| **Student** | **Semester** | **Task** | **Hours** | **Semester total** | **Year Total** |
| --- | --- | --- | --- | --- | --- |
| Hoang Vu | Fall 2021 | Develop and run data crawling pipeline | 60 | 150 | 230 |
| Develop and run article preprocessing pipeline | 60 |
| Develop search function | 30 |
| Spring 2022 | Modify data crawling pipeline to use new article id | 20 | 80 |
| Add metamap preprocessing | 40 |
| Run pipeline to update database | 20 |

Justification paragraph

In the first semester, I had to develop the data crawling and article processing brand new. That took a lot of time at first. Running and testing the process also took much time, especially for the article preprocessing process.

In the second semester, besides adding the metamap component to the pipeline and some modification regarding the article id, I did not work much on the actual coding. Most of my time was spent on running the pipeline on the new dataset.