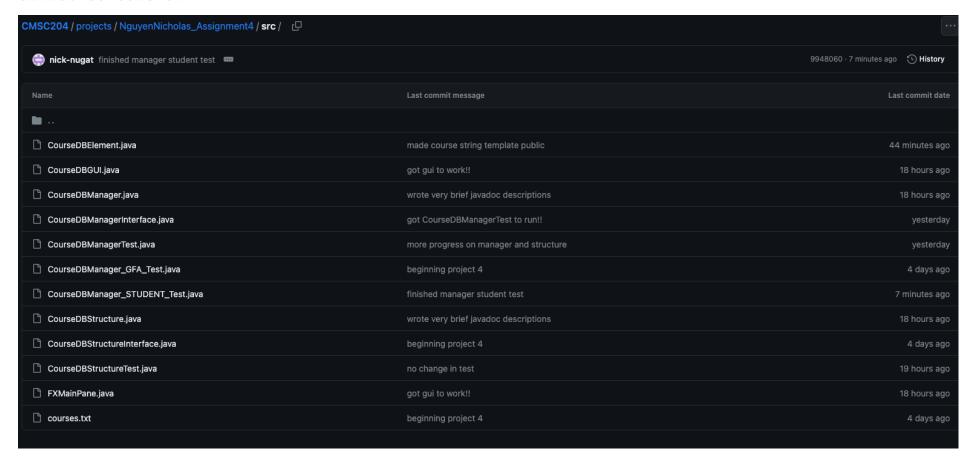
Final Assignment 4 Design

- Nicholas Nguyen
- CMSC204 GitHub Repository

GitHub screenshot



Learning experience

I enjoyed working on this project. I learned a good bit about concepts to use when implementing a database and especially about hashing and more about how it works.

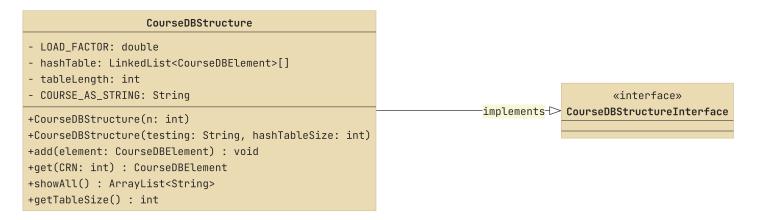
I struggled with getting some tests to pass, as well as knowing what fields, methods, and constructors to have. Since there was no JavaDoc provided to follow like usual, I was a little thrown off, but I eventually got through it and found it to be nicer to learn by reading through the interfaces and figuring out how I may implement the methods listed in them.

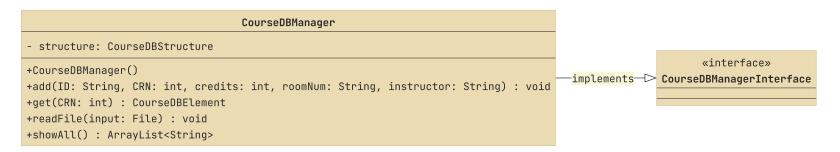
I wouldn't really do anything differently next project; I feel like I did pretty well on this one.

UML diagram

Course Database







Pseudocode

- CourseDBElement
 - blueprint for a course with attributes for the course id, crn number, room number, and instructor name
 - getters and setters for each attribute

• CourseDBStructure

- represents a hash table with buckets
- each hash code is based on the crn since unique to every course

• CourseDBManager

- data manager class that allows users to read courses from a text file
- uses CourseDBStructure quite a bit
 - calls some of its methods
- can be used to enter data manually