**Coding Task for Validata Developers Evaluation**

**Requirements:**

Implement an API in C# which will manage Customers and Orders. No user interface is required, only an API to create, update and delete Customers and manage Orders. Customer entity should contain: name (first and last), address, postal code. Each Order should contain one or more Items, order date and total price. Item should contain Product and quantity of product and Product should contain name and price.

* For persistence entity framework should be used and repository pattern.
* Also, unit of work pattern is required to be implemented.
* In addition to creating/editing/deleting it is required also to support iterating over the customer orders by order date.
* Implement focusing on domain logic using Domain Driven Design.
* Segregate commands and queries using CQRS.
* Include unit tests in your project (preferably with NUnit)
* XML documentation of the API
* A short list of the assumptions that you made when designing/implementing the API.

**Assumptions**:

* Local database is used for
* No authentication required
* Customer name is required but not the address and the postal code
* Max length of various fields
* For price and quantity two decimals are enough
* Quantity can’t be negative or zero
* When creating an order, the customer and the products should already exist
* Products must not be deleted
* The products controller only exists for master data manipulation by admin and not available to the api consumer
* Multiple customers with the same name can exist