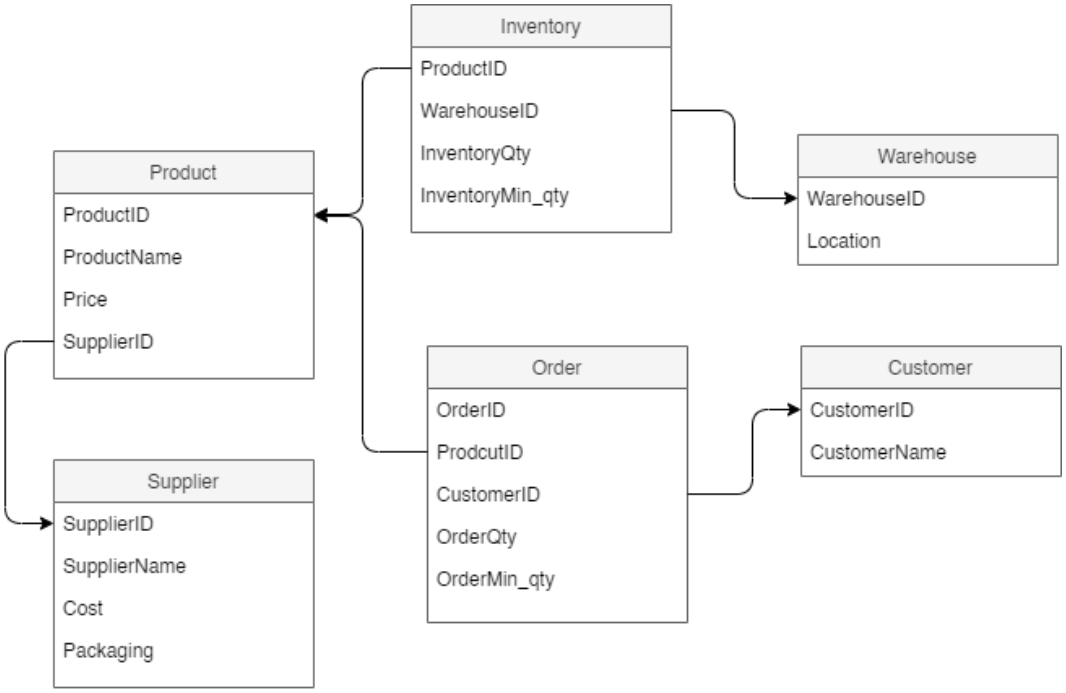
To propose a perfect basic system solution it is crucial to know its purpose, information that needs to be stored and the relationships between them. The data provided for this task is very limited. For this reason, to design a database, several suppositions were established. First, it was assumed that the database could be used in wholesalers and shops. The users would have among others information about the orders and the inventory. The scheme of such a database is shown in the figure below. It contains all data provided in the given widgets text file. However, some relationships of the provided information were assumed. For example, packaging could also belong to order instead of supplier information. Some information was also duplicated as I have found it crucial. An example of it is the quantity (Qty) which shows in both Inventory (as InventoryQty) and in Order (as OrderQty).



As mentioned above to create the perfect dataset the relationship between given information should be provided. Other concerns that need to be answered are:

1. Will there be any need for user authentification?
2. Should the database be scalable?
3. What is the budget for the database?

The database architecture could be built for example around SQL in a program such as PostgreSQL. PostgreSQL is a good choice because it's a free, open-source database system.