1. 7What are the names and NetIDs of all your team members? Who is the captain? The captain will have more administrative duties than team members.

   Netids:
   td2 (Tianli Ding)
   yimengh2 (Yimeng Han)
   yusenw2 (Yusen Wang) captain

2. What system have you chosen? Which subtopic(s) under the system?

   Improving a system. EducationalWeb system.

3. Briefly describe the datasets, algorithms or techniques you plan to use

   Dataset: All slides & recommendation slides based on a slide; All courses & lectures; Courses, lectures, and visited slides owned by each user.
   Algorithms/techniques: Improve the performance of loading one slide each time

4. If you are adding a function, how will you demonstrate that it works as expected? If you are improving a function, how will you show your implementation actually works better?

   We would prefer to have a questionnaire asking others to test the two different systems, both original and improved systems.

5. How will your code communicate with or utilize the system? It is also fine to build your own systems, just please state your plan clearly.

   We are planning to improve the existing system and integrate the tool with piazza.

6. Which programming language do you plan to use?

   Python

7. Please justify that the workload of your topic is at least 20*N hours, N being the total number of students in your team. You may list the main tasks to be completed, and the estimated time cost for each task.

   - **Each find one course to retrieve all the slides (2 hrs *N)**
   - **Get familiar with the code: https://github.com/CS410Fall2020/EducationalWeb (4-5*N hrs)**
   - **Extract the text on the slides, catch and process error (3-4 *N hrs)**
   - **Adding into recommendation system (2-3 *N hrs)**
   - **Test and improve the system (7-8 *N hrs)**