

Introduction to Database Systems

Term Project: Presentation, Report, Grading and Submission

1. Introduction

At the end of the project, you will need to submit **one presentation video, one presentation slide, one report**, and **upload your code to your github/gitlab** repository. Please keep reading for details.

2. Presentation video

Each team has a total of 20 minutes to finish the presentation including **presentation** (10 min), and **demo**(10 min). Judgment of your presentation will include **contents, fluency, slides, and time control**.

Contents of Presentation

You can decide the content of your presentation, but at least contain the following components.

- Main idea:
 - The purpose of your application
- Dataset:
 - The information of the data, and show some samples.
- Database:
 - Try to use the conceptual data model or the ER model to tell how you use your dataset.
- Function of application:
 - Briefly describe the function you implement with some figures, or you can choose to present in the demo part.
- The contribution of each team member

Demo

The purpose of the demo is to better show what your application does. So, you can choose to record a video in advance or run your application live during recording your presentation video.

3. Report

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

- Main idea (5%)
 - The purpose of your application
- Data (15%)
 - 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 constructed in your database**, etc.
your information about data should be as detail as possible
 - Draw an ER model of your schema
- Database (40%)
 - What database do you use (MySQL, SQLite, mongoDB, 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 explanation clear and complete
 - How does your backend process queries from applications? Do you do exception handling? What if someone does 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 (30%)
 - Describe the interface of your application
 - Describe the functions of your application (what it can do)
 - each of CRUD (create, read update delete) function should be implemented at least one.
 - 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 (10%)
 - **The link to where your project code is stored (github/gitlab repository)**
 - 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 detailed as possible, we expect **at least 6 pages** (this is just the minimum number) of reports from each team. No specific format is required, but please make it reasonably easy to read.

4. Grading

The table below shows the score distribution of the project:

	Score
Proposal	20%
Presentation (video + slide)	30%
Report	50%

5. Submission

- For the **report**, please submit to the e3 platform. The report should be named "**Project_TeamXX.pdf**", where XX is your team number. Each team only needs to submit once.
- For the **presentation slide video**, please upload it to [Google Drive](#) and name it "**Project_Presentation_TeamXX.pdf**", where XX is your team number. Each team only needs to submit once.
- For the **presentation video**, please upload it to [Google Drive](#) and name it "**Project_Presentation_TeamXX.mp4**", where XX is your team number. Each team only needs to submit once.
- The deadline is **1/11 (Thr.) 23:59:00**, **no late submission is accepted this time**, but you can contact TAs in advance if you have a problem with this deadline.
- Please be aware that you are required to upload **a total of three files: the report** on the E3 platform, and **the video and presentation slides** on Google Drive. Additionally, ensure that you specify **the link to your code** in the report.
- For each wrong naming format causes **-10** points to your score.

If you have any questions, please post them on the discussion board.