EE5178
112-2 Homework 4
Final Project Proposal

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Part A: Personal Research Proposal (60%)

- From the related database conferences, identify one paper which you are interested and potentially would like to consider as the direction of your final project, and write a one-page summary report on the paper.
  - In the special case where you need to include diagram or program, please don't exceed 2 pages.
- You are advised to select the paper from one of the following conferences between 2018 till this year
  - Internationa Conference on management of data & Symposium on Principles of Database System (SIGMOD/PODS)
    - Example link: https://2023.sigmod.org/
  - International Conference on Very Large Data Bases (VLDB)
    - Example link: https://vldb.org/2023/
  - ICDE
    - Example link: https://icde2023.ics.uci.edu/
  - If you have special reason that you would like to choose a paper from another conference, please email the professor and get permission first. However, this is in general not encouraged.

Part A (Cont.)

- Your write-up should include the following parts and follow the ACM conference submission format.
- Title and authors:
  - **Titlte of paper**: include the title, the authors of the paper, and the name and year of the conference where it was published
  - **Reviewer**: Your name, department and year (e.g. 電機工程學系碩士班碩一), student ID
- Abstract
- Content sections:
  - **Problem definition**: what problem does the author try to solve
  - **Prior work**: what is the prior work; what were the solutions before this paper
  - **Solution**: Description of the author's solution
  - **Results**: what's the result of the author's solution. (experiment numbers and/or theorectical results)
  - **Critique**: your critique of the work. where did the work do a good job? Why?
  - **Extension**: if you are to build a project based on this paper, how will you formulate the project. Such as (but not limited to)
    - Make the system run better (faster, more accurate)
    - Add new functionality
    - Build new system on top of this work, or combine this system with other systems to do new things

ACM format: https://www.acm.org/publications/proceedings-template

Part B: Team Final Project Proposal (40%)

- Your write-up should follow the ACM conference submission format.
- The team members should discuss and come up with one final project proposal for each team.
- The write-up must include the following sections and follow acm conference format:
  - **Title part:**
    - Title of the project, and member information.
    - Group information include: Group number (and group name, if you prefer), name and department and year information, and student ID for each group member
  - **Abstract**
  - **Content part**:
    - **Problem definition (or project objectives)**: what you want to solve or accomplish in this project
    - **Motivation**: why such work is interesting or useful to users
    - **Background information**: related prior work or any other general information you want to say about this final project
    - **Main approach**: the approach you plan to take about this project; what you plan to do to accomplish your objectives. Describe the steps or the pieces of work you will need to do
    - **Expected outcome**: describe how your result will looks like. If you want to implement or improve a system, describe what your implemented or improved system looks like, and how it works.
    - **Reference**: the papers, web-sites, or other systems or resources that you references for this write-up

ACM format: https://www.acm.org/publications/proceedings-template

Part B (cont.)

- Notes:
  - Each group only need to submit one proposal for part B of homework 4, and each team member will have the same score for this part
  - The proposal should be 2 to 3 pages long. It is preferred that your proposal not exceed 3 pages.
  - You are allowed to change direction or change topic of your final project after you submit the proposal
- Notes:
  - Your final project proposal will be assigned scored based on:
    - (1) Creativity of problem setting, (2) quality and depth of the proposed solution
  - The final project itself will eventually be scored based the following at the end of the semester:
    - (1) reativity of problem setting, (2) quality and depth of your system design, (3) completeness of your implementation, (4) quality of your presentation

HW4 Submission

- Deadline: **05/02 Thu. 23:59 (GMT+8)**
- **(1) 姓名/系級未寫或不清楚扣5分 (2) 內容未按照格式/ACM樣板扣5分 (both for A and B parts)**
- File name: hw4_{student_id}_partA.pdf, hw4_Group{number}_partB.pdf 分兩個作業區上傳
- **hw4_r11012345_partA.pdf** 上傳至 **HW4 PartA** 作業區
- **hw4_Group1_partB.pdf** 上傳至 **HW4 PartB** 作業區 **(組員其中一人上傳即可)**
- Submission: **NTU COOL 作業區**
- Delay
  - One day: original score * 0.8
  - More than two days: get no points (只能遲交一天)
- TA hour: Tue. 16:20-17:00 at BL113 (原教室)
- TA mail: ntudb2024.ta@gmail.com
- Teacher's email: mllo2003@ntu.edu.tw