Setting up the VS code environment for development:

* Dotnet –info to check the details about installed dotnet version.
* Dotnet -h to get all the helpful command.
* A solution (sln) is a container for a project.
* Dotnet new -h to know about the new option.
* Dotner new sln to create a solution file.
* dotnet new webapi -n API (create a folder called API for storing webapi’s).
* dotnet sln add API/ (to add API project to sln).
* dotnet sln list (to check added or not).
* install c# extention for vs code.
* Clt + shift + p to go to command pallet, type reload window to resolve maximum of your problem.
* Configure C# extension: extension setting > Enable Async Completion (tick mark), Enable Editor Config Support (thick mark), Enable Import Completion (thick mark), organized input on format (thick mark)
* Install C# extension from market place.
* Install material icon theme
* **Running the dotnet API/Application:**
* Dotnet run
* Dotnet run -h
* Dotnet run -lp https
* Dotnet watch run

**Creating an entity**

* Create a folder named Entities inside API folder then under entities folder create a class named AppUser
* To create a property inside the class, write prop and hit tab button
* **To** exclude any file in VS code go to setting, search exclude, and the path that you wanted to exclude.

**Entity Framework:**

It is and object relational mapper (ORM). Translate our code into SQL commands that update our tables in the database.

Features of Entity framework: Querying, change tracking, saving, concurrency, Transactions, caching, Built-in-convention, migration.

To Add Entity framework to a project, go to extension > NuGet gallery, install it.

**Creating connection string:**

* Install Nuget dotnet-ef
* dotnet tool list -g : to list all the installed tools
* dotnet ef migrations add InitialCreate -o Data/Migrations // -o stands for output followed is the path
* dotnet ef // To know about different option of dotnet entity framework
* dotnet ef database -h

**Create database using entity framework:**

* dotnet ef database update
* install sqlite from VS code extension

API Controller:

* install postman
* to run API: dotnet watch run

Source control:

* Dotnet new gitignore to create a file to ignore unwanted file in source control
* Dotnet new globaljson to know the SDK version