

Project Proposal - Group SN

1. What are the names and NetIDs of all your team members? Who is the captain? The captain will have more administrative duties than team members.
Team members: Bojiang Li (bojiang3), Zhanyuan Ye(zye19), Yunfei Ma(yunfeim2).
Captain: Bojiang Li
2. What system have you chosen? Which subtopic(s) under the system?
We have chosen EducationalWeb system. The subtopic under the system is *“Improving the usability and reach of the existing system”*.
3. Briefly describe the datasets, algorithms or techniques you plan to use
We will use Elasticsearch to implement searching functionality. We plan to use Python and JavaScript to build the frontend and backend.
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 will have a user interface to test if our function can have the expected performance like observing if the searching results are related to the search keys.
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 will just implement some additional functions based on the finished system.
6. Which programming language do you plan to use?
We plan to use Python and JavaScript.
7. Please justify that the workload of your topic is at least $20 \times N$ 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.
 - Project Setup - 15 hours
 - Implement Function 1 - 15 hours
 - Implement Function 2 - 15 hours
 - Implement Function 3 - 15 hours
 - Test and optimize - 10 hours