HOMEWORK 1: OVERALL DESIGN

CLASSES:

COURSE
- ↳ Course name
- ↳ Course id
- ↳ max capacity
- ↳ number registered
- ↳ names of students in class
- ↳ instructor name
- ↳ section number
- ↳ Location

USER
- ↳ username
- ↳ Password
- ↳ First name
- ↳ Last name
- ↳ view courses ()

STUDENT INTERFACE — EXTENDS / IMPLEMENTS → **STUDENT**

ADMIN INTERFACE — EXTENDS / IMPLEMENTS → **ADMIN**

OTHER:

FILES:
1. COURSELIST.csv
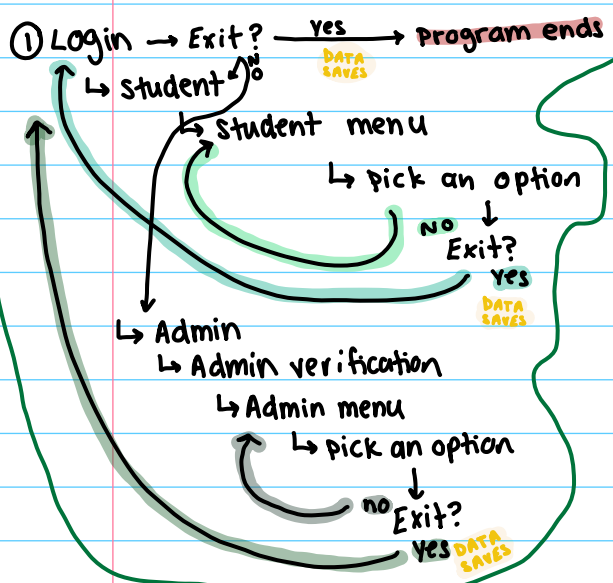2. FULLCOURSES.CSV
3. DATA.ser

REGISTRATION SYS
- ↳ The main
  - ○ File I/O → reading from csv and saving data as an array list of courses
  - ○ Student & admin login
    - ↳ admin login verification
  - ○ Student & admin menu
  - ○ Student & admin method implementations
- ↳ Serialization
  - ↳ save info method
- ↳ deserialization
  - ↳ get info method

HOW IT WORKS

① Login → Exit? —Yes→ Program ends (DATA SAVES)
- NO
- ↳ student → Student menu
  - ↳ Pick an option
    - NO → Exit?
      - Yes (DATA SAVES)
- ↳ Admin
  - ↳ Admin verification
    - ↳ Admin menu
      - ↳ pick an option
        - no → Exit?
          - Yes (DATA SAVES)

SERIALIZATION

↳ The program is serialized so that the inputs/data are saved from run to run.

↳ This was done by importing and implementing 'Serializable' in the Course, Admin Interface, and Student Interface Classes. And then by defining the save info and get info methods in the Registration Sys Class.