**Part A**

For COVID-19 Intelligent Query System, I primary developed the user interface and build the user database. I did apply and build the skills I identified in my assessment in Fall semester. So far, I developed the user interface with my HTML, Bootstrap, and CSS skill. Firstly, I would receive a blueprint from the design team with its specification. From there, I made a root template that was reusable for all different pages. After that, I created independent components and adjusted its specification (paddings, margins, etc) until the appearance matched the original design. For the user database, I usually sat down with my advisor to discuss which information he wanted to maintain our user. Then, I would apply my knowledge in database design class to organize and normalize our database schema. From those two tasks, I learned how to design user interface aesthetically. Those are the valuable lessons I received from my designers. I also learned how to create database whose structure is convenient for querying and reusable. I used to be very stressful when having to deal with designing task, but currently, I feel very comfortable working with designing user interface and database.

I feel very proud that I successfully created a functional version of COVID-IQS. Its user interface is responsive and working on phone screen. However, I still feel the existence of some obstacles. The current technique (jQuery, jinja2) seems to be primitive to develop user interface. That leads to complicated, ugly, and vulnerable code in our frontend design. Another obstacle is that sometimes, the designers just gave me a blueprint but I am not even sure how I could recreate it in Bootstrap. Definitely, the barrier between people from different discipline is a big challenge

**Part B**

Our accomplishment is to create a functional version of COVID-IQS. Right now, it has most of features we want: search for article by term, create/edit/delete project, create/edit/share repository, add/remove article. I learn from the group work that you always have to a work distribution that every team member could work independently. That approach will optimize the work efficiency of the whole project and remove the scenario where a member has to wait for the other to finish his/her work. In my opinion, with our team, the work distribution was good in terms of technical requirements. I was assigned frontend development, and I also had previous co-op experience, although not much, with user interface development. My other teammate is more interested and greater in algorithm, so he was assigned more article-processing tasks. The aspect I am not satisfied was that our development timeline. We agreed that March 15th should be the date we merged our project. However, it was not until two days before Tech Expo that my teammate completed his portion.

However, even with his lateness, I still feel he deserved special recognition. His assigned tasks were: pre-processing a huge database of articles and extracting meta-map for all articles. All of them were extremely time-consuming and tedious. It took 2-3 weeks to complete the execution, and if he detects a bug/crash in between, he would have to it all again. He definitely put a lot of effort to keep track with my demanding timeline.

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