Proposal
CS410 - team SM

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.

Name	NetId	Captain
Minsoo Kim	minsoo4	O
Suejung Kang	suejung2	

2. **What is your free topic? Please give a detailed description. What is the task? Why is it important or interesting? What is your planned approach? What tools, systems or datasets are involved? What is the expected outcome? How are you going to evaluate your work?**
- Building question and answering modules based on campuswire.
    - Campuswire search service only takes exact matched word for search. For example, if we type in "homework" we can't find the post talks about "assignment". New module will use word embedding which will catch the similarity of "homework" and "assignment". Furthermore, student might type in sentenced question to find posts that can answer their question.
    - Crawled data from capuswire will be used for question and answering.
    - Outcome will be simple web demo, user types in the question and get a list of answers.
    - 1) working demo of question and answering 2) compare query satisfaction with current search engince of campuswire.
3. Which programming language do you plan to use?
- Python, Javascript
4. 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.

List of main tasks
- Crawling the capuswire posts and answers. - 8H
- Building question and answering module that retrieve most similar posts that answers the query(=question) - 25H or more
- Building Web demo components(backend api and frontend web etc..) - 7H