

Dear students,

Here is some help/important observations on common problems with the submissions for “Assignment 1: UML Modeling and Programming with EMF” due this Friday:

**Task 1-3:**

- Make sure that the description of Task 1 is reflected in all models you create. It is possible to not include all details in all models, but the main elements should be there.
  - As an example, if the description talks about buying and returning books then the UseCase Diagram, the Activity Diagram and the Class Diagram need to show both options and cannot model buying books only.

**Task 3b Business Constraints:**

- The business constraints have to constrain what is expressed in the Class Diagram, e.g., the Class Diagram must allow things that the business constraints do not allow.
  - As an example, if the Class Diagram shows that a customer needs 1..\* transactions then “A customer has at least one transaction.” is NOT a valid business constraint for 3b.
- All business constraints must be possible to express in OCL, e.g., they cannot refer to things not shown in the Class Diagram.
  - As an example, if employees in the Class Diagram do not have an age or birthdate then “Employees must be at least 18 years old.” is NOT a valid business constraint for 3b.  
*You don’t have to express all of them OCL, but if I try, it must be possible.*
- The example on page 7 is invalid: it should be “self” instead of “this”.

**Task 4:**

- The instance you create must match your Object Diagram with all properties (all attributes and links must be identical).
- You will have to submit the code of all projects by exporting all projects as an archive file.
- The relevant code for Task 4 is in Sect. 13 of the EMF tutorial you worked on during computer labs.
- If saving the resource throws a **DanglingHREFException**, check out this paragraph in Sect. 13: “If you persistent an EMF object all dependent object will automatically be persistent. Objects which do not have a “contains relationship” must be added explicitly to the resource.getContents().add(). If objects are not added and not included in a contains relationship an exception is thrown when calling the resource.save() method.”

Please let me know of any questions as soon as possible.

Best,

Jan