Domain Model comments

The domain model that was provided in the project description was needed to be modified and added more classes and fields.

Initially a new class, SalesOrderLine was provided. It was a crucial implementation, because the process of the order works as follows:

The selected product is added to the SalesOrderLine where a quantity field is implemented to set the amount of each selected product. Exactly one product can be added to a SalesOrderLine and zero or many SalesOrderLine can contain the same product.

Afterwards, one or many SalesOrderLine can be added to the SalesOrder and we have exactly one SalesOrder per order.

Next, some of the multiplicities given were needed to be changed. The relation between SalesOrder and Invoice looks as follows: A SalesOrder can have only one invoice and an invoice should be connected only to one SalesOrder.

The relation between Supplier and Product also needed to be modified slightly: A Supplier can supply more products and one product can have many suppliers.

Some additional fields were provided to the classes:

* In the Customer class, an email field was provided, because customers have the possibility to make an order by sending an e-mail. An isCompany field was also provided in order to register if a customer is a private person or company (in this case, mostly clubs).
* In SalesOrder a discount and a deliveryFee attribute was added to store the value of additional fees and discounts for the price calculation methods.
* In the Product class the subclasses of item types (Clothing, Equipment and GunReplicas) were kept and an additional field – inStock – was implemented, which stores the amount of products that are available in the store. Before that point, there was no record of the current amount, only the level of minimum stock (minStock), which is responsible to store a value in order to compare it with the inStock value. If inStock is below minStock, an adequate method calls for an automatic refill for the given product from the given supplier.