

Project 2, DTS
Phase 2 (Implementation) Description
Due: 8:00AM on 4/4

Project 2 Phase 2

- Implement your design in C# (complete the DTS_Project solution)
- You need to submit the following:
 1. an object diagram based on the design we discussed at the Phase 1 meeting (I will check if you can draw an object diagram correctly)
 2. a class diagram that represent the object diagram correctly
 - You need to fill all fields, methods, and associations (with names and multiplicities) in the diagram
 - It may be difficult to identify all the methods (including private methods) in the design phase, so it is ok to complete the methods in the class diagram after you finish your implementation (based on your code).
 3. a sequence diagram for the “Tenant initiates a call” use case
 - you do not need to develop a sequence diagram for the “System administrator maintains the system” use-case)
 - You do not have to show alternation or repetition.
 - If you have an if statement, draw the then part and then the else part.

Project 2 Phase 2 (cont)

4. C# code

- Use List<T> to implement all collections
- You must use a lambda expression at least once (with the Find, RemoveAll methods (and possibly others) of List<T>
- Your code must completely match your class diagram.
- If you need to change your design, update your object/class/sequence diagrams as well.
 - It is a common practice to change a design slightly when you implement it since you may not know every detail of the program until you actually implement it.
 - However, you must stick to the basic design which we agreed on during your meeting with me
- Write code as cleanly as possible

Project 2 Phase 2 (cont)

- Notes:
 - The due is strictly at 8:00am on 4/4. I will download all the submissions only once at the due time. Late submissions are not accepted. We will grade your work as is.
 - This is strictly an individual project. You are not allowed to discuss the project with other people, except for me or Ana. Read “AcademicHonesty.html”.
 - At the meeting, I will check (1) if your object, class, sequence diagrams are correct (multiplicities, etc), (2) your code exactly matches your class diagram, and (3) the quality of your code (you may want to review Chapter 4 (Refactoring) of Part 1 of the course notes).

Project 2 Phase 2 (cont)

- How to submit your work
 - Create a directory after your LastName_FirstName (e.g., Mizuno_Masaaki in my case)
 - Put your solution directory (delete the obj and bin directories), an object diagram file (.ppt, .pptx, pdf, or jpg), and .uml file (class diagram and sequence diagram) in the directory
 - Zip the directory
 - Submit the zip file in the dropbox named “Project 2 Phase 2”
- It is a good idea to download and unzip your file to check if your submission follows the above guideline, after you have uploaded it.
- If you resubmit your work, submit with the same zip file name. The system attaches _1, _2, etc, to the file name and I will know which one is the latest submission