How to integrate Vue and Asp.Net Core 3.1 app using VS Code

JANUARY 30, 2020 BY MEBAKAR1005 — LEAVE A COMMENT

Build an app with ASPNET Core and Angular from scratch

In this tutorial, we are going to cover how to integrate ***Vue.js*** and ***Asp.Net Core 3.1*** application using ***Entity Framework Core*** in Visual Studio Code. We will use ***PostgreSql*** database in this tutorial. So, we are going to build a SPA (Single Page Application).

First-of-all, we will install all the dependencies and tools that we need in this project. And then we will see how to setup a new project using Vue and Asp.Net Core 3.1 in visual studio code. So, we will learn the following list in this tutorial:

1. Install all the dependencies and tools
2. How to install PostgreSql Database?

3. How to create a new project using dotnet CLI (Command Line Interface) in VS Code?
4. How to setup a database in Vue and Asp.Net C

And then finally, we will test our application and the

Setup a new project using Core 3.1 in visual studio code?

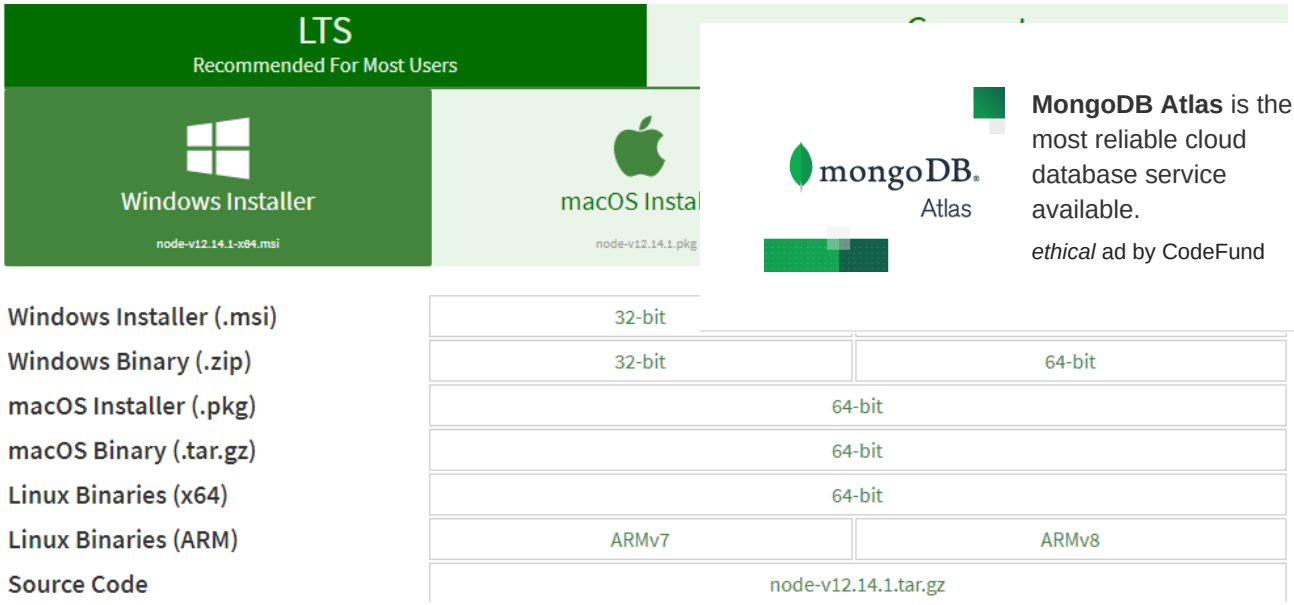
Let's start how to setup a new project in Vue.js and Asp.Net Core 3.1 application with Entity Framework Core using Visual Studio Code in step by step.

1- Install all the dependencies and tools

So, in this step, we will install all the dependencies and tools.

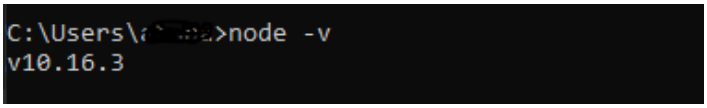
Install Node.js

To install the Node.js, just click here (https://nodejs.org/en/download/) to go to the download page and then download the required version according to your machine and then install it on your machine.



To test that node has been installed properly or not, go to command prompt and then run the below command and then you will see the output as you do see below in the screenshot.

=> node -v



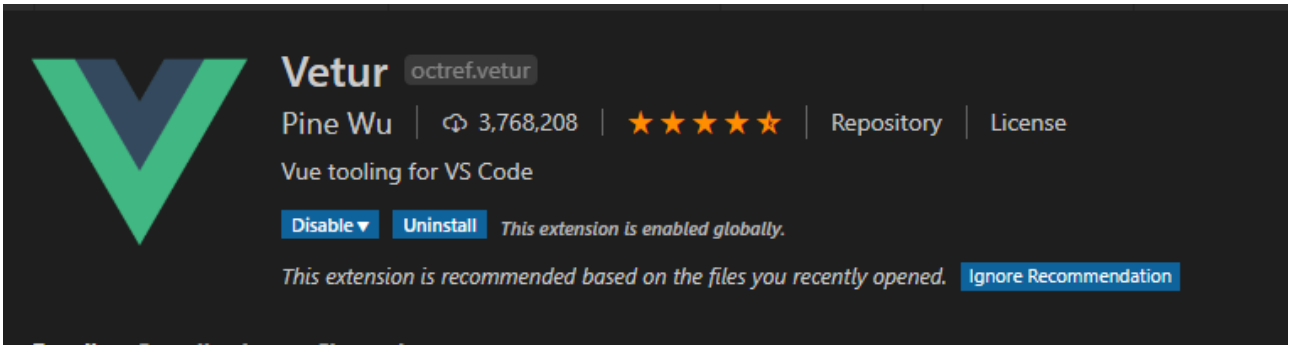
Install .Net Core 3.1

Now, we are going to install .Net Core 3.1 in our system. So, click here (https://dotnet.microsoft.com/download/dotnet-core/3.1) go to the download page and then download the required version according to your machine and then install it.

Note: – If you have already installed it, then you can skip this step.

Install Vetur

Vetur is a visual studio code extension. It will help us to build a Vue application like syntax highlighting, code snippets, intellisense and etc. To install it, just go to visual studio code and then go to extension menu from left sidebar and then search for Vetur and then install it.



2: How to Install PostgreSQL Database?

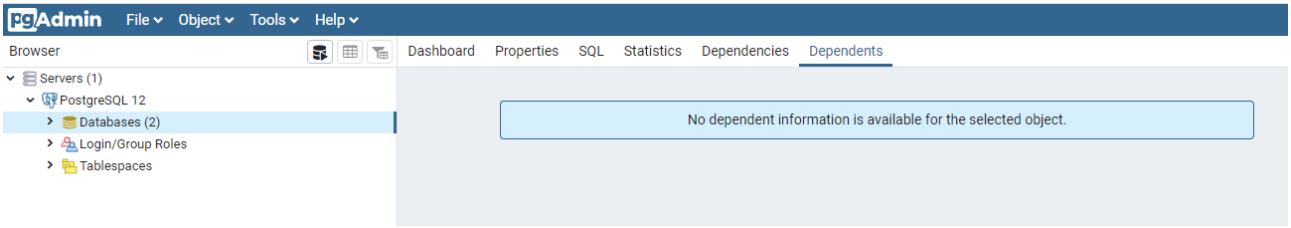
Now, in step, we will see how to install PostgreSQL. So click here (https://www.enterprisedb.com/downloads/postgr download page and then install it on your machine the default options checked during the installation

READ **ASP.NET Core Interview Questions**

Note: – Remember the port number and password that you have entered during the installation process and we will use it later.

After installation, we will see pgAdmin 4 App in our system as you do see below in the screenshot.

Note: – When we will run this app, it will ask the password.



3: How to create a new project using dotnet CLI (Command Line Interface) in VS Code?

In this step, we will see how to create a new project in Vue and Asp.Net Core 3.1 using dotnet CLI (Command Line Interface) in Visual Studio Code. So, go to visual studio and create a new folder using this below command.

=> mkdir BookStore

And then go to inside this **BookStore** folder using the below command as you do see in the below screenshot.

=> cd BookStore

```
PS C:\Users\[redacted]> cd BookStore
PS C:\Users\[redacted]\BookStore>
```


Now, run the below command to download an Application templates.

=> dotnet new –install Microsoft.AspNetCore.SpaTer...

After running the above command, then you will see all the templates as you do see below in the screenshot.

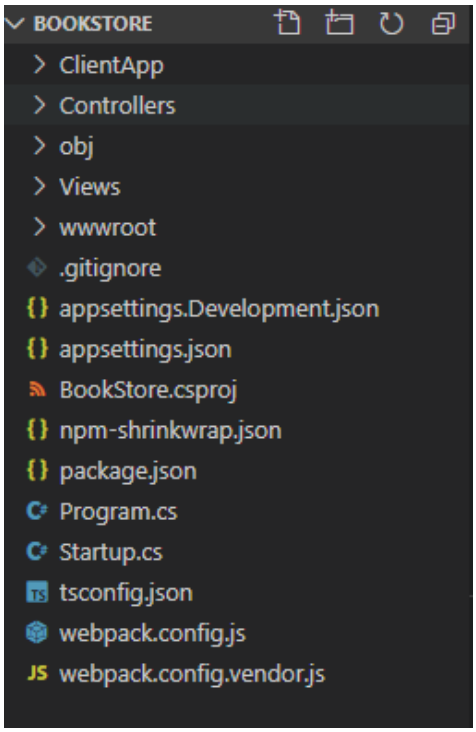
Templates	Short Name	Language	Tags
Console Application	console	[C#], F#, VB	Common/Console
Class library	classlib	[C#], F#, VB	Common/Library
WPF Application	wpf	[C#]	Common/WPF
WPF Class library	wpflib	[C#]	Common/WPF
WPF Custom Control Library	wpfcustomcontrollib	[C#]	Common/WPF
WPF User Control Library	wpfusercontrollib	[C#]	Common/WPF
Windows Forms (WinForms) Application	winforms	[C#]	Common/WinForms
Windows Forms (WinForms) Class library	winformslib	[C#]	Common/WinForms
Worker Service	worker	[C#]	Common/Worker/Web
Unit Test Project	mstest	[C#], F#, VB	Test/MSTest
NUnit 3 Test Project	nunit	[C#], F#, VB	Test/NUnit
NUnit 3 Test Item	nunit-test	[C#], F#, VB	Test/NUnit
xUnit Test Project	xunit	[C#], F#, VB	Test/xUnit
Razor Component	razorcomponent	[C#]	Web/ASP.NET
Razor Page	page	[C#]	Web/ASP.NET
MVC ViewImports	viewimports	[C#]	Web/ASP.NET
MVC ViewStart	viewstart	[C#]	Web/ASP.NET
Blazor Server App	blazorserver	[C#]	Web/Blazor
ASP.NET Core Empty	web	[C#], F#	Web/Empty
ASP.NET Core Web App (Model-View-Controller)	mvc	[C#], F#	Web/MVC
ASP.NET Core Web App	webapp	[C#]	Web/MVC/Razor Pages
ASP.NET Core with Aurelia	aurelia	[C#]	Web/MVC/SPA
ASP.NET Core with Knockout.js	knockout	[C#]	Web/MVC/SPA
ASP.NET Core with Vue.js	vue	[C#]	Web/MVC/SPA
ASP.NET Core with Angular	angular	[C#]	Web/MVC/SPA
ASP.NET Core with React.js	react	[C#]	Web/MVC/SPA
ASP.NET Core with React.js and Redux	reactredux	[C#]	Web/MVC/SPA
Razor Class Library	razorclasslib	[C#]	Web/Razor/Library/Razor Class Library
ASP.NET Core Web API	webapi	[C#], F#	Web/WebAPI
ASP.NET Core gRPC Service	grpc	[C#]	Web/gRPC
dotnet gitignore file	gitignore		Config
global.json file	globaljson		Config
NuGet Config	nugetconfig		Config
Dotnet local tool manifest file	tool-manifest		Config
Web Config	webconfig		Config

Now, run the below command to create a new project within your specific directory. It will name the application based on the folder that you are inside as you do see below in the screenshot.

=> dotnet new vue

```
PS C:\Users\[redacted]\BookStore> dotnet new vue
The template "ASP.NET Core with Vue.js" was created su

Processing post-creation actions...
Running 'dotnet restore' on C:\Users\[redacted]\BookStore\B
  Restore completed in 216.95 ms for C:\Users\[redacted]\Bo
  Restore completed in 3.2 sec for C:\Users\[redacted]\Book

Restore succeeded.

Description:

---------------------------------------------------------------------
IMPORTANT: Before running this project on the command line,
           you must restore NPM packages by running "npm install"
---------------------------------------------------------------------

Manual instructions: Run "npm install"
```

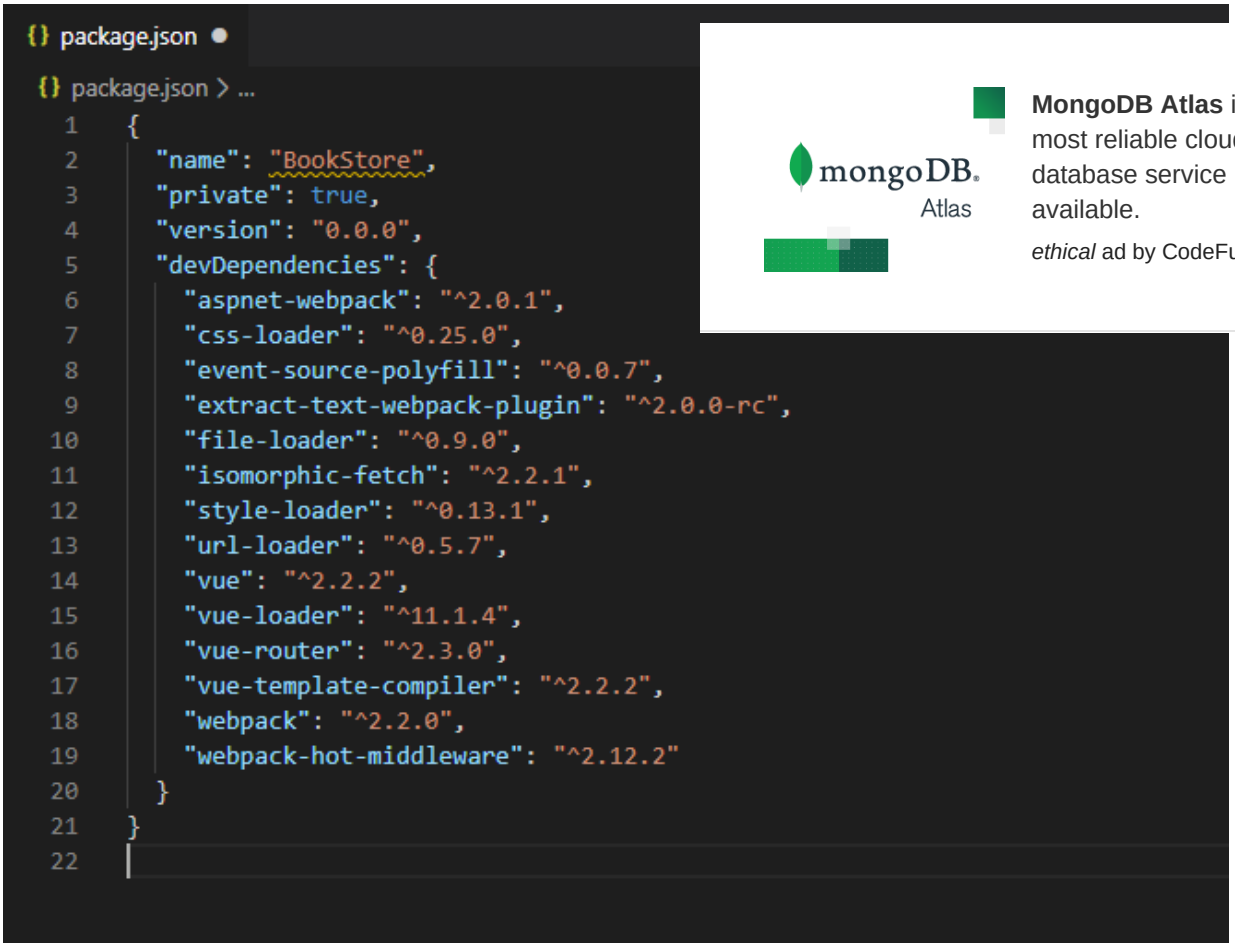

Now, open the project directory within the VS Code and then you will see the project folder structure as you do see below in the screenshot.



Now, in this project we will not use typescript. So, we will remove all the dependencies of typescript from this project. To do this, go to **package.json** file and then remove these below packages. And then you will see the file as you do see below in the screenshot.

```
1  "@types/webpack-env": "^1.13.0",
2  "awesome-typescript-loader": "^3.0.0",
3  "bootstrap": "^3.3.6",
4  "jquery": "^3.1.1",
5  "typescript": "^2.2.1",
6  "vue-property-decorator": "^5.0.1"
```

removed packages - vue and asp.net core 3.1 integration hosted with ♥ by **GitHub** view raw



Now, go to **tsconfig.json** file and then delete it. Then go to **webpack.config.js** file as you do see below file.

```
const path = require('path');
const webpack = require('webpack');
const ExtractTextPlugin = require('extract-text-webpack-plugin');
const CheckerPlugin = require('awesome-typescript-loader').CheckerPlugin;
const bundleOutputDir = './wwwroot/dist';

module.exports = (env) => {
    const isDevBuild = !(env && env.prod);

    return [{
        stats: { modules: false },
        context: __dirname,
        resolve: { extensions: [ '.js', '.ts' ] },
        entry: { 'main': './ClientApp/boot.ts' },
        module: {
            rules: [
                { test: /\.vue\.html$/, include: /ClientApp/, loader: 'vue-loader', options
                { test: /\.ts$/, include: /ClientApp/, use: 'awesome-typescript-loader?sil
                { test: /\.css$/, use: isDevBuild ? [ 'style-loader', 'css-loader' ] : Ext
                { test: /\.(png|jpg|jpeg|gif|svg)$/, use: 'url-loader?limit=25000' }
            ]
        },
```

```
23          output: {
24              path: path.join(__dirname, bundleO
25              filename: '[name].js',
26              publicPath: 'dist/'
27          },
28          plugins: [
29              new CheckerPlugin(),
30              new webpack.DefinePlugin({
31                  'process.env': {
32                      NODE_ENV: JSON.stringify(isDevBuild ? 'development' : 'production')
33                  }
34              }),
35              new webpack.DllReferencePlugin({
36                  context: __dirname,
37                  manifest: require('./wwwroot/dist/vendor-manifest.json')
38              })
39          ].concat(isDevBuild ? [
40              // Plugins that apply in development builds only
41              new webpack.SourceMapDevToolPlugin({
42                  filename: '[file].map', // Remove this line if you prefer inline source ma
43                  moduleFilenameTemplate: path.relative(bundleOutputDir, '[resourcePath]') /
44              })
45          ] : [
46              // Plugins that apply in production builds only
47              new webpack.optimize.UglifyJsPlugin(),
48              new ExtractTextPlugin('site.css')
49          ])
50      }];
51  };
```

webpack.config.js before update hosted with ❤ by **GitHub** **view raw**

Now, make some changes to remove typescript. First-of-all, remove this below line of code from line # 4

=> `const CheckerPlugin = require('awesome-typescript-loader').CheckerPlugin;`

Now, update line # 13 and 14 as you do see below

=> `resolve: { extensions: [ '.js' ] },`

=> `entry: { 'main': './ClientApp/boot.js' },`

Now, update the code of lines from 17 to 20 as you do see below

```
1   { test: /\.vue$/, include: /ClientApp/, loader: 'vue-loader' },
```

```
{ test: /\.css$/, use: isDevBuild ? [ 'style-loader', 'css-loader' ] : ExtractTextPlugin.ex
{ test: /\.(png|jpg|jpeg|gif|svg)$/, use: 'url-
```

webpack.config.js updated - vue and asp.net core integration hos

Now, go to line # 29 and remove it. Then you will s
the file code.

```
const path = require('path');
const webpack = require('webpack');
const ExtractTextPlugin = require('extract-text-webpack-plugin');
const bundleOutputDir = './wwwroot/dist';

module.exports = (env) => {
    const isDevBuild = !(env && env.prod);

    return [{
        stats: { modules: false },
        context: __dirname,
        resolve: { extensions: [ '.js' ] },
        entry: { 'main': './ClientApp/boot.js' },
        module: {
            rules: [
                { test: /\.vue$/, include: /ClientApp/, loader: 'vue-loader' },
                { test: /\.css$/, use: isDevBuild ? [ 'style-loader', 'css-loader' ] : Ext
                { test: /\.(png|jpg|jpeg|gif|svg)$/, use: 'url-loader?limit=25000' }
            ]
        },
        output: {
            path: path.join(__dirname, bundleOutputDir),
            filename: '[name].js',
            publicPath: 'dist/'
        },
        plugins: [
            new webpack.DefinePlugin({
                'process.env': {
                    NODE_ENV: JSON.stringify(isDevBuild ? 'development' : 'production')
                }
            }),
            new webpack.DllReferencePlugin({
                context: __dirname,
                manifest: require('./wwwroot/dist/vendor-manifest.json')
            })
        ].concat(isDevBuild ? [
            // Plugins that apply in development builds only
            new webpack.SourceMapDevToolPlugin({
                filename: '[file].map', // Remove this line if you prefer inline source ma
                moduleFilenameTemplate: path.relative(bundleOutputDir, '[resourcePath]') /
            })
```

```
        ] : [
            // Plugins that apply in productio
            new webpack.optimize.UglifyJsPlugi
            new ExtractTextPlugin('site.css')
        ])
    }];
};
```


webpack.config.js updated - vue and asp.net core integration hosted with ❤ by **GitHub** **view raw**

Now, go to components folder inside ClientApp. And then delete all the components and then delete the **css** folder. Now, add a new component with the name of **App.vue.** Now, add write some code as you do see below in the code file.

```
<template>
    <div>
        <h1> {{  message }} </h1>
    </div>
</template>

<script>
export default {
    name: 'app',
    data() {
        return {
            message: "Vue.js and asp.net core 3.1 integration setup"
        }
    }
}
</script>
```

App.vue - Vue and Asp.Net Core 3.1 integration hosted with ❤ by **GitHub** **view raw**

Now, change the **boot.ts** file name to **boot.js** and then change the file content as you do see below in the code file.

```
import Vue from 'vue';
import VueRouter from 'vue-router';
Vue.use(VueRouter);

const routes = [
];

new Vue({
    el: '#app-root',
    router: new VueRouter({ mode: 'history', routes: routes }),
    render: h => h(require('./components/App.vue'))
});
```

boot.js - vue and asp.net core 3.1 integration hosted with ❤ by **GitHub**

Now, go to **_Layout.cshtml** file inside **Views/Share** references.

READ **Define one to many relationship in Entity**

Now, go to **csproj** file and then modify it from **line # 10** to **22** as you do see below in the file.

Note: – You will see Entity Framework Packages in this file. We will use them later in this tutorial.

```
<Project Sdk="Microsoft.NET.Sdk.Web">

  <PropertyGroup>
    <TargetFramework>netcoreapp3.1</TargetFramework>
    <TypeScriptCompileBlocked>true</TypeScriptCompileBlocked>
    <TypeScriptToolsVersion>Latest</TypeScriptToolsVersion>
    <IsPackable>false</IsPackable>
  </PropertyGroup>

  <ItemGroup>
    <PackageReference Include="Microsoft.AspNetCore.App" Version="2.2.8" />
    <PackageReference Include="Microsoft.AspNetCore.SpaServices" Version="3.1.1" />
    <PackageReference Include="Microsoft.EntityFrameworkCore.Design" Version="3.1.1">
      <IncludeAssets>runtime; build; native; contentfiles; analyzers; buildtransitive</Inc
      <PrivateAssets>all</PrivateAssets>
    </PackageReference>
    <PackageReference Include="Microsoft.EntityFrameworkCore.Tools.DotNet" Version="2.0.3"
  </ItemGroup>

  <ItemGroup>
    <DotNetCliToolReference Include="Microsoft.VisualStudio.Web.CodeGeneration.Tools" Vers
  </ItemGroup>

  <Target Name="DebugRunWebpack" BeforeTargets="Build" Condition=" '$(Configuration)' == '
    <!-- Ensure Node.js is installed -->
    <Exec Command="node --version" ContinueOnError="true">
      <Output TaskParameter="ExitCode" PropertyName="ErrorCode" />
    </Exec>
    <Error Condition="'$(ErrorCode)' != '0'" Text="Node.js is required to build and run th

    <!-- In development, the dist files won't exist on the first run or when cloning to
         a different machine, so rebuild them if not already present. -->
    <Message Importance="high" Text="Performing first-run Webpack build..." />
    <Exec Command="node node_modules/webpack/bin/webpack.js --config webpack.config.vendor
    <Exec Command="node node_modules/webpack/bin/webpack.js" />
```

```
36    </Target>
37
38    <Target Name="PublishRunWebpack" AfterTarget
39      <!-- As part of publishing, ensure the JS
40      <Exec Command="npm install" />
41      <Exec Command="node node_modules/webpack/b
42      <Exec Command="node node_modules/webpack/b
43
44      <!-- Include the newly-built files in the publish output -->
45      <ItemGroup>
46        <DistFiles Include="wwwroot\dist\**" />
47        <ResolvedFileToPublish Include="@(DistFiles->'%(FullPath)')" Exclude="@(ResolvedFile
48          <RelativePath>%(DistFiles.Identity)</RelativePath>
49          <CopyToPublishDirectory>PreserveNewest</CopyToPublishDirectory>
50        </ResolvedFileToPublish>
51      </ItemGroup>
52    </Target>
53
54  </Project>
```

BookStore.csproj - Vue and Asp.Net Core 3.1 Integration hosted with ♥ by **GitHub** **view raw**

Now, go to the terminal and then run the below command to restore all the packages.

```
=> dotnet restore
```

Now, run the below command to install npm packages.

```
=> npm install
```

Now, run the below command to run the server side project.

```
=> dotnet run
```

Then open a second terminal of client app and then run the below command and then navigate to this url (http://localhost:8080/) and then you will see the output as you do see below in the screenshot.

```
=> vue serve
```

Vue.js and asp.net core 3.1 integration setup

4- How to setup a database in Vu application?

Now, in this step, we will see how to setup a databa We will use Entity Framework Core Identity to creat

Before going to the next, we need to add these b then run the below commands one by one to install the packages related to PostgreSQL and Entity Framework Core.

```
=> dotnet add package Microsoft.AspNetCore.Identity.EntityFrameworkCore --version 3.1.1

=> dotnet add package Npgsql.EntityFrameworkCore.PostgreSQL --version 3.1.0

=> dotnet add package Npgsql.EntityFrameworkCore.PostgreSQL.Design --version 2.0.0-preview1
```

So, go to project folder structure and then create a new folder with the name of "**Data**". We will add all the database related files within the "**Data**" folder. Now, right click on the **Data** folder and then add a new folder with the name of "**Entities**". Now, we will add all the classes inside the Entities folder. So, right click on the **Entities** folder and then add a new class with the name of **AppUser.cs** as you do see below in the code file.

```
1  using System.ComponentModel.DataAnnotations.Schema;
2  using Microsoft.AspNetCore.Identity;
3
4  namespace BookStore.Data.Entities
5  {
6      public class AppUser : IdentityUser<int>
7      {
8          public string FirstName { get; set; }
9          public string LastName { get; set; }
10
11         [NotMapped]
12         public string FullName
13         {
14             get {return $"{FirstName} {LastName}";}
15         }
16     }
17 }
```

AppUser.cs - Vue and Asp.Net Core 3.1 integration hosted with ♥ by **GitHub** **view raw**

Now, add a new class with the name of "**AppRole.cs**" as you do see below in the code file

```
using System.ComponentModel.DataAnnotations.Schema;
using Microsoft.AspNetCore.Identity;

namespace BookStore.Data.Entities
{
    public class AppRole : IdentityRole<int>
    {
        public AppRole() {}
        public AppRole(string name)
        {
            Name = name;
        }
    }
}
```

AppRole.cs - Vue and Asp.Net Core 3.1 Integration hosted with ♥ by **GitHub** **view raw**

Now, right on the **Data** folder and then add a context file with the name of "**BookStoreContext.cs**" and then write the code as you do see below in the file.

```
using BookStore.Data.Entities;
using Microsoft.AspNetCore.Identity.EntityFrameworkCore;
using Microsoft.EntityFrameworkCore;

namespace BookStore.Data
{
    public class BookStoreContext : IdentityDbContext<AppUser, AppRole, int>
    {
        public BookStoreContext(DbContextOptions<BookStoreContext> options) : base(options
        {}
    }
}
```

BookStoreContext - Vue and Asp.Net Core 3.1 Integration hosted with ♥ by **GitHub** **view raw**

Now, we will add dependency injection for database context. So, go to project folder structure and then open the **startup.cs** file and then go to **ConfigureServices** method and then write the code as you do see below in the code file.

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;
using BookStore.Data;
using BookStore.Data.Entities;
using Microsoft.AspNetCore.Builder;
using Microsoft.AspNetCore.Hosting;
using Microsoft.AspNetCore.Identity;
using Microsoft.AspNetCore.SpaServices.Webpack;
```

```
using Microsoft.EntityFrameworkCore;
using Microsoft.Extensions.Configuration;
using Microsoft.Extensions.DependencyInjection

namespace BookStore
{
    public class Startup
    {
        public Startup(IConfiguration configuration)
        {
            Configuration = configuration;
        }

        readonly string MyAllowSpecificOrigins = "_myAllowSpecificOrigins";
        public IConfiguration Configuration { get; }

        // This method gets called by the runtime. Use this method to add services to the c
        public void ConfigureServices(IServiceCollection services)
        {
            services.AddCors(options =>
            {
                options.AddPolicy(MyAllowSpecificOrigins,
                builder =>
                {
                    builder.WithOrigins("http://localhost:5000/",
                                        "http://localhost:8080/");
                });
            });
                services.AddDbContext<BookStoreContext>(options => options.UseNpgsql(Configura

                services.AddIdentity<AppUser, AppRole>()
                .AddEntityFrameworkStores<BookStoreContext>()
                .AddDefaultTokenProviders();
                services.AddMvc(options => options.EnableEndpointRouting = false);
            }

        // This method gets called by the runtime. Use this method to configure the HTTP r
        public void Configure(IApplicationBuilder app, IHostingEnvironment env)
        {
            if (env.IsDevelopment())
            {
                app.UseDeveloperExceptionPage();
                app.UseWebpackDevMiddleware(new WebpackDevMiddlewareOptions
                {
                    HotModuleReplacement = true
                });
            }
            else
            {
```

```
60                 app.UseExceptionHandler("/Home/Error");
61             }
62
63             app.UseStaticFiles();
64             app.UseCors(MyAllowSpecificOrigins
65             app.UseMvc(routes =>
66             {
67                 routes.MapRoute(
68                     name: "default",
69                     template: "{controller=Home}/{action=Index}/{id?}");
70
71                 routes.MapSpaFallbackRoute(
72                     name: "spa-fallback",
73                     defaults: new { controller = "Home", action = "Index" });
74             });
75         }
76     }
77 }
```

startup.cs - vue and asp.net core 3.1 integration hosted with ❤ by **GitHub** **view raw**

Let's understand the above code:

READ **Entity Framework Core 3.0 Cache Busting | Dotnet Detail**

Line # 39: here in this line, we are registering the database context with dependency injection container.

Line # 41: here in this line, we are registering the Asp.Net Core Identity service.

Now, we will add connection string for the database. So, go to project folder structure and then open the **appsettings.json** file and then add the connection string as you do see below in the file.

Note: – Make sure you have added the correct username and password for your database server.

```
1  {
2    "ConnectionStrings": {
3      "DefaultConnection": "host=localhost; database=BookStore;username=postgres;password= a
4    },
5    "Logging": {
6      "LogLevel": {
7        "Default": "Warning"
8      }
```

```
    }
}
```

appsettings.json - vue and asp.net core 3.1 integration hosted wit

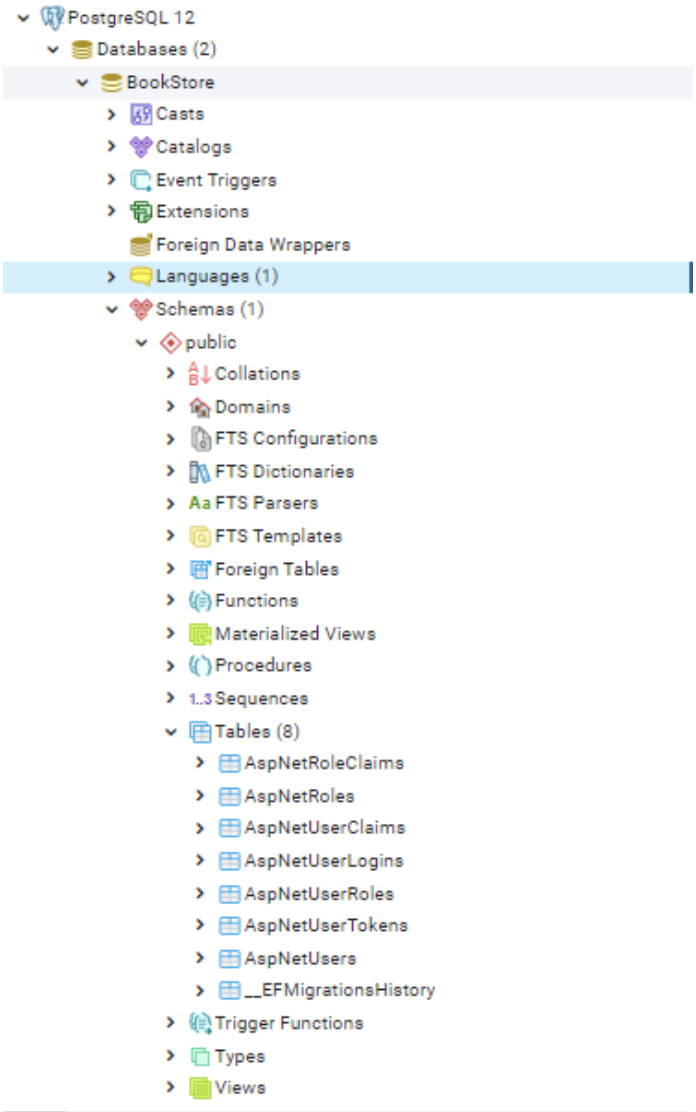
Now, add migration by running this below comm
name of **Migrations** within the project folder structu

```
=> dotnet ef migrations add initial
```

Now, run the below command to create a database.

```
=> dotnet ef database update
```

After running successfully these above commands, now go to server and then you will see the output as you do see below in the screenshot.



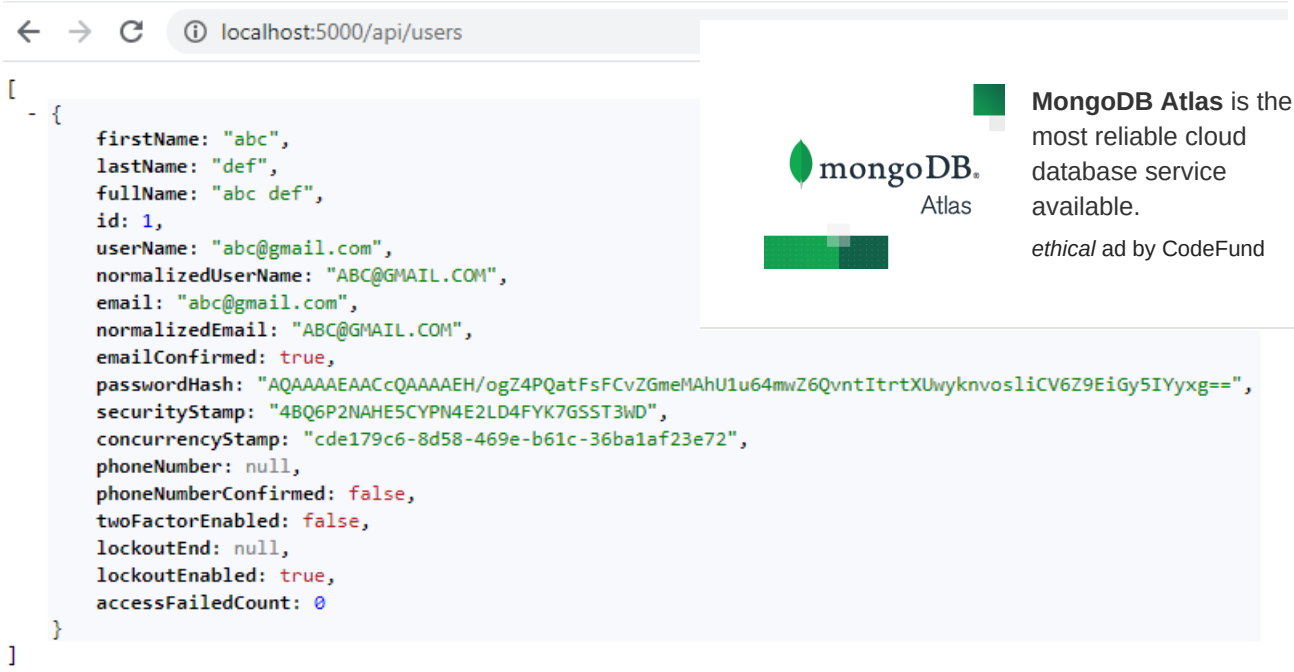
Now, go to project folder structure and then create a new file with the name of **UserController.cs** inside the **Controllers** folder. Now, write the code as you do see below in the file.

```
using System.Threading.Tasks;
using BookStore.Data;
using BookStore.Data.Entities;
using Microsoft.AspNetCore.Identity;
using Microsoft.AspNetCore.Mvc;
using Microsoft.EntityFrameworkCore;

[Route("api/users")]
    public class UsersController : ControllerBase
    {
        private readonly BookStoreContext _db;
        private readonly UserManager<AppUser> _userManager;
        public UsersController(BookStoreContext db, UserManager<AppUser> userManager)
        {
            _db = db;
            _userManager = userManager;
        }
        [HttpGet]
        public async Task<IActionResult> GetUser()
        {
            if(_userManager.FindByEmailAsync("abc@gmail.com").GetAwaiter().GetResult() ==
            {
                var user = new AppUser
                {
                    FirstName = "abc",
                    LastName = "def",
                    UserName = "abc@gmail.com",
                    Email = "abc@gmail.com",
                    EmailConfirmed = true,
                    LockoutEnabled = false
                };
                _userManager.CreateAsync(user,"Abc@123").GetAwaiter().GetResult();
            }
            return Ok(await _db.Users.ToListAsync());
        }
    }
```

UserController - vue and asp.net core 3.1 integration hosted with ♥ by **GitHub** **view raw**

Here in the above **GetUser** function, we are creating a new user if it is not exists and then return the users list.

Now, run the project by running this command (**dotnet run**) and then navigate to the url (http://localhost:5000/api/users) and then you will see the output as you do see below in the screenshot.



Congratulations! We have successfully integrated Vue and Asp.Net Core 3.1 application using visual studio code.

Note:- If you found this blog helpful then: Buy me a coffee

Thank you for reading. Please keep visiting and sharing it within your community.

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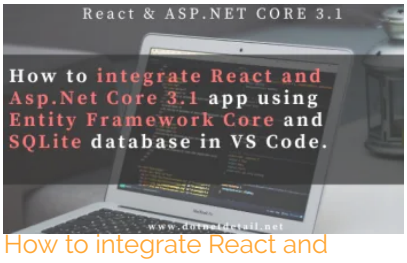

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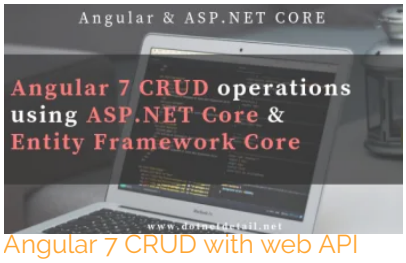

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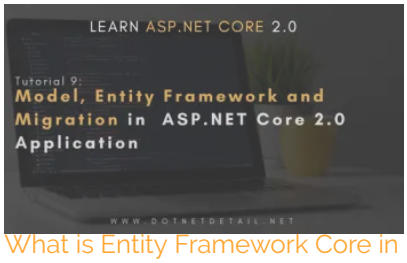

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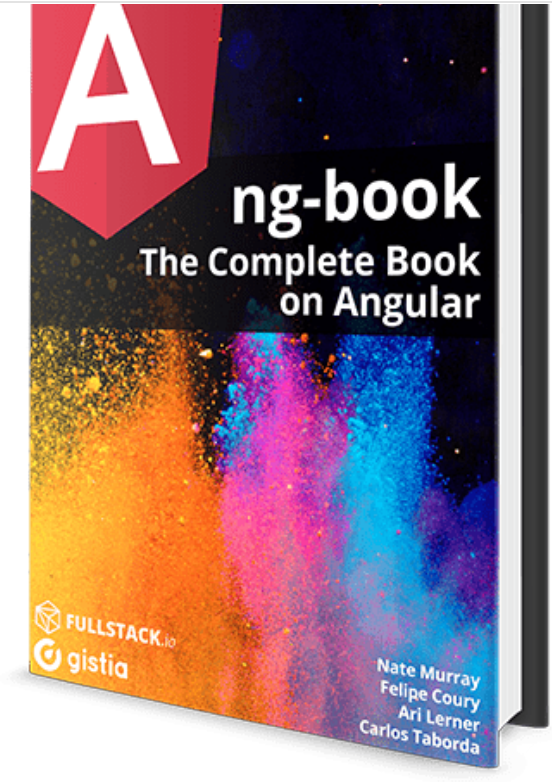

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