**Configuring codebase in visual studio 2019**

1. Download and Install visual studio (link : <https://visualstudio.microsoft.com/downloads/> ). We have used visual studio 2019 community version.
2. Download the codebase “**TSIApiWebApp” directory**. The directory must contain-
3. [TSIApiWebApp.Core](https://github.com/tsiAILAB/DotNetCore/tree/master/TSIApiWebApp/TSIApiWebApp.Core). (All the model classes)
4. [TSIApiWebApp.Data](https://github.com/tsiAILAB/DotNetCore/tree/master/TSIApiWebApp/TSIApiWebApp.Data). (All the classes of DB interactions and others)
5. [TSIApiWebApp](https://github.com/tsiAILAB/DotNetCore/tree/master/TSIApiWebApp/TSIApiWebApp) (Main application) and
6. [TSIApiWebApp.sln](https://github.com/tsiAILAB/DotNetCore/blob/master/TSIApiWebApp/TSIApiWebApp.sln)
7. This project is divided into three sections: TSIApiWebApp, TSIApiWebApp.Core and TSIApiWebApp.
8. Double click on the **TSIApiWebApp.sln** file from the firectory **TSIApiWebApp**. Project will be opened in visual studio.
9. Visual studio comes with built in IIS and localDb. Therefore, no need to install these to run the project from visual studio.
10. **DB configuration:**

* Connection string is written in [**TSIApiWebApp**](https://github.com/tsiAILAB/DotNetCore/tree/master/TSIApiWebApp/TSIApiWebApp)🡪 **appsettings.json** file. User id and password will be declared here. In this code, root is used as a user id. Change it accordingly if needed.

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* Please check **TSIApiWebApp.Data** 🡪 **TSIApiWebApp.Data.csproj** file, whether below are added in PackageReference:

Microsoft.EntityFrameworkCore(version 3.1.3), Microsoft.EntityFrameworkCore.Design(version 3.1.3) and Microsoft.EntityFrameworkCore.SqlServer(version 3.1.3)

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* If not, please add these as NuGet packages from

Solution explorer 🡪 TSIApiWebApp.Data (right button click) 🡪 Manage NuGet packages.

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* Search for these 3 frameworks in NuGet Package Manager window and install these.
* Go to PowerShell window of TSIApiWebApp.Data folder from file explorer.

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To create DB table from entity classes, write these following commands in PowerShell window.

**dotnet ef migrations add [migration name] -s ..\TSIApiWebApp\ TSIApiWebApp.csproj**

**dotnet ef database update -s ..\TSIApiWebApp\TSIApiWebApp.csproj**

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After these, tables will be created according to the entity class.

1. Project is ready to run with DB access. All the APIs are in **controller** folder. To upload image UploadImagesController.cs is used.