

Upstack Coding challenge

Create a simple Contacts Web application – backend and frontend in C#

1. Use .Net framework (MS NetCore 1.1/2.x... framework are fine)
2. Use your favorite ORM (Entity Framework, Drapper etc...)
3. Use any your favorite db (ms sql server (local/server), mysql, postgres, in-memory db etc)
4. Create entity Person (id <int>, first_name <string> mandatory, last_name <string>, phone <string> mandatory) and map to table **tblPersons** in database
5. Use appconfig.json and create connect string, auto create database structure (migrate script/ensure database created method) and load random seed/initial data (max 20 records)
6. Create **WebAPI** interface for Persons entity (**tblPersons**) with basic CRUD methods (use get, put, delete, post http)
7. Create automatic test functions (XUnit/NUnit/MS Tests framework etc) for some functions in order to demonstrate test unit testing concept - no full code coverage is required
8. Create frontend in your favorite framework (js, vue, react, angular...) in order to
 - a. show list of persons on web page and allow user to edit, create and delete record

UI/UX is not important in that coding challenge so make it simple. I will look inside to code not ui/ux.

No authorization interface is required, no login.

The whole project must run/setup smoothly with VS 2017 or VS Code IDE

Take your time and come back when you done (just send my your code in zip file in skype: adam.marek.adamczyk) then wait quick feedback and another summary session.

Make the **code clean and easy readable**. I am using common coding convention (camelCase...) but you can use your own. Interfaces, services, validation filters, generics etc, app layers... are welcome :-)

Max time is 3 days since now.

ex. dotnet core commands to make it work should look like :

dotnet restore

dotnet build

dotnet run