



## ByteXpress - Team 9

ByteXecom E-commerce System

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## ITERATION - 2

**Functional Specification** - The intention for iteration two is for the ByteXpress team to outline the system requirements along with the logical view of the system we are developing for our client, Natuurlik. ByteXpress intends to demonstrate the capabilities and interactions of our proposed system in detail.

This document includes the updated requirements list, the complete set of use case diagrams, the contextual entity relationship diagram and logical class diagram. We aim to accurately show how our proposed system interacts with the different actors during the various processes to make sure that it functions efficiently as a solution to our client's business problems.



**Client Information** - Jannes Janse van Rensburg is the co-owner of Natuurlik. He is currently working as a Business Area Manager for DSV - Global Transport and Logistics.



### Client

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## 1. Iteration Introduction

In this iteration, the ByteXpress team has provided the functional specifications of the proposed system for our client, Natuurlik. Upon the completion of the project proposal the team is prepared to analyse the ByteXecom point of sales system in more detail using data modelling. This analysis of proposed system includes the updated requirements list, a complete use case diagram and entity relationship diagram in 3NF as well as a unified modelling language logical class diagram for the entire system.

## 2. Logical Class Diagram

### Introduction

This section includes the logical class diagram of the ByteXcom Ecommerce system. This class diagram includes all of the classes required for Natuurlik to facilitate its daily operations. These classes will store master data through the form of the product catalogue as well as the data used to convert inventory items to products ready to be sold. The class diagram also stores information made from sales in the form of orders which reports can be generated from to provide insight.

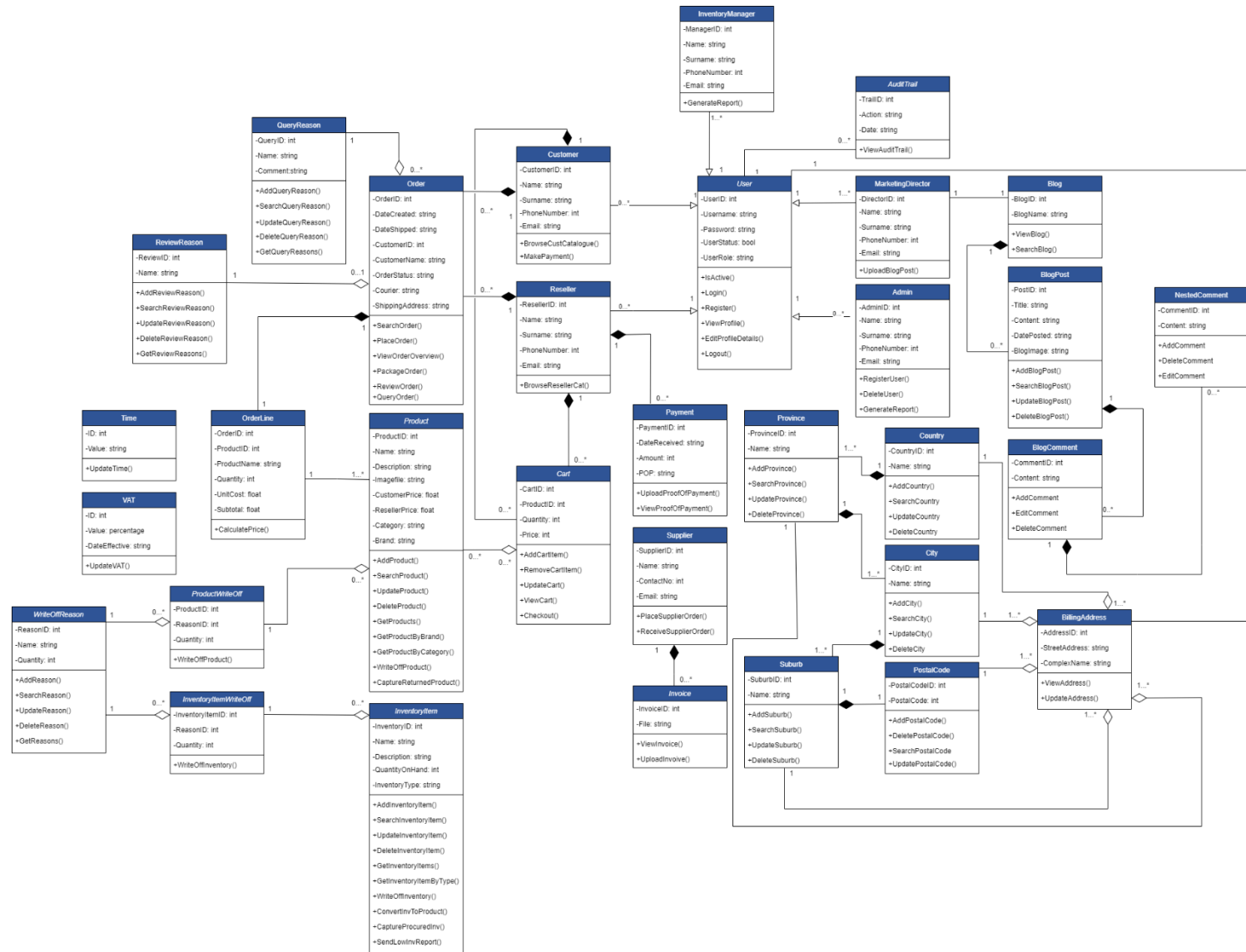


Figure 1 - ByteXecom Logical Class Diagram

## Conclusion

This concludes the logical class section of the iteration. This diagram will assist in the modelling of the SQL database for iteration 02 and will ensure that all methods are executed use the required classes for optimal results.

### 3. Iteration Conclusion

In conclusion this iteration compiled by ByteXpress detailed the functional specification of the ByteXecom point of sales and business intelligence system developed by ByteXpress for our Client Natuurlik. This document included a use case diagrams and their narratives for our entire proposed system. A complete logical entity relationship diagram that depicted our systems data entities along with their associated attributes and relationships between entities. ByteXpress also compiled UML class diagrams to show the systems classes and the relationships that remain constant in the system over time. Thus, it can be concluded the abovementioned aspects of this functional specifications iteration will contribute to the success of our next deliverable and completion of the overall system.