The senior design project is for the students at UC to take the information they learned and explore more in topics that interest them. The project can be about things students learned in class. A student can also base their project on something they learned on coop. My Specic project is to build a website that generates a TBR list. A TBR stands for To Be Read. I took concepts I learned in class and in the coop as inspiration for my project.

Many of my college classes did not specifically prepare me for web development. However, I did learn the basics of computer science and some database design. The first helpful class was data structures CS 2028. We are going to be sorting through largely unsorted data, so the advanced sorting algorithms will be helpful. Another class that comes to mind is Database design CS 4092**.** In database design, we learned how to manipulate a SQL database, which we might do in our project.

Most of what I have learned about website development is from my last coop at refract labs. I worked primarily as the backend website developer intern. I did a bit of work on the front end as well. I had to learn quickly and on the job. We are going to be using a lot of github. In my seconnd to last coop I had to teach teenagers how to use git hub.

I am motivated because this is a website I would actually use. I love reading and am constantly on the look out on where to get book recommendations.This is a program idea that i have been thinking about doing for a while now. I am also motivated because I am working with Nolan. We work really well together, and we learn fast together. We have been working together since Data Strucutres.

Our preliminary approach is get something smaller working then scale it up. We plan on having a backend, fronend, and database set up. On the frontend, we want to have three working search criteria. The backend should handle most of the filtering and searching. The database will start as about 600 entries before moving on the an API. We will know when er complete when we can filter by three criteria and get a list of recommendations back.