Database project checklist

Tick the box when you have finished the task! Tasks in *italics* are optional.

Documentation

☐ Write a brief summary of your system's intent and a list of your system's features
☐ *Prepare a slide-based presentation for your finished system*
☐ *Write a design document of your system, explaining why you did what*

Diagrams

☐ Draw an E-R diagram of your system (at least 5 entities and 1 many to many relationship!)
☐ Draw an UML diagram of your system (at least 5 classes and 1 many to many relationship!)

Structure

☐ Develop a database manager that uses plain JDBC
☐ Develop a database manager that uses JPA
☐ Develop a XML manager
☐ Components must interact via objects or primary keys
☐ Create a text-based menu separated from your database manager or…
☐ *…create a GUI separated from your database manager*

JDBC

☐ Create all database tables
☐ Insert new data into at least 2 tables
☐ Show all elements of at least 2 tables
☐ Search by 1 column other than the primary key (of your choice) in at least 1 table
☐ Update data in at least 1 table
☐ Delete data from at least 1 table
☐ Insert data into at least 1 table with 1 or more foreign keys
☐ *Use binary objects (like images) in at least 1 table*

JPA

☐ Annotate at least 2 entity classes that share an association
☐ Make at least 1 create operation using JPA
☐ Make at least 1 read (that involves search) operation using JPA
☐ Make at least 1 update operation using JPA
☐ Make at least 1 delete operation using JPA
☐ *Use inheritance with JPA*

XML

☐ Create a schema
☐ Use XSLT to produce a HTML, *extra points if it's cool and/or uses CSS2!*
☐ Marshall and unmarshall at least 1 entity using JAXB
☐ *Export/import your whole database to/from XML using JAXB*

Finishing touches

☐ Make sure your system fulfills the purpose stated in the intent document and squash all bugs
☐ Send it to the professor! Or better…
☐ *…put your project (and documentation) in GitHub*