Introduction to Database Systems

Term Project: Demo, Report, Grading and Submission

1. Introduction

The semester is coming to an end, we assume you had some progress on the term project. In the end of the project, you will need to submit one demo video, one report, and upload your code to your github/gitlab repository. Keep reading for details:

2. Demo Video

Each team is required to record a short video, in which you demonstrate your application. In the video you need to show the functions of your application, we recommend you to use screen recording since the quality of recording will be better. **The video should not be longer than 5 minutes**. You can add caption for better explanation.

3. Report

The most important part of the project is your report, each team need to submit one report. In the report, you need to include the following points:

- Data
    - Similar to what you did in the proposal, but this time we need a more complete version of description of your data
    - Tables, columns, data source, etc. your information about data should be as detail as possible
    - Try to do normalization on your data?
        - It is not necessary to use the normalized data in your application but please try to normalize it
    - Draw a ER model of your data
        - if you change the scheme, please draw two, corresponding to before and after respectively
- Database
    - What database do you use (MySQL, SQLite, etc.)
    - How do you maintain your database (update data, add new data etc.)
    - Describe how you connect your database to your application as detail as possible

        - use text, graphs, tables, etc. make your explaination clear and complete
        - how your backend process queries from application? do you do exception handling? what if someone do something unexpected?
    - Remember, this is the **MOST IMPORTANT** part of your project, please try to elaborate more about this part, describe all the details.
- Application
    - Describe the interface of your application
    - Describe the functions of your application (what it can do)
    - For each function of your application describe how you make it possible in detail
        - query design (including discussion on "why the query is designed like this")
        - exception handling
- Others
    - Draw the progress of your project
        - what was the expected progress
        - the actual progress
    - What were the problems you met in the project, how did you solve them?
    - List the contribution of each team member in the project clearly
    - Provide a link to your repository
    - Provide a link to your discussion channel

You should write this report as detail as possible, we expect **at least 7~8 pages** (this is just the minimum number) of report from each team. No specific format required, but please make it reasonably easy to read.

4. Grading

The table below shows the score distribution of the project:

	Score
Proposal	10%
Presentation	15%
Demo Video	25%
Report	50%

5. Submission

- The deadline of this homework is **07/01 (Wed.) 23:59:59**, **no late submission accepted this time,** but you can contact TAs **in advance** if you have problem with this deadline.
- For report, you only need to submit one file to New e3. The report should named as "**Project_TeamXX.pdf**", where XX is your team number.
- We **only accept one pdf file**, wrong format or naming format cause -10 points to your score.
- For demo video, TAs will open a folder on Google Drive to let you upload your demo video. The video should named as "**Project_TeamXX.mp4**", where XX is your team number.
- We **only accept one .mp4 file**, wrong format or naming format cause -10 points to your score.

If there is anything you are not sure regarding submission, ask in the forum.