



.NET Software Engineer Technical Assignment

Things we look for in this test

We would like the candidate to show us their skills in Design/Architecture, ability to build testable and maintainable software using industry best practices.

Description

Create a .NET REST API serving the domain of Customers and Orders.
The code should have reasonable Unit-tests coverage.

Domain

Customer has Name and Email.
Customer can have multiple Orders.
Order can belong to only one Customer.
Order has at least two fields: Price and CreatedDate.

API

The application should at least expose these endpoints which do the following:

- Return a list of customers, without orders;
- Return a customer and his orders;
- Add a new Order for an existing Customer;
- Add a new Customer.

Persistence

You can use the database of your choice, like mssql, postgres, sqlite, mongodb etc.

Source Code

You should create a **private** Git repository on <https://bitbucket.org/> and invite **techtest@albumprinter.com** to access the repository.

We prefer to see that the candidate can use source control systems, so please make sure you're not pushing everything in a single commit but having small atomic steps.

Tools and libraries

You are free to use any additional third-party libraries and frameworks.

Additional information

The authentication/authorization of the API is outside of scope.
Feel free to improve the application as you see fit.
If you have any questions please reach out Vasili.

Final Notes

Simple is better than complex - complex is better than complicated. Also, readability counts.
If the implementation is hard to explain, it's a bad idea.
If the implementation is easy to explain, it may be a good idea.
Finally, please keep in mind that this assignment is a starting point of discussion, not a destination and please ensure that the assignment works and compiles before sending it for a review.

