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# How to build and test the API REST & Angular application

## General info:

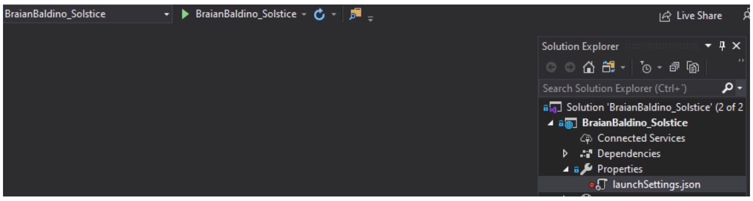
The project includes an API REST and an Angular framework project. They can be tested at the same time. The Angular project builds in the ‘wwwroot’ folder inside API project. It serves from the API calling different services. Since this technical evaluation is about C# knowledge and there were no requirements as regards frontend, I design the SPA (single page application) as I consider most convenient.

## Building Angular:

In the project find the folder named FrontAngular, once you open it with visual code or some other IDE, run the command ‘npm install’ for the framework to install the required and used modules.
The previous step is highly important for the project to build.
Once the modules installation is complete, run the command ‘ng build’. This will build all the project in the folder ‘wwwroot’ located in the API.
It´s not necessary to run ‘ng serve’. The API will run the application all together.

## Building API:

In the project find the folder named ‘API’, run the solution called ‘BraianBaldino_Solstice.sln’.
Go to solution explorer on the right side and right click, rebuild. Just to make sure files are build correctly.



IMPORTANT! : select frtom the solution dropdown the option ‘BraianBaldino_Solstice’. NOT IIS.
The API is configured to run both the API and the SPA on localhost://5000. Once you run it, the browser will be automatically open for you to navigate through the application on the web browser and test it.

## Testing Option 1:

The application can be tested running the API through the user interface. Yo will be able to see the contact-table (GetAll), add new contact (Post) and delete contacts (Delete).
IMPORTANT! : If after an action , adding or deleting, no changes on the table are shown, please refresh the page with ‘F5’ to make the changes visible. Also you can press ‘F12’ and looking at ‘console’ tab you will see some logs that i wrote on purpose just to debug and test the API responses and requests.

## Testing Option 2:

You can use any software that tests API’s . I recommend ‘Postman’. Once you run the API, these are the routes that you can test:
(GET) http://localhost:5000/api/contacts/
(GET) http://localhost:5000/api/contacts/getbystate/{state name}
(GET) http://localhost:5000/api/contacts/getbyid/{id}
(GET) http://localhost:5000/api/contacts/getbyphone/{phoneNumber}
(GET) http://localhost:5000/api/contacts/getbycity/{city}
(DELETE) http://localhost:5000/api/contacts/{id}
(POST) http://localhost:5000/api/contacts/

```
{
"birthDate": "2019-11-13",
"city": "test",
"company": "test",
"email": "test@test.com",
"name": "test",
"phoneNumber": "4345345",
"phoneType": "personal",
"profileImage": "https://cdn4.iconfinder.com/data/icons/linecon/512/photo-512.png",
"state": "test",
"street": "test"
}
```

(PUT) http://localhost:5000/api/contacts/{id}

```
{
same body as POST but add one more:
“id”= {id}
}
```