Large-scale distributed systems

Overview

We will be following an hybrid approach to this subject. You can find my inspiration in https://www.distributed-systems.net/index.php/teaching-distributed-systems/

We will have :

Classical presentations on theoretical classes

Promotion of critical thinking in practical classes, namely developing an essay and a small pilot

Overview

In practical classes, teams of up to three persons will:

- Choose and research a theme, prepare and present an essay;
- Peer-review one essay and a pilot application
- Develop the pilot of a personal electronic health record system.

General rules
- Use of AI tools is not allowed
- Intermediate work is not graded
- hard deadlines: submission of essay, submission of pilot application
  - because the peer-reviews of other teams depend on the availability of your work.

Schedule

After week 1:
- Groups have been formed
- Topic has been selected

After week 3: Per-group appointments
- Studied the problem (by existing material)
- Prepared an annotated group presentation

After week 5: Per-group appointments
- Each member studied a specific subproblem
- Each member prepared an annotated presentation

Schedule

After week 7:

- Groups have prepared an advice (as an essay)
- Groups have prepared a 20-minute presentation

Week 10:

- Each group studied the essay from one other group, and prepares a set of questions to act as an opponent, where each student has prepared 2 questions per essay
- Each group presents and discusses its work

Schedule

Week 11-13:

• Groups will develop a pilot of the personal electronic health record system

Week 14:

• Each group studied the application from one other group, and prepares a set of questions to act as an opponent, where each student has prepared 1-2 questions per application

• Each group presents and discusses its work

Evaluation

Weighted average of the works developed: (9*essay+3*pilot)/12

The final grade of each student will consider the individual contribution and the group work: (6*group work + 4*individual work)