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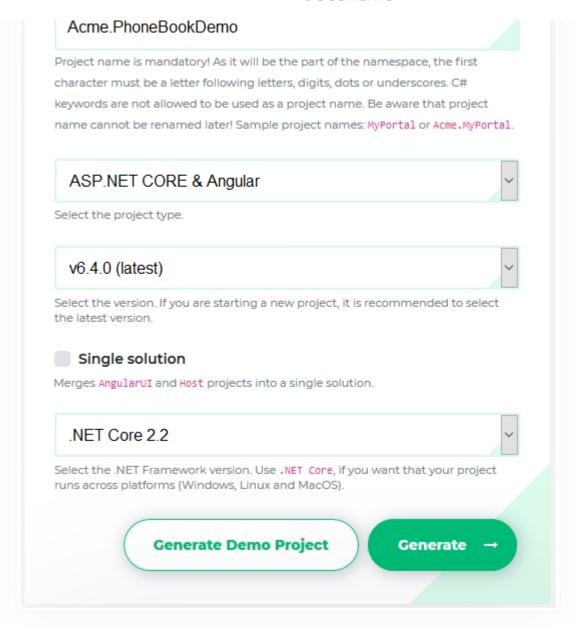
# **Getting Started**

This document is aimed to create and run an ASP.NET Zero based project in just 5 minutes. It's assumed that you already purchased and created your ASP.NET Zero account.

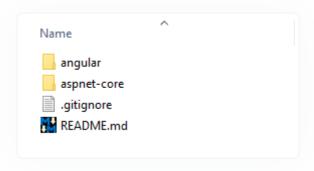
## **Create Your Project**

Login to aspnetzero.com with your username and password. Go to the download page. You will see a form as shown below:

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Select **ASP.NET Core & Angular** as Project Type and fill other required fields. Your project will be ready in one minute. When you open the downloaded zip file, you will see two folders:



• angular folder contains the Angular UI application which is configured to work with the angular-cli.

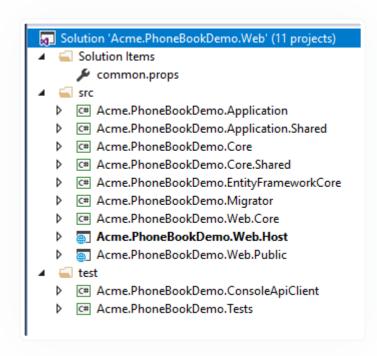
If you have selected this option, please follow Getting Started document for ASP.NET Core & Angular merged solution.

## **Pre Requirements**

- Visual Studio 2017 (v15.9.0+) (for backend ASP.NET Core application)
- Node.js 6.9+ with NPM 3.10+
- Yarn

## **ASP.NET Core Application**

When you open the server side solution (\*.Web.sln) using Visual Studio 2017+, you will see the solution structure as below:



If you want to work on only Xamarin project, open \*.Mobile.sln solution. If you want to work on both of Xamarin and Web projects, open \*.All.sln solution.



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### **Database**

### **Connection String**

Open appsettings.json in .Web.Host project and change the Default connection string if you want:

```
"ConnectionStrings": {
    "Default": "Server=localhost; Database=PhoneBookDemoDb; Trusted_Connection=True
}
```

### Migrations

We have two options to create and migrate database to the latest version.

### **ASP.NET Zero Migrator Application**

ASP.NET Zero solution includes a **.Migrator** (like Acme.PhoneBookDemo.Migrator) project in the server side solution. You can run this tool for database migrations on development and production (see migrator docs for more information).

### **Entity Framework Migration Command**

You can also use Entity Framework Core's built-in tools for migrations. Open **Package Manager Console** in Visual Studio, set \*.**EntityFrameworkCore** as the **Default Project** and run the **Update-Database** command as shown below:

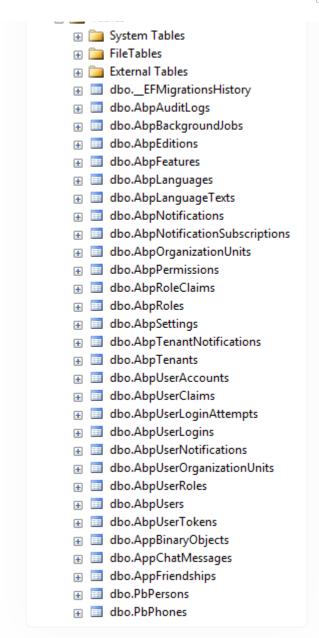


This command will create your database. Initial data will be inserted when you run the \*.Web.Host project. You can open SQL Server Management Studio to check if database is created:

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You can use EF console commands for development and Migrator.exe for production. But notice that; Migrator.exe supports running migrations in multiple databases at once, which can be useful in development/production for multi tenant applications.

### **Configure Multi-Tenancy**

ASP.NET Zero supports multi-tenant and single-tenant applications. Multi-tenancy is **enabled by default**. If you don't have an idea about multi-tenancy, you can read it on wikipedia.org/wiki/Multitenancy. If you don't want to create a multi-tenant application, you can **disable** it by setting

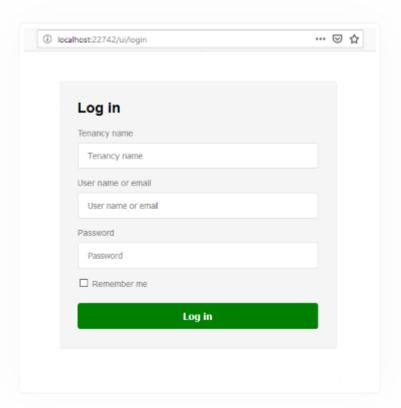
**PhoneBookDemoConsts.MultiTenancyEnabled** to false in the \*.Core.Shared project (name of the PhoneBookDemoConsts will be like *YourProjectName*Consts for your project).

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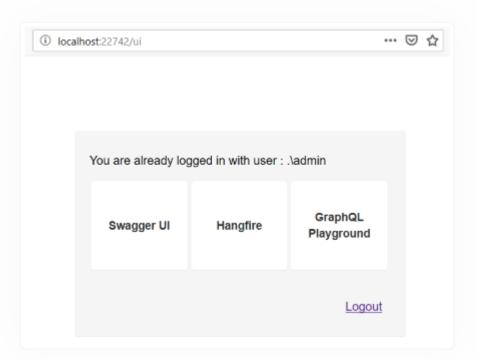


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Once you ve done the configuration, you can run the application. Server side application only contains APIS. When you start the application you will see a login page like below:



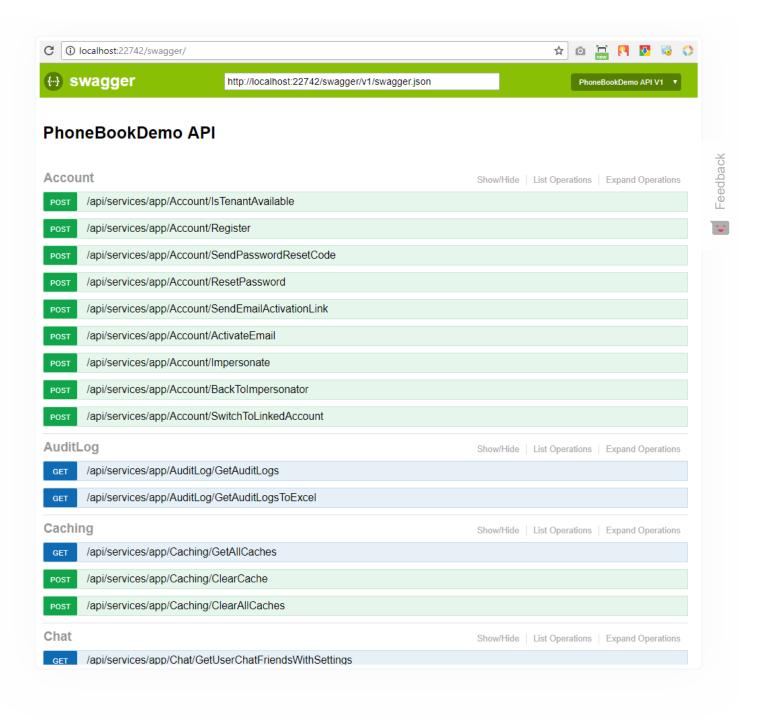
If you log in to host application, then you will see a page like below:



You can navigate to **Swagger UI**, **Hangfire Dashboard** or **GraphQL Playground** from this page. Note that, by default only Swagger UI is enabled, you can enable Hangfire by following Hangfire documentation and

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## **Angular Application**

### **Restore Packages**

Navigate to the **angular** folder, open a command line and run the following command to restore the packages:

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Then, run the following command to create dynamic bundles (This is only required for the first time when you download the project or when you update dynamic bundles):

npm run create-dynamic-bundles

We use yarn because NPM has some problems; It is slow and can not consistently resolve dependencies. Yarn solves those problems and it is compatible to NPM as well.

## **Running The Application**

Run the following command in the command line:

npm start

Once the application compiled, you can browse http://localhost:4200 in your browser. ASP.NET Zero also has also HMR (Hot Module Replacement) enabled. You can use the following command (instead of NPM start) to enable HMR on development time:

npm run hmr

### Login

All ready! Now, you can login to the application:

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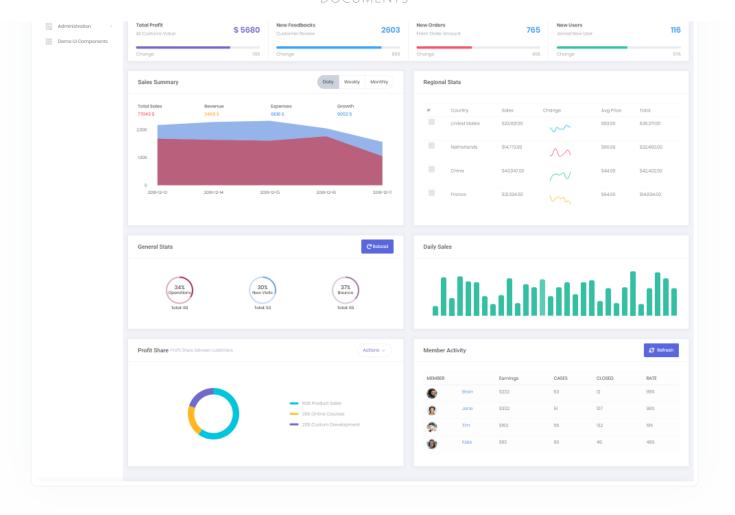
Log in				
User name or email *				
Password *				
Remember me	Forgot password?			
Log	in			
New tenant   Em	nail activation			

If multi-tenancy is enabled, you will see the current tenant and a change link. If so, click to **Change** and enter **default** as tenant name. If you leave it empty, you login as the host admin user. Then enter **admin** as username and **123qwe** as password (remember to change it to a more secure password on production!).

## **Application UI**

When you login to the application as a Tenant admin, you will see the sample dashboard screen:

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## **ASP.NET Zero Power Tools**

ASP.NET Zero Power Tools lets you to create a new page from the database to the UI layer by just typing your entity properties. It creates the entity, related permissions, application services, DTOs, client-side code, a menu element and so on... It also creates & applies database migrations.

Finally you will have a CRUD page with insert, update, delete, list and excel export functions. To minimize the effort of creating a new page, install the Power Tools from the following link:

https://marketplace.visualstudio.com/items?itemName=Volosoft.AspNetZeroPowerTools

### **Next**

Solution Overview