Week 11 Lab: Fake Database

In this lab, you will be working as a team for the first time. The goal for the team is to create a database that will keep track of student attendance. This week, the work will be similar to the database you created last week: the additional complication is that the students name is also associated with the record. Remember that a string is an array of characters; a `char *` is a pointer to that array.

I recommend splitting the various tasks up among the team members. This weeks tasks should be familiar, so you have an idea of how complicated they are.

Get Backlog and Files

1. From your Unix account, get the files using:

   - `wget sp.nathanielgmartin.com/db1.zip`

   - If you are on campus remember to log in to the Internet first.

2. Unzip the files in db1.zip using:

   - `unzip db1.zip`

3. You will find a Makefile, a completed db.h, a complete test.c, and a partially complete db.c that will guide you through the process of writing the files. Your task is to complete the files in db.c

Tips

- Much of the code for the first story can be copied from calc.c

Demo

Today you will be demoing the entire database implemented as an array of structures. The team will demonstrate one program.

Marks

- Story 1 (15 marks)

  - Proper formatting and clean compilation (5 marks)

  - UI works (10 marks)

- Story 2 (15 marks)

  - Proper formatting and clean compilation (5 marks)

  - Adds a record. (10 marks)

- Story 3 (15 marks)
  - Proper formatting and clean compilation (5 marks)
  - Print all records. (10 marks)
- Story 4 (15 marks)
  - Proper formatting and clean compilation (5 marks)
  - Correctly adds multiple records (10 marks)
- Story 5 (15 marks)
  - Proper formatting and clean compilation (5 marks)
  - Correctly adds a set of student records. (10 marks)
- Story 6 (15 marks)
  - Proper formatting and clean compilation (5 marks)
  - Correctly finds a student record. (10 marks)
- Story 7 (15 marks)
  - Proper formatting and clean compilation (5 marks)
  - Correctly modifies a student record. (10 marks)
- Story 8 (15 marks)
  - Proper formatting and clean compilation (5 marks)
  - Correctly deletes a student record. (10 marks)