Homework

Let's write a checkout application.

* Create a basket
* Add articles into the basket
* Close the basket
* Get basket total

**REST endpoints:**

**Create basket**  
*/baskets*  
{ customer: "Andrei", paysVAT:true }

**Add article**  
*/baskets/{id}/article-line*{ article: "tomato", price: 20 }

**Retrieve basket**  
*/baskets/{id}*  
will receive a json object with all the articles added in that specific basket  
will have a field with totalNet where you just need to sum all the prices  
VAT = 10%  
{

"id": 1,

"articles": [

{

"article": "tomato",

"price": 20

},

{

"article": "juice",

"price": 10

}

],

"totalNet": 30,

"totalGross": 33,

"customer": "Andrei",

"paysVAT": true

}

**Update basket status**  
*/baskets/{id}*  
{ status:”closed” }

**ARCHITECTURE:**  
You can structure the application however you want:

* DDD-Event Sourcing
* 3rd Layer (Business , Data Access , Controllers)
* other

You need to create a swagger to use the app.

**MUST:**

* Net core 3.1 or 6(of course you can also use net standard)
* Entity framework or dapper
* Push your code into github
* Rest
* Unit tests(20% coverage)

**NICE 2 HAVE:**

* If you want to make everything asynchronous, you can use **NATS** or **Kafka**.
* Integration tests