**To enable Powershell to run scripts**, set the following command in Powershell (open as Administrator)

Set-ExecutionPolicy -Unrestricted

Create webapi project

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| --- | --- |
| Create a new dotnet project | **Ideal>** dotnet new sln |
| Create webapi project. Also define output directory api | **Ideal>** dotnet new webapi –n api |
| Add api to the solution project template | **Ideal>** dotnet sln add api |
|  |  |
|  | C# for Dev kit |
|  | Intellicode for C# dev kit |
| Add Extensions | C# for Visual Code, by Omnisharp |
|  | C# Extensions |
|  | Material Icon Theme |
| Add Nuget Gallery | From extensions |
| Add from Nuget Package Manager | Microsoft.entityframeworkcore 6.0.6 |
|  | Microsoft.Entityframeworkcore.Sqlite 6.0.6 |
| launchSettings.Json in Properties | launchBrowser = false |
|  | applicationUrl: “http://localhost:5000;https:localhost:5001” |
|  | Delete whole section of “https” and IIsSettings |
|  | Delete: launchUrl: Swagger |
| Dotnet HTTPS | In terminal, dotnet dev-certs https --trust |
| Set error lvel detail | In appSettings.Development.Json, in “Microsoft.Aspnet”: change ‘warning’ to ‘information’ |
| In Program.CS | Delete the section (If app.Environment==Development): app.UserSwagger, app.UserSwaggerUI.  Also delete: builder.Services.AddEndPointsApiExplorer and builder.Services.AddSwaggerGen |
|  |  |
| Install dotnet.ef tool | Dotnet tool install -g dotnet-ef –version(ef versin).  Confirm tools installation: dotnet tool list -g |
|  | Goto nuget.org/packages/dotnet-ef |
|  | Select relevant ef core version under the *version* tab, by clicking it. The chosen version number is copied to the command. Copy it |
|  | Paste it in dotnet CLI |
|  | dotnet tool install --global dotnet-ef --version 6.0.6 |
| In api.csproj, delete following | ItemGroup<  Microsoft.aspnetcore.openAPI,  Swashbuckler.aspnetcore> |
| **Migratioons** | Dotner ef migrations add InitialCreate -o Data/Migrations |
|  | Dotnet ef database update |
| Install Sqlite extension to view database | From Extension, install SQLite.  From ViewDatabase, select database name |
| Git | In solution folder: |
|  | Git init |
|  | dotnet new gitignore |
| If git branch name is *Master,* change it to main (to conform to final publication) | git branch –M main |
| Under *Or Create New Repository under command line,* choose the last but one command that starts with *git remode add* | And paste it into the terminal and press Enter |
| Editorconfig | Create new file in solution folder named .editorconfig, and past the editorconfig contents |
|  |  |
| Hide appsettings.json | Right-click appsettings.json, and choose : add to .gitignore |
| Use specific version of dotnet SDK | Create new json file global.json:  dotnet new globaljson |
| Add specific version of angular | npm install @angular/cli@14 |
|  | @14 is version 14. Use –g flat to make it global |
|  |  |
|  |  |
| Create projects | In solution folder: |
|  | **Ideal>**dotnet new classlib –o core |
|  | **Ideal>**dotnet new classlib –o infra |
| Add projects to the solution | **Ideal>**dotnet sln add core |
|  | **Ideal>**dotnet sln add infra |
|  |  |
| Define dependencies |  |
| Api depends on infra project | **ideal>**cd api  **Api>**dotnet add reference ../infra |
| Infra depends on core | **Api>**cd ..  **Ideal>**cd infra  **Infra**>dotnet add reference ../core |
| Restore references | **Infra>**cd ..  **Ideal>**dotnet restore |
|  | IN infra PROJECT  -set references to System.Text.Json  -set references to Microsoft.Entityframeworkcore.SqlServer |
| Git | Check git status: git status |
|  | If no git present, then: git init |
|  | Create gitignore file:  Dotnet new gitignore |
|  | Include in gitignore following files(right click and choose : add to .gitignore:  Appsettings.json |
|  | Stage changes – click the + button |
|  |  |