

List of team members

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Initial decisions

When starting this lab I decided to implement it in Python because that is the language I am most comfortable with and thought would be the easiest. I used VSCode for everything as this is also what I am most comfortable with.

Notes on your chosen internal architecture

Initially I was thinking about doing one big list of entries and then splitting each entry to access the data but eventually discarded that idea. I then thought about using one big dictionary but then realized I would have to choose a key for each entry and didn't like the idea of having to choose something like their first or last name as the key as it would add an element of importance to that attribute which I didn't like. Additionally, although unlikely, there could be multiple people with the same last name. I eventually ended up doing a list of dictionaries as my data structure because this would let me easily iterate through everything and I would be able to access the information I want based on the name of it as those are the keys.

Task log

Task 1: Implement function to get data from students.txt

Time: 1 hour

Task 2: Implement function to format data into my list of dictionaries

Time: 30 minutes

Task 3: Implement visual of command menu

Time: 10 minutes

Task 4: Implement functions for each command

Time: 1 hour for the first, 10 minutes for subsequent ones

Task 5: Implement command menu functionality

Time: 2 hours

Task 6: Make functions print info neatly

Time: 2 hours

Task 7: Fix bugs with each function

Time: 1 hour

Task 8: Create tests and record results

Time: 1 hour

Notes on testing

I tested all my functions along the way but also created my actual test cases at the very end. I would say there were only a handful of bugs, the only issues I had were figuring out how to print something the way I wanted. In general, I was able to fix things in under 10 minutes.

Final notes

None.