Large-Scale and Multi-Structured Databases **Recap Software Engineering** #1 Cooperative Group Activity

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Exercise: E-Commerce System

Define formal requirements (functional and non-functional), draw use cases diagram and carry out the data modeling stage for an "E-Commerce System" (please consider also the design of a relational DB)

Description:

The system allows to a company to sell its **products** online. Different types of products may be sold and each products is described by some common attributes, such as price, product ID and number of available pieces, and by some specific attributes. The **manager** of the company can add, remove and updates products. **Unregistered users** can only browse products sold in the e-commers systems and view their descriptions.







Exercise: E-Commerce System

Registered users can also select products and insert them into a cart. Products may be removed from the cart. When a registered user decides to buy the products in the cart, an order is created, the user is requested to make the final payment and the cart is emptied. Each registered user can view the list of his/her orders. Each order can have a different status (draft, paid, in preparation, shipped, delivered, cancelled). They system may offer some services for analytics regarding products, orders, and users.





