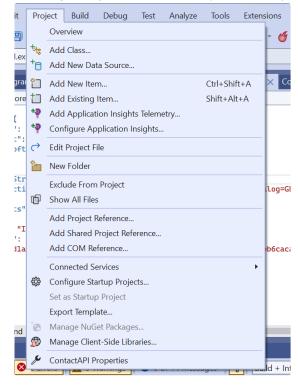


• Allow Any Origin ()



• SQL Connection (Change Data Source->"./SQLEXPRESS" + Initial Catalog-" Database name ")

• To run it, goto Project → ContactAPI Properties → Setup StartUp Object → ContactAPI.program



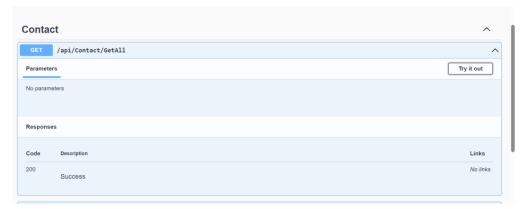
Startup object

Defines the entry point to be called when the application loads. Generally this is s the main form in your application or to the 'Main' procedure that should run whe application starts. Class libraries do not define an entry point.

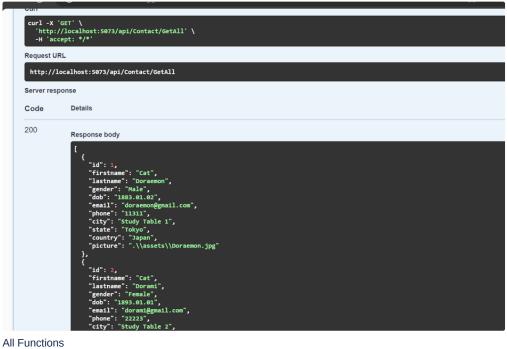
ContactAPI.Program •

OUTPUT checking

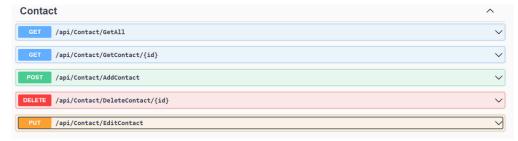
• Click on Try it Out → Execute



• Now you can see all the database values here



All Functions



- o GetAll Gives all the details which are in the database.
- o GetContact{id} Provides Contact details based on Contact Id
- AddContact Need to provide the details to add the new user.
- DeleteContact{id}- Provide Id to delete the contact.
- EditContact Provide the specific id which is already existing & change the details to new ones.