Assignment #2

Points: 10

Deadline for submission: 20 March 2022, 23:59
Discussion within 21-22 March
Second discussion (if needed) in 28 March

In your first assignment, you have provided a scenario that contains two systems, which need to be integrated into a more comprehensive system. In this assignment, you will demonstrate your ability in using the principles and patterns of the Domain-driven design (DDD) approach to develop an integrated “domain model” for your integrated system.

Task #1

In your first assignment, you have already defined the bounded contexts as well as the context maps (we called a “simple architecture”) of your integrated system. Although your system is represented in terms of bounded contexts and context maps, you should be able to easily identify the two systems before the integration.

Now, each team will be split into 2 sub-teams (ideally 2 members), which will be responsible for providing a partial domain model for only one of these two systems, as follows:

1.1 Start by identifying key concepts of your system, their attributes, and then define the relationships among the identified concepts.
1.2 Use the four building blocks of the tactical design (Entities, Value Objects, Aggregates, and Repositories) for representing your domain model.

Note1: You can use functions() in entities if you want.
Note2: Represent any repository as an interface.
Note3: The two teams should work separately, i.e., they should not collaborate at all during this task.

Task #2

You can work as one team (all members) in this task, take the two partial models resulting from Task #1 as an input to this task, and try to produce a single integrated domain model that represents your system-to-be.
Rules for assignment communication, submission, and discussion

1. Your assignment should contain **three models**, **two** of them will be produced by **Task#1**, and **one** integrated model will be produced by **Task#2**.

2. You need to **submit** your assignment through **Moodle**, and the document should also contain your Name(s) and student ID(s).

3. You have to submit your homework by the defined deadline.

4. You can contact me **anytime via email** to **receive early feedback** that can help you to finish this assignment appropriately, but you **need to cc** all your team members in the email.

5. I will not dedicate a lecture for the assignment discussion, I will define **time slots** in a **day or two**, which you can **book** for your discussion. The discussion, most likely, will be virtual (zoom, meet, etc.).

6. **All team members should attend the assignment discussion**; you **will not be allowed to discuss** if your team is **not complete**. If the dedicated time slots for discussion do not fit your team, contact me and we can agree on a date/time that fits all your team members but within the same week of discussion.

**Note:** You can create a **private channel for your team** in Slack (call it after your team name (e.g., team_a, team_b, etc.)) and add me to it, and use this channel for **any kind of communications**.

**A Tool:**
You can choose any tool/means to represent your model as far as the diagram is clear.

I have found this tool (Visual Paradigm: https://online.visual-paradigm.com/), it is a free online drawing environment with a simple interface. You could find others of course.