Harmony IT Solution

learning Hub

Web Application Programming Interface (API)

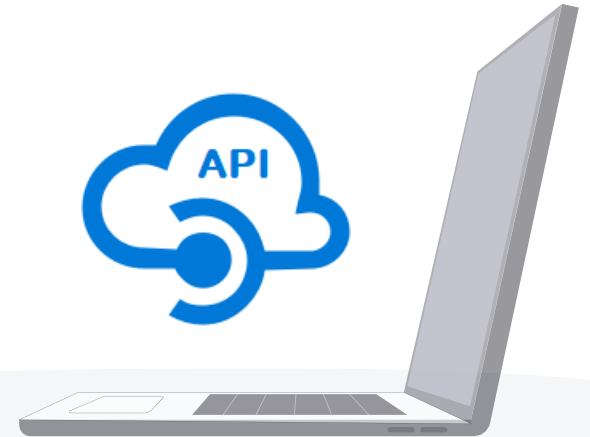## Tahaluf Training Center 2022

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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

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

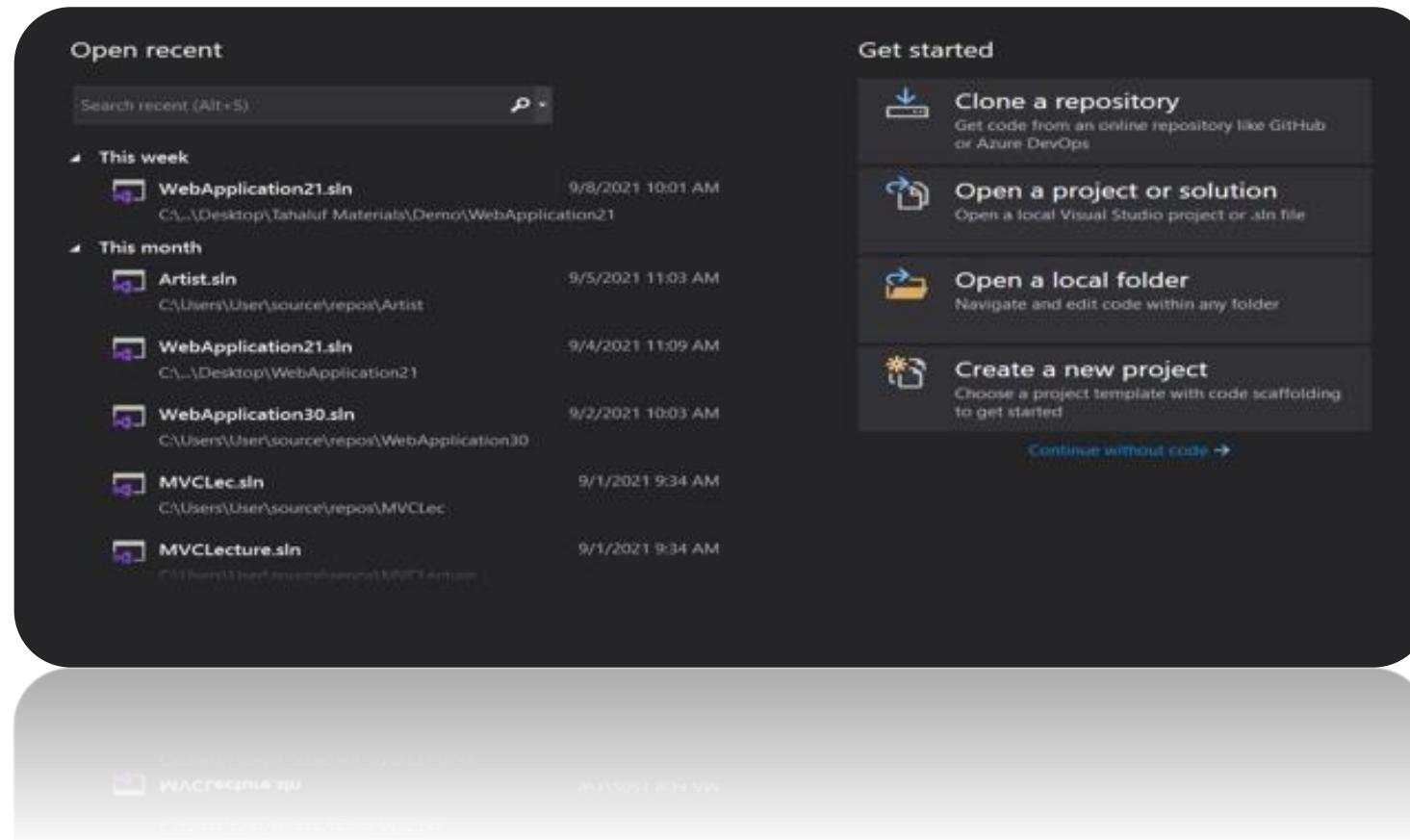Harmony IT Solution

Create API Project

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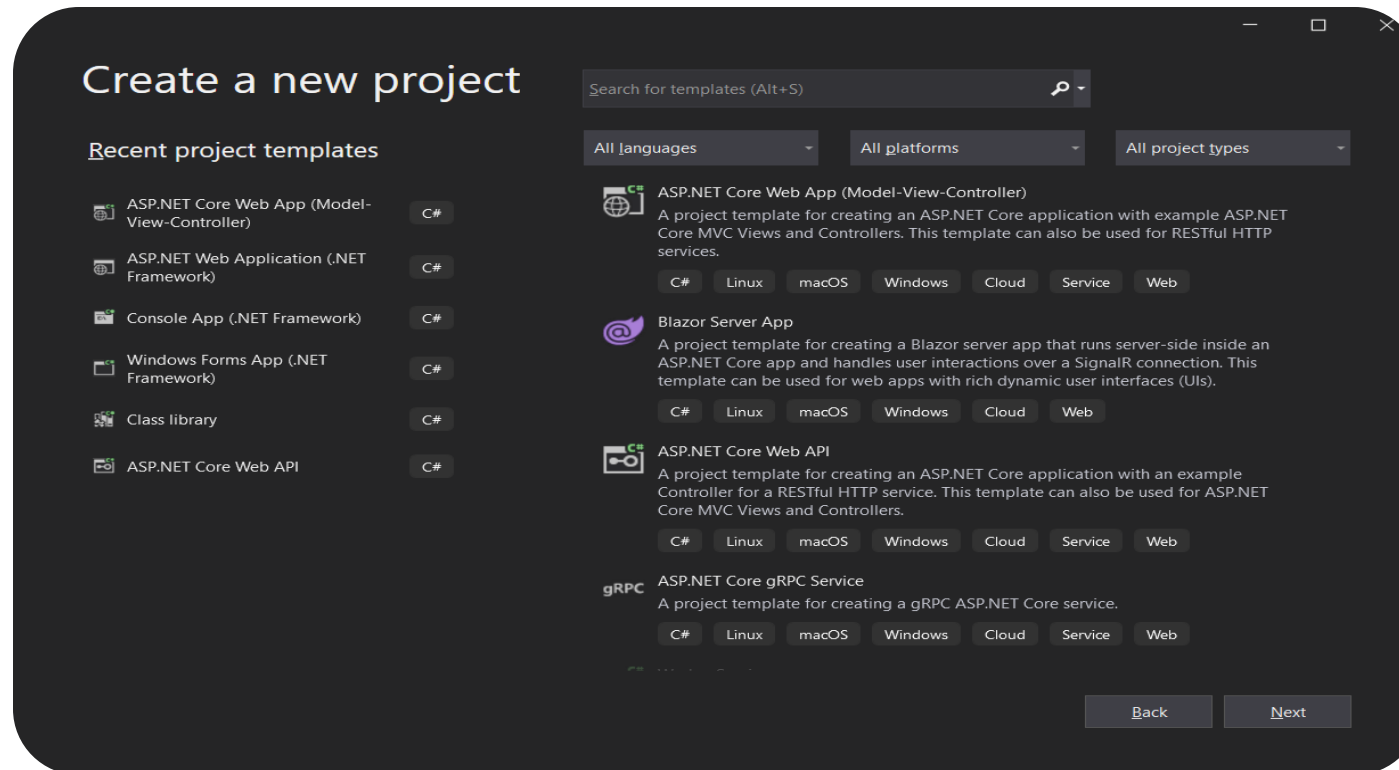
Open Visual Studio

Choose ASP.NET Core Web API.

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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

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Choose Target Framework.

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The Project is created

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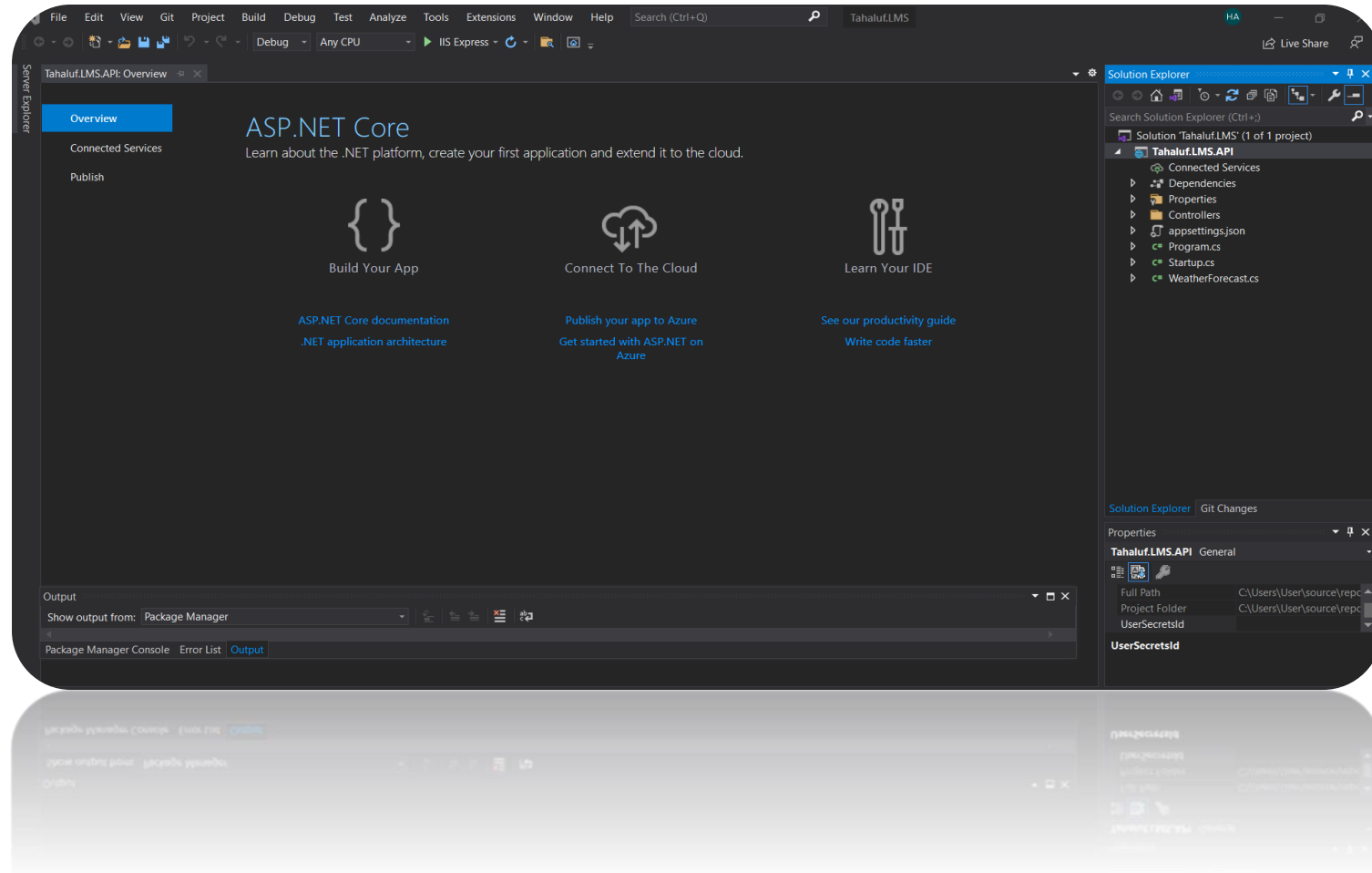
Overview of Project Architecture

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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.

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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.

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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.

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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.

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Class Library

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**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.

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

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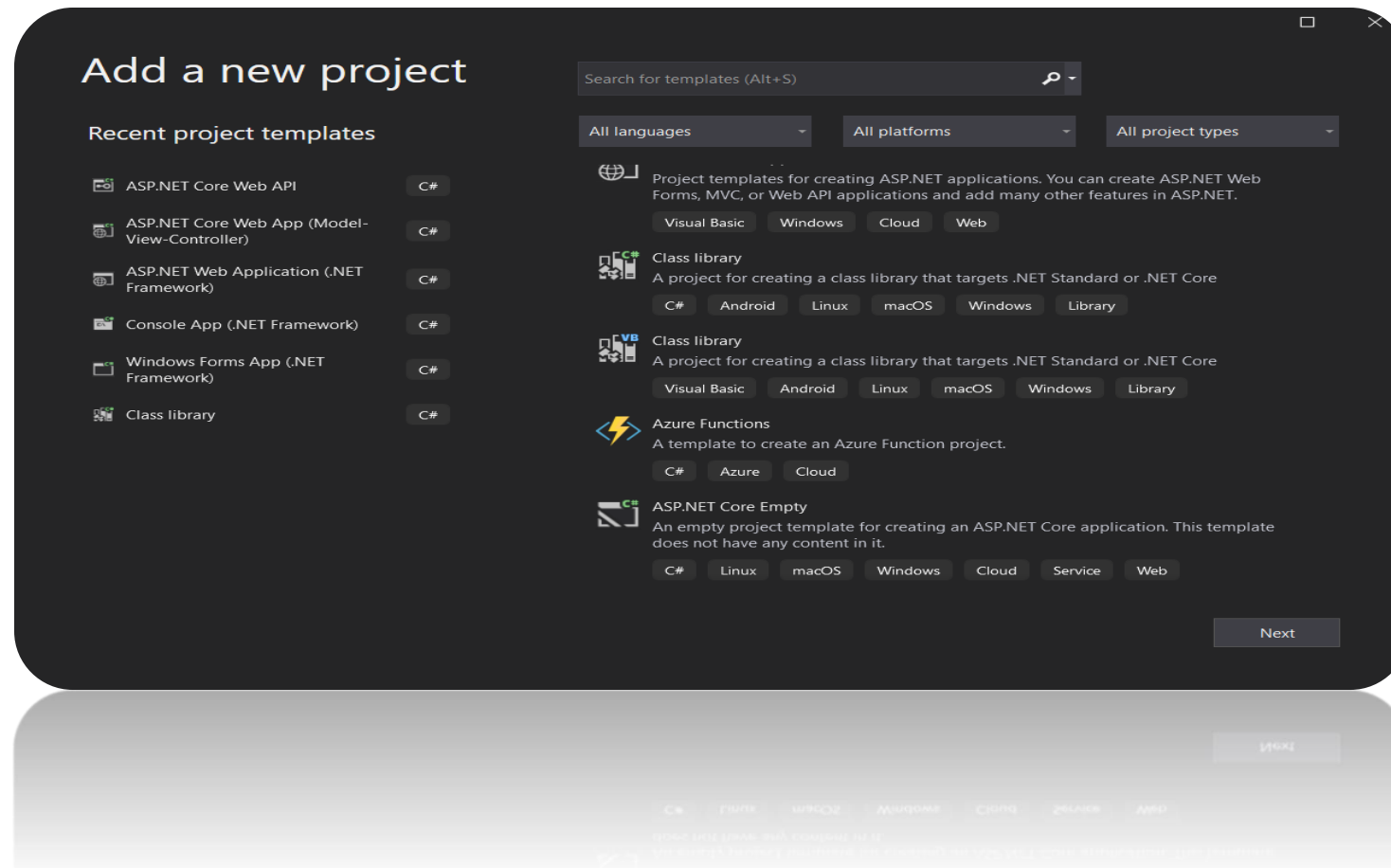
Enter Project Name (TahalufLearn.Core)

Configure your new project

Class library | C# | Android | Linux | macOS | Windows | Library
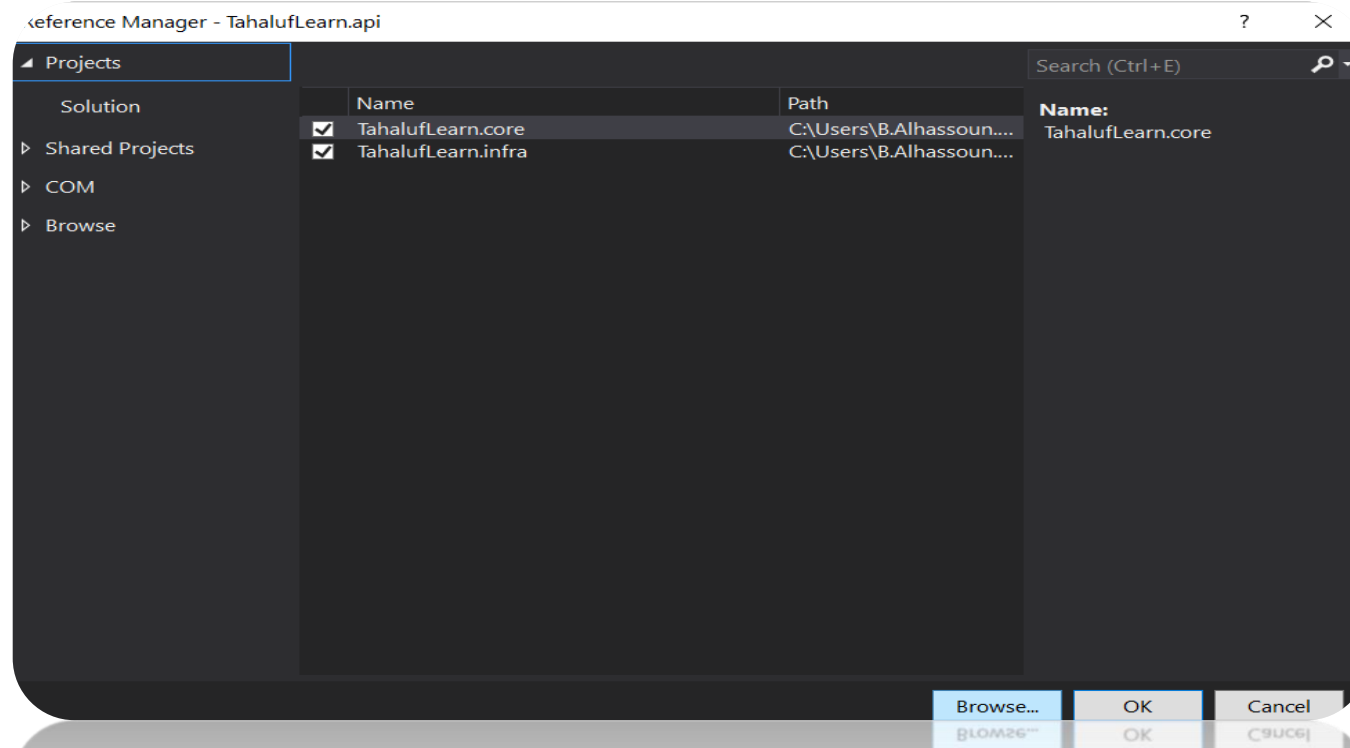
Project name

TahalufLearn.core

Location

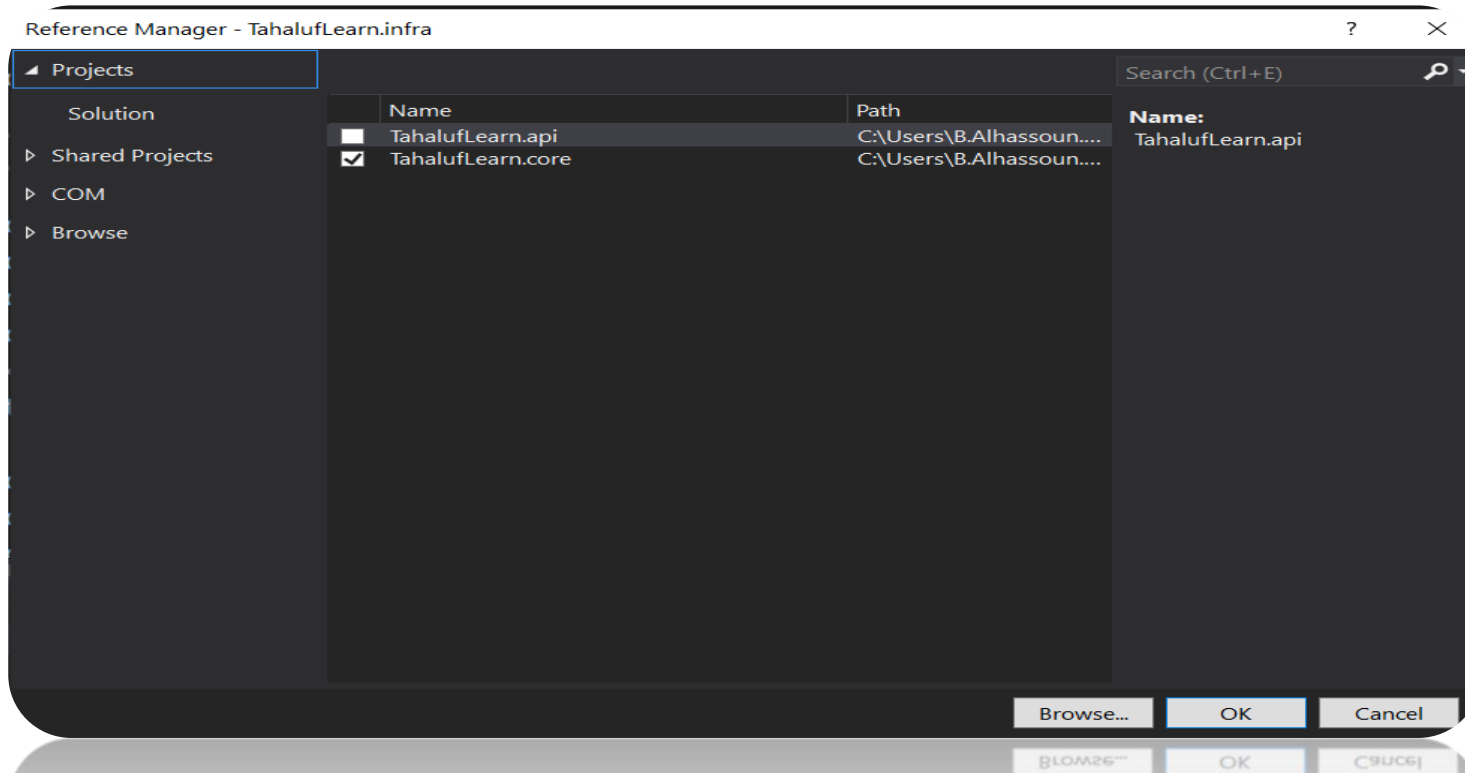C:\Users\B.Alhassoun.ext\Desktop\API\Web Application Programming Interface (API) 2021112 ▾   ...

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Enter Project Name (TahalufLearn.Infra)

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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

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[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/