# Homework 08 – Refinement of Design and Programming

Refine the design and programming of your Project with following notes:
1. Class design
    a. Operation design
    b. Method design
2. Data modeling
    a. Study, design and implement indexes for your database with the chosen DBMS. Write a description for indexes you make (E.g. hy do you design that index for this attribute / table? Which type of index do you use and Why? How do you implement in index in your DBMS?...).
    b. Use external schema (e.g. view, stored procedure) for connecting and manipulating to the database
3. Programming
    a. Propose the coding convention for your Project (may be follow a standard one you can search in the Internet).
    b. Make your sourcecode following the proposed coding convention. Check style for your sourcecode using plug-ins for your IDE (manually if not applicable for the languages you write).
    c. Refactor your source code
    d. Document for your program (e.g. Javadoc comments), including for classes, attributes and methods. You can have a look at an example of the String class of Java API:
    http://hg.openjdk.java.net/jdk7u/jdk7u6/jdk/file/8c2c5d63a17e/src/share/classes/java/lang/String.java
    e. Using a tool (e.g. Eclipse, Netbean) to automatically convert class diagrams to codes. Compare to some codes that you wrote (each member make a report for comparison).
    f. Using a tool to generate the documentation of your program. If you use Java, it looks like
    https://docs.oracle.com/javase/7/docs/api/index.html?java/lang/String.html