

Jett Moy

Chris Creber

Write-Up 1-2

Programming Language:

- Java

Environment:

-

Data structures:

- ArrayList
 - o Used ArrayList to hold Student and Teacher objects that we implemented.
- Student
 - o Class used to hold first name, last name, grade, classroom, bus route, and gpa.
- Teacher
 - o Class that contained data about teacher name and classroom.

Task log:

- Jett
 - o Extended Search ~ 2 hr
 - o Tracing ~ 1 hr
- Chris
 - o Analytics ~ 1 hr
 - o Testing ~ 1 hr

Testing:

- Parsing ,
- Bug made classroom numbers out of order
- Additional class for class size

Additional:

Part 1 Modifications:

To accomade new input data, which parts of code were affected

Query Language Additions:

C[classroom]: <number> S[tudents] | T[eachers]

- Given a classroom number, list all students assigned to it or teacher.

Example

Enter New Selection: C: 101 S

Student 1

Name: carlee Durand

Example

Enter New Selection: C: 101 T
Teacher 1
Name: reuben cool

G[rade]: <number> T[eachers]

- Given a grade, find all teachers who teach it.

Example

Enter New Selection: G: 1 T

Teachers for grade 2:

gale steib

gavin hamer

E[nrollment]

- List of classrooms ordered by classroom number, with a total number of students in each of the classrooms.

Example

Enter New Selection: E

Analytics

T[eacher]: <lastname> A[nalytics]

- Given a teacher's last name, list all of the GPA's for the students in the class.

Example

Enter New Selection: T: falker A

GPA 1: 2.85

GPA 2: 3.14

B[us]: <number> A[nalytics]

- Given a bus route, find the gpa of all of the students on the route.

Example

Enter New Selection: B: 51 A

G[rade]: <number> A[nalytics]

- Display the gpa of all the students in a given grade.

Example

Enter New Selection G: 3 A