

# CS 410 (Fall 2023): Final Project Progress Report

Team CAHJ

## Completed Tasks

Our team has successfully created a script that logs in and authenticates a user's Coursera account, and then scrapes a given user's Coursera course transcripts. We have also successfully managed to index scraped Coursera course transcripts in JSON format, utilizing ElasticSearch. Finally, we have created the skeleton of the Chrome extension that will serve as the point of contact between the user and the backend. Finally, we have begun writing the documentation that will guide the user through using the Chrome extension.

## Remaining Tasks

While implementation has started, we have not completed the search functionality. Similarly, the UI of the plugin, as well as how the plugin will interact with the Python backend, has not yet been completed. Finally, the ChatGPT integration to provide further information to the user based on their search query has not yet begun.

In summary, from the original breakdown from our proposal:

- Coursera login and authentication integration (10 hours) [Completed]
- Coursera video transcript scraping and indexing (10 hours) [Completed]
- Search function buildout (10 hours) [Begun]
- ChatGPT integration (10 hours) [Not started]
- Chrome extension and UI buildout (40 hours) [Begun]
- Documentation [Begun]

## Challenges Faced

We have not yet fully landed on how to integrate the backend code (primarily written in Python) with the frontend Chrome extension (written in HTML and JavaScript). As a group we have a few ideas and have found some documentation online, but this is currently the largest open question the group has.