IS 523/SM 503 Assignment #4

Due Date: December 24, Tuesday 22:30

In this assignment you are expected to continue the development of the limited functionality version of the Inventory Management System (IMS) described in Assignment #3. The requirements of the second iteration (i.e., Assignment #4) are as follows:

1) "Manage Product Orders" use case will be realized.

a) Write these **Use Cases** in fully-dressed format.
b) Bounded by these use cases' scenarios Draw a **Domain Model** using the UML class diagram notation.
c) Draw **System Sequence Diagram(s)** for the main success scenario of each of these use cases.
d) Draw UML **Interaction Diagrams** for the design of the system realizing these use cases. Annotate every message with the hint GRASP and/or other pattern that justifies it.
e) Bounded by the interaction diagrams you have drawn in part (c) draw a **Design Class Diagram** in UML notation.
f) Realize your design **in an object-oriented programming language**.
g) You need to persist your objects. In order to **persist objects**, you may use the approach explained in the following pages.
h) You can implement **a text-based UI** for your application.

2) Following artifacts should be uploaded to ODTUCLASS assignments link by the due date:

a) Use Cases in a fully dressed format
b) Domain Model
c) System Sequence Diagram(s)
d) Interaction Diagrams
e) Design Class Diagram
f) Source Code
g) Executable Program

Notes:

- You are expected to **work in groups of 2-3 members.** The assignment should be submitted by only one member of the group.
- You have to adhere to the university's policies of academic integrity.
- The penalty for late submission is 15% per day.
- The solution should be submitted in a **single zip** file via the assignment link in ODTUCLASS.
- If you have any questions, please do not hesitate to contact me at gmert@metu.edu.tr