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| ESILV |
| Report Final project |
| Design Pattern & Soft dev |

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**Exercice 1 – CustomQueue – Generics**

1. Introduction

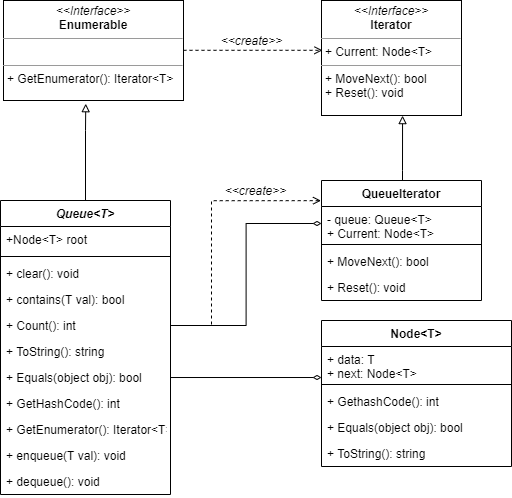
The goal here is to create from scratch an entire generic queue class. It must have all the major functions and characteristics of the provided queue as the capacity to be used in a foreach loops.

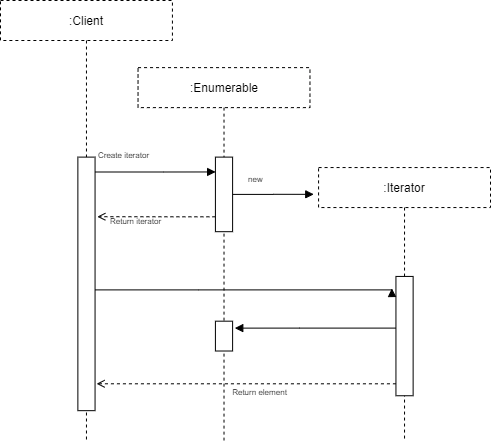
1. Design Hypotheses

For this problem, we use the model of a queue composed of nodes. Each Nodes have a generic value and a next node. A queue has a root which is the foot of the queue. In order to make the custom queue iterable, we have implemented the iterator model. Thus, we can iterate throw the nodes of a queue.

1. UML diagrams

**Class diagramm :**





**Sequence diagramm :**

1. Test cases

//CHLOE

1. Additional / Final remarks

An improvement would be to add the possibility to iterate throw the T data instead of Node<T>

**Exercice 2 – CustomQueue – Generics**

1. Introduction
2. Design Hypotheses
3. UML diagrams
4. Test cases
5. Additional / Final remarks

**Exercice 3 – CustomQueue – Generics**

1. Introduction
2. Design Hypotheses
3. UML diagrams
4. Test cases
5. Additional / Final remarks