Term Project – Phase 1: Initial Proposal

1st submission due: 11:59PM Friday, April 3, 2020
2nd submission due: 11:59PM Friday, April 10, 2020

- This is a collaborative team project running throughout the semester; Please be clear with HGU CSEE Standard on team project:
  - Team project is an educational procedure which helps the students to develop major related skills and abilities as well as teamwork, communication skills, and morality through the experience of carrying out a mission as a team.
  - As a member of the team, each student should fulfill their responsibility by diligently completing individual tasks and respecting other members.
  - Students should do their best in team projects as poor performance of one member impacts that whole team and causes unnecessary damage.
  - In case of mutual peer evaluation in a team project, each member should evaluate other students fairly based on their role and contribution. It is cheating to request or to give higher evaluation beyond the actual contribution, especially to a member who has poorly participated.
  - It is cheating if a team uses the whole or part of the product that is not completed by team members except when it is clearly allowed.
- When finished, submit your work to *LMS*.

Throughout the semester, we are going to build database applications in collaboration. There are two tracks for the project:
- Regular track: The main topic of your database and database application may cover you and your team's primary interests.
  - *E.g.*, KBO baseball statistics database and review system, classical music database and recommendation system, Pohang restaurant database and review collecting website, …
- Special track on the unification education: The topic of your project should be relevant to North Korea and the unification of Korea.
  - *E.g.*, North Korean science and technology database and a catalog interface, North Korean sport league database and associated web application, …
  - References: 북한과학기술네트워크 http://www.nktech.net/, North Korea Statistics Database https://www.nknews.org/pro/north-korea-statistics-database/

As the first milestone, you are asked to submit a project proposal with the initial database schema. Your proposal should include, but not limited to, the following sections:
- **Motivation**: Explain the background and context why the topic is interesting or important to the public (not just to you and your team). If your end-product is for people in a specific domain, explain why the topic is critical to the domain.
- **Goals**: State what your team would like to ultimately achieve by making this effort.
- **Expected outcomes**: Describe what your end-product would be like. What kind of data your database contains? How many tables (relations) and records (tuples) you are expecting to have?

What kind of application you are planning to develop? Which platform and language you are going to develop with?

- **Broad impact**: Describe the potential impact of your project to the broad society. Explain how it would benefit social good?

Along with your answers to the above description, your proposal is supposed to include a planned timeline of the project. If you are not familiar with such, you may refer to the linked samples below:
- http://groups.ischool.berkeley.edu/iars_bears/images/projectline.jpg
- https://www.senseiprojectsolutions.com/wp-content/uploads/2019/10/02.-Portfolio-Timeline-1.png
- https://www.slideteam.net/media/catalog/product/cache/960x720/s/o/software_roadmap_timeline_showing_database_schema_user_profiles_Slide01.jpg

Coming up with a projected timeline would not be simple, especially while you are catching up with the relevant fundamentals in the same course. However, scheduling a project is one of the core parts of the proposal that enables people in and out of the project to

Lastly, your proposal should include the initial design of your database. Try to follow the principles and procedure that we have discussed in class. You may use the E-R diagram to summarize your database schema. There are a few tools that have been loved by people:
- erwin Data Modeler https://erwin.com/services/erwin-academic-program/
- StarUML http://staruml.io/

And several online tools are also available:
- Microsoft Visio https://office.live.com/start/visio.aspx
- Lucidchart https://www.lucidchart.com/pages/examples/er-diagram-tool
- ERDPlus https://erdplus.com/

Submission

Upon completion, submit your proposal to *LMS*. There will be a posting for proposal submission among the *Lecture Contents* stream. There will be two submission due dates, which are arranged with a week interval.
- 11:59PM, Friday April 3, 2020: This deadline is for collecting your ideas, understanding the distribution of topics, and providing you with feedback – we will check whether your submission is made before the deadline; however, we will not evaluate your proposal.
- 11:59PM, Friday April 10, 2020: This deadline is for the final submission of your proposal – we will check the submission time and evaluate your proposal.

The same penalties will be applied to the late submissions.
- Late submissions within 24 hours from the deadline: 20% reduction from the grade
- Late submissions after 24 hours from the deadline: the submission will not be accepted