

# Assignment: Database and Information Systems

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## COMP2013J: Databases and Information Systems

### Weight: 30% of final grade

This assignment is a group programming project. You should make a group yourself, and each group should have four members and pick a name for your team/application. Please fill in your team information in the file using the link below before **9th April**.

<https://docs.google.com/spreadsheets/d/11-HhfEGf2iRV7QIkJPm6q-mRKUI0O-ROn3yF7D4Chg/edit?usp=sharing>

If you do not have a team, please contact our head TA, **Jiantao Wu** ([jiantao.wu@ucdconnect.ie](mailto:jiantao.wu@ucdconnect.ie)) before the deadline so we can help you get placed into a team. The head TA has the right to add a new team member to a team with fewer than four members.

This is a self-proposed project, you can develop any information system you wish, so long as it meets the following criteria:

- It is an information system.
- It must include a database system, and the database should be complex enough to cover the knowledge learned from the lectures and labs.
- It can include a nice user interface. e.g. Web, application, etc.
- The system you proposed must be implemented by using a Java-based solution, and also any ORM technology and complicated MVC frameworks are not recommended.
- There is a clear division of labour between team members.
- It is legal.

The assignment will start from Week 8. From week 10, each group needs to write down their self-assessing for the previous two weeks (One paragraph) and the group plan for the next two weeks (One paragraph) and email it to our head TA, **Jiantao Wu** ([jiantao.wu@ucdconnect.ie](mailto:jiantao.wu@ucdconnect.ie)). In other words, every team needs to send this tiny report every two weeks (week 10, week 12, and week 14). The email subject should be "COMP2013J GroupXX WeekYY" (e.g., COMP2013J Group01 Week10). When the project finished, these self-assessing records should be attached as appendixes into your report.

At the end of the semester, each group must write **a report** documenting all aspects of the project. The report should include but not limit to the following sections:

- System Description (Describe the system you want to build and document any assumptions that you make.)
- System Architecture Diagram.
- Tasks. (Every step of your design and implementation process, e.g. Creating ER diagram to model a database for your system, Mapping the ER diagram to a relational model, CREATE TABLE statements for your relational model, etc.)
- Team Member Contribution.
- Self-assessing and self-feedback records.

The report should have screenshots of the user interface and other necessary diagrams.

Each group must prepare a video (around 10 mins) to present their system. All group members are expected to participate equally in the preparation and delivery; unequal participation will reduce grade awarded.

The interview of each group will be held on after submission. The timetable for each group will be given later. Each group will have 10-15 mins (5 mins for your live demonstration and 5-10 mins for QA).

### **Note**

- This assignment may require you to do some independent research outside of what is directly covered in the lectures.
- Any software code should be included as a .zip file and uploaded to Brightspace. The files uploaded should be complete and in the correct format, i.e. it should be possible to download, compile (if applicable) and run.
- Only one member should make the submission.
- Be careful, a sophisticated system without track records (plans and self-assessment reports) or a good explanation and understanding during the interview will receive little credit.
- The deadline for submission (a pdf copy of the report, a video, a zip file including code, and data) will be **26th May**. Note, these files must be submitted as an individual file, i.e., your pdf report and your video must be submitted as an individual file, which should not be compressed into the zip file.