



Web Application Programming Interface (API)

Tahaluf Training Center 2022





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Postman

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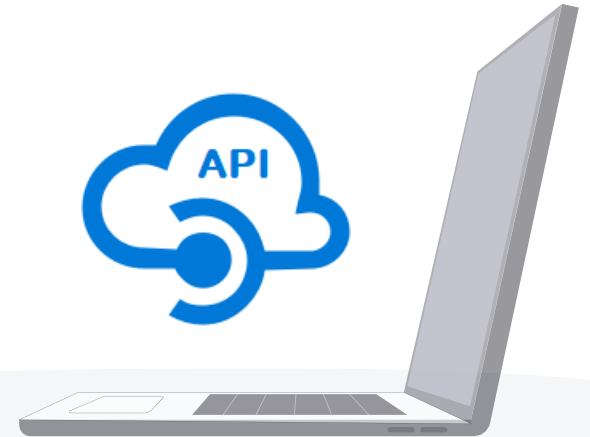
Create API Project

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Class Library



A stylized graphic of a green rectangular notepad with a red border and a red eraser at the top right. The word "Postman" is written in white on the notepad. There are also two small black circles at the bottom right of the notepad.

Postman



Postman is an Application Programming Interface (API) development tool used to build, test and modify APIs.

Postman has the ability to make different types of HTTP methods (GET, PUT, PATCH, POST), converting the API to code for various languages (like Python, JavaScript), saving environments for later use.



POSTMAN



Open the following link: <https://www.postman.com/downloads/>

The Postman app

The ever-improving Postman app (a new release every two weeks) gives you a full-featured Postman experience.

 **Download the App**

By downloading and using Postman, I agree to the [Privacy Policy](#) and [Terms](#).

Version 8.12.2 | [Release Notes](#) | [Product Roadmap](#)

Not your OS? Download for Mac ([macOS](#)) or Linux ([x64](#))

Postman on the web

You can now access Postman through your web browser. Simply create a free Postman account, and you're in.

Try the Web Version



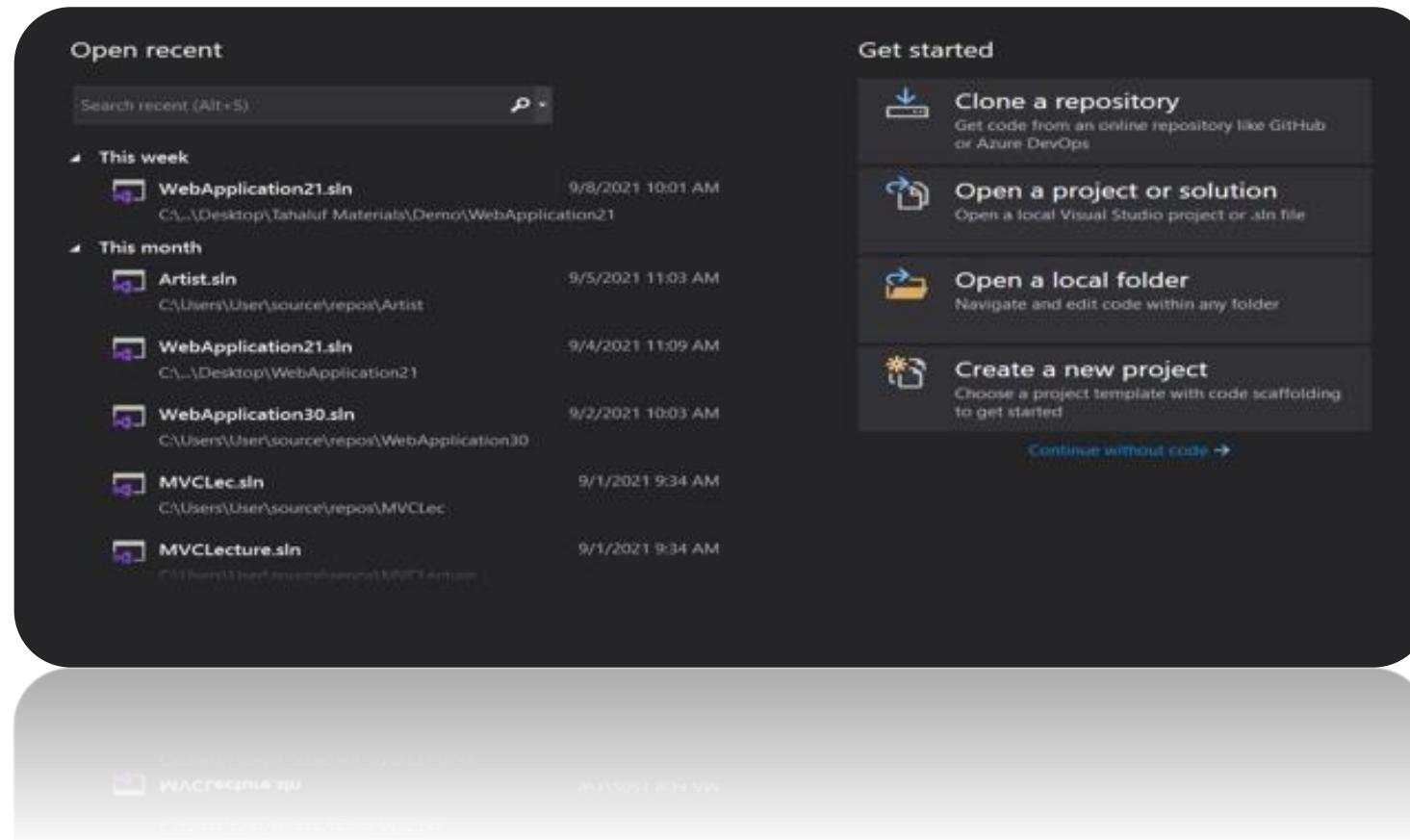
POSTMAN



Create API Project

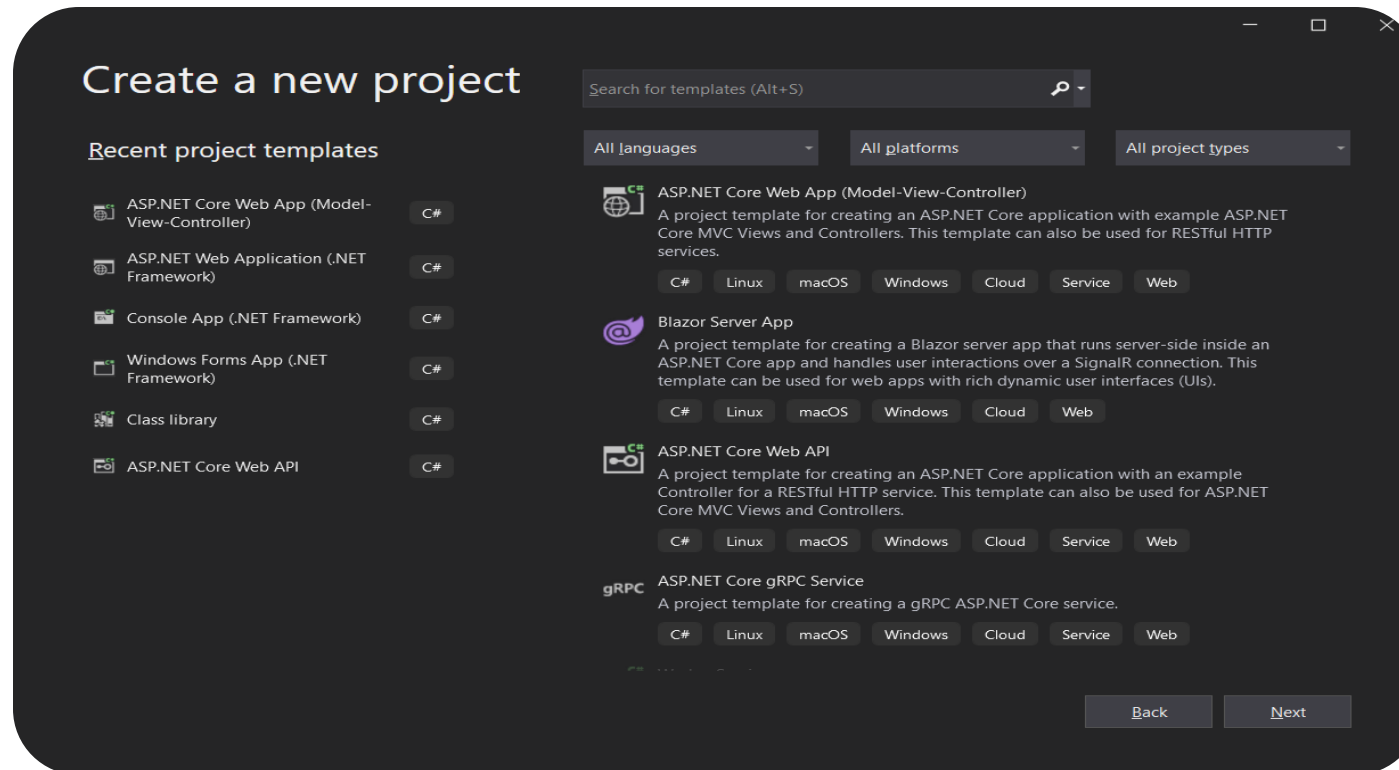


Open Visual Studio





Choose ASP.NET Core Web API.





Enter Project name and Solution name.

Configure your new project

ASP.NET Core Web API

C#

Linux

macOS

Windows

Cloud

Service

Web

Project name

TahalufLearn.API

Location

C:\Users\B.Alhassoun.ext\source\repos

Solution name ⓘ

TahalufLearn.API

☐

Place solution and project in the same directory



Choose Target Framework.

Additional information

ASP.NET Core Web API C# Linux macOS Windows Cloud Service Web

Target Framework ⓘ
.NET Core 3.1 (Long-term support)

Authentication Type ⓘ
None

☒ Configure for HTTPS ⓘ

☐ Enable Docker ⓘ

Docker OS ⓘ
Linux

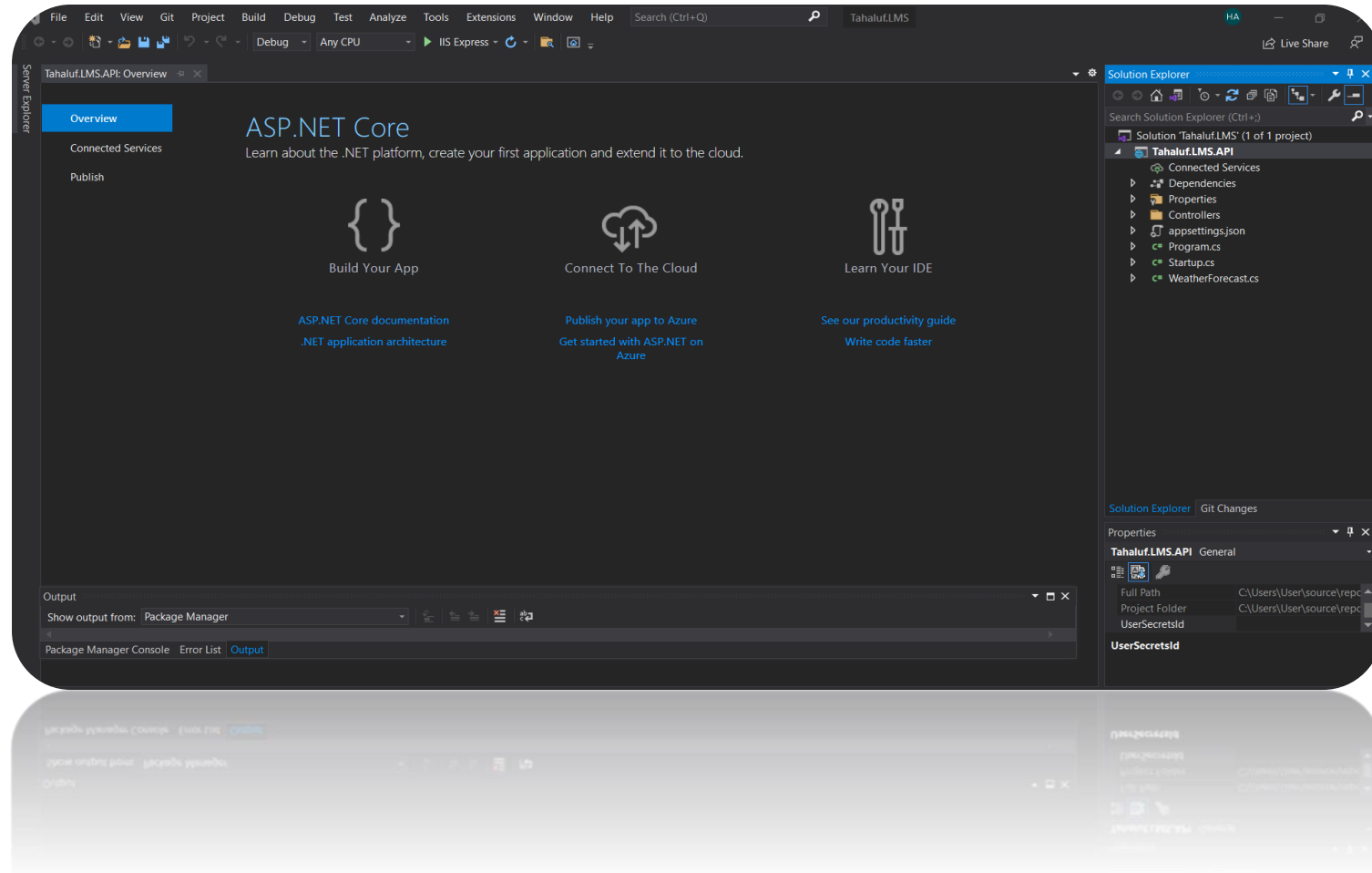
Back Create

Back

Create



The Project is created





Overview of Project Architecture



What is Program.cs?

Program.cs is a place where the application starts.

Program.cs file work like Program.cs file that used in traditional .NET Framework console application.

Program.cs fille represent the entry point of project and it is used to register IISIntegration, Startup.cs fill and Create a host in the Main method.



What is Startup.cs?

Startup class provides the entry point for an project, and is required for all applications.

The Startup class can accept dependencies in its constructor that are provided by dependency injection.



What is appsetting.json?

The appsettings.json file is a configuration file used to store configuration settings like any application scope global variables , database connections strings, etc.



What is Controller?

Web API Controller is similar to ASP.NET Core MVC controller. It handles incoming HTTP requests from the server and send response to the caller.



Class Library



Class libraries are the shared library concept for .NET.

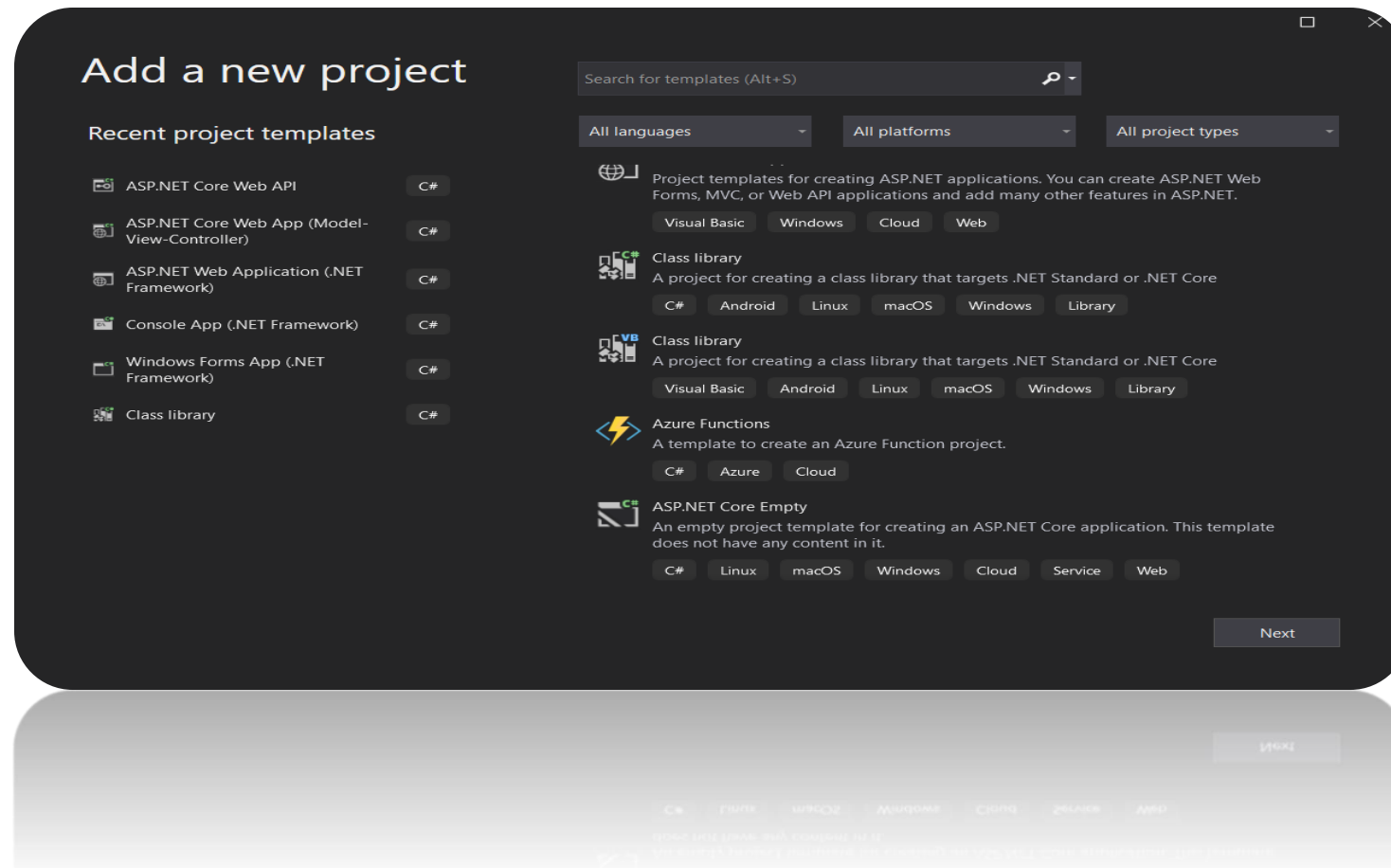
They enable to componentize useful functionality into modules that can be used by multiple applications.

They used as a means of loading functionality that is not known or not needed at application startup.

Class libraries are described by the .NET Assembly file format.



Right Click on Solution Name => Add => New Project => Choose Class Library.





Enter Project Name (TahalufLearn.Core)

Configure your new project

Class library

C#

Android

Linux

macOS

Windows

Library

Project name

TahalufLearn.core

Location

C:\Users\B.Alhassoun.ext\Desktop\API\Web Application Programming Interface (API) 2021112

...



Enter Project Name (TahalufLearn.Infra)

Configure your new project

Class library

C#

Android

Linux

macOS

Windows

Library

Project name

TahalufLearn.Infra

Location

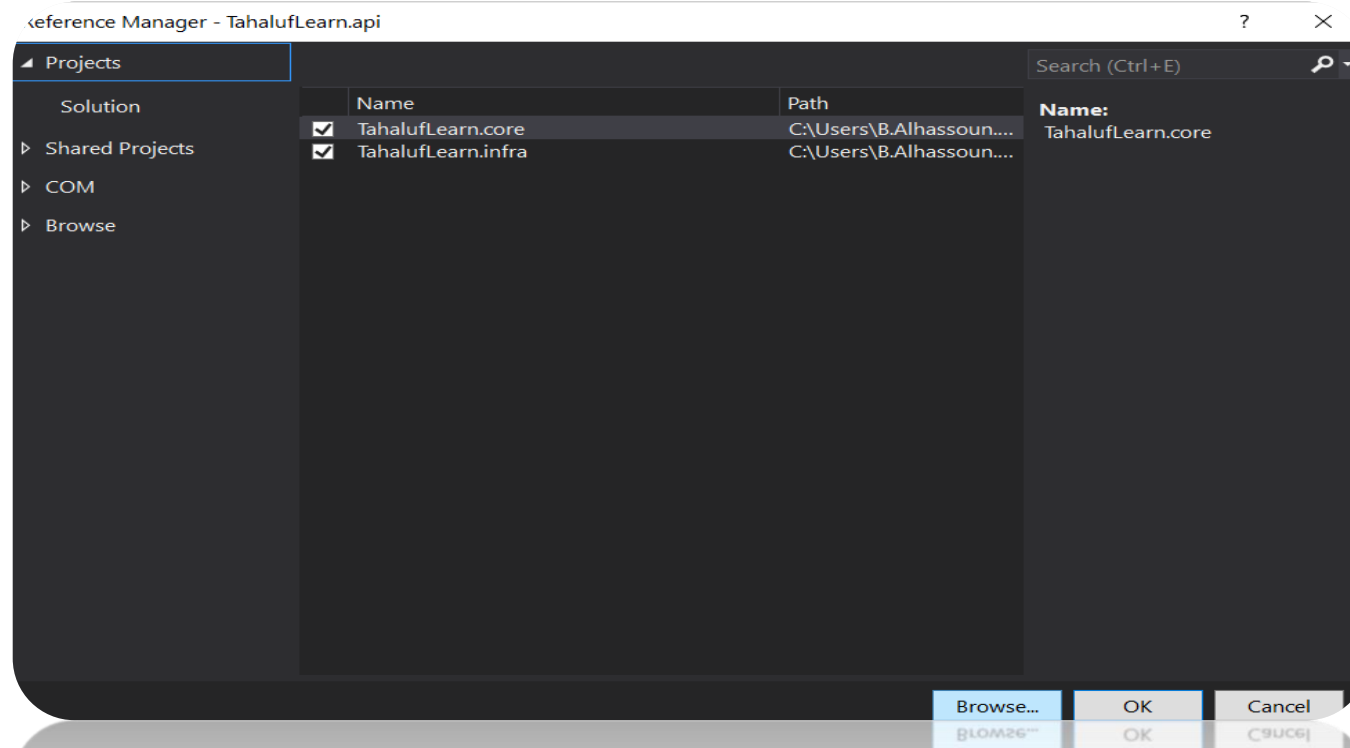
C:\Users\B.Alhassoun.ext\Desktop\API\Web Application Programming Interface (API) 2021112

...



Create dependencies

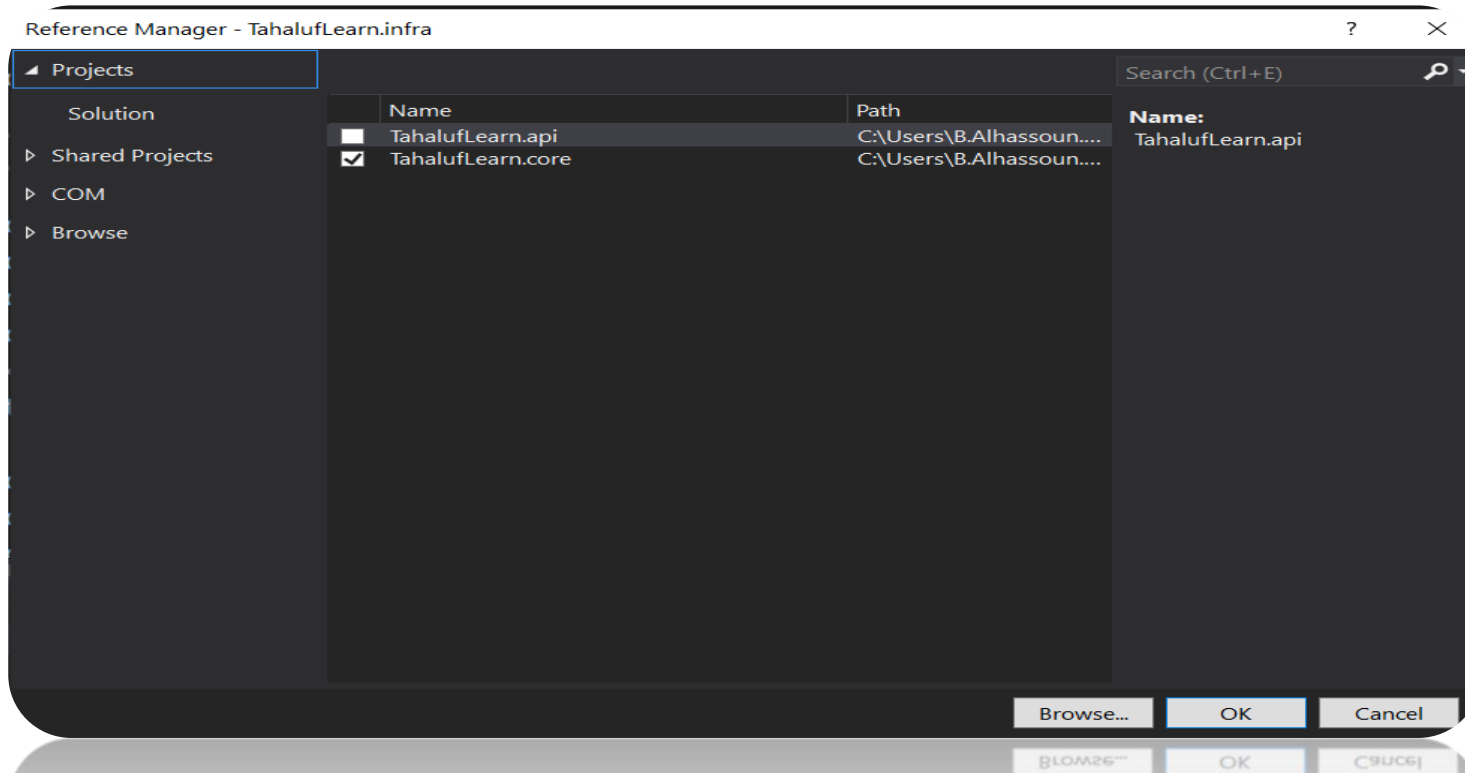
Right click on dependencies in TahalufLearn.API => Add project reference => Choose TahalufLearn.Core & TahalufLearn.Infra => Ok





Create dependencies

Right click on dependencies in TahalufLearn.Infra => Add project reference => Choose TahalufLearn.Core => Ok





- [1]. <https://www.geeksforgeeks.org/introduction-postman-api-development/>
- [2]. <https://jakeydocs.readthedocs.io/en/latest/fundamentals/startup.html>
- [3]. <https://dotnettutorials.net/lesson/asp-net-core-appsettings-json-file/>