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CS5002

Self-Assessment

Throughout developing ULang, I worked on a large portion of the pages, specifically the sidebar, as well as the home, set creation, word creation, flash cards, vocabulary practice, conjugation practice, and the UI of the pronunciation practice pages. All these pages, excluding the pronunciation page, I designed and programmed all the functionality for, including the connections to the database and routing when it was needed. As mentioned in my initial assessment in the Fall, the skills I learned in User Interface 1 and Database Design were beneficial in deciding how each page should look and operate, as well as how to effectively utilize our database when adding new data or retrieving previously created data. My co-op experiences helped with designing the UI from a user's point of view and with testing the site for usability. Even while building on my past experiences from classes and co-ops, I still learned a lot because I had never created a whole, functioning web application/site before.

Since the entire front end was done in Vue.js, I learned a lot about how to properly use components instead of copying and pasting the same code everywhere and how to pass data between them. I had very little experience with web development, and even less with Vue, before starting the project, so learning the basics and specifically the technologies and implementations we decided to use was a little difficult, but now that we have completed it, I feel I have a pretty strong grasp on how to make web applications using Vue and MongoDB. I am proud of the home page that I worked on, which utilizes all aspects of the app, pulling from the DB for the quick access marked sets and recently created sets, as well as showing the recently accessed pages from local browser storage, each of which can be clicked to take the user to the sets' pages or the activity. The major obstacle I faced while working on the project was learning how the API calls to retrieve the data from the DB worked. I had not previously used MongoDB or had to write API calls before, so learning how to do both and combine them was a challenge.