

Homework 09 – 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. Why 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. Tune/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 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>
 - f. Develop more use cases to make a complete project.