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Implementation Notes

We chose to use Python as the language for our implementation, as it is a relatively simple language that we all have experience with. For our architecture, we decided to store the data in several dictionaries, so that we could quickly index using a search term. We created 5 dictionaries with the following keys: student last name, teacher last name, bus number, grade, and GPA. Each of these dictionaries contains a list student objects that correspond to that key.

Task Log

Flo:

• Student Object:

Start: 10:00am on Wed 4/3End: 11am on Wed 4/3

o Person Hours: 1

• Search Commands

Start: 3:00pm on Thurs 4/4
End: 4:00pm on Thurs 4/4

o Person Hours: 1

Test Script

Start: 1:00pm on Friday 4/5End 3:00pm on Friday 4/5

o Person Hours: 2

Daniel:

Parse Students.txt and Populate Dictionaries

Start: 10:00am on Wed 4/3End: 11:30pm on Wed 4/3

o Person Hours: 2

Manual Testing

Start: 11:00am on Thurs 4/4
End: 12:00pm on Thurs 4/4

o Person Hours: 1

Steven:

• Command Line Prompts and Parsing

Start: 10:00am on Wed 4/3

- o End: 11:30am on Wed 4/3
- o Person Hours: 1.5

Testing Notes

- Daniel did some preliminary manual testing. It took just under an hour to go through commands by hand and test some sample input.
 - Bugs that were fixed:
 - Average gpa query would not output correctly if high/low flags were used
 - Data type of GPA stored in our objects would not work for average calculation
- Various issues with nonexistent keys
- Flo wrote the test files and handled most of the testing. It took roughly 2 hours to write test and fix bugs.
 - Bugs that were fixed:
 - Invalid files were not properly handled
 - Wrong command line argument was used for query
 - Whitespace formatting was inconsistent
 - Wrong number of arguments would crash the program