**IB Dossier Criterion A**

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Period 2b

**Problem:**

This year my school implemented a new gradebook in order to ease the use for administrators for scheduling purposes. But this was done at the expense of the teachers. The software is hard to use and teachers are having a hard time learning how to use the program. This program will be easy to use for students, teachers and administrators. The new gradebook that the school implemented took out many features that many students took for granted like the organization of grades. Teachers also lost many perks like creating assignments for all classes. This program will also make it easier for administrators to schedule classes and exams like IB or AP. My teacher will be my supervisor and my friend also a student will be a client.

***Rationale for solution*:**

The reason for making this project is to help students, teachers, and administrators use a unified program that is easy to use. This program needs to be simple and concise, so all of the users can use it without any documentation.   
 I am going to use Java to Program because

* It has a flexible graphical user interfaces
  + Allowing for simplicity of the interface.
* Java is multiplatform
  + Enables the program to run on
    - Mac
    - Windows
    - Linux
  + Java is a free download from
* There is a lot of documentation to help the programmer program the project, which helps speed up the process.
* Changing code in java is an easy solution allowing for the client to give back feedback and ensure that the feedback is going to make it in the final project.

**Criteria for Success**

* The interface is easy to navigate and easy to understand.
* Each user (teacher, student, and administrator) must be able to create an account that is unique that the computer generates.
* The program must be able to be used by administrators, teachers, and students.
  + Administrators will be able to
    - Create classes
    - Add students.
    - Add students to classes
    - Schedule students for AP/ IB exams
    - Be able to print any student’s summary.
  + Teachers will be able to
    - Create assignments
      * Add a grade for each student
    - Switch between their classes each teacher has 8 classes they teach
    - Create a summary of all of their classes and each individual student and only their students
  + Students will be able to
    - Check their grades
    - Print a summary for all of their grades.
    - Flag a grade for a teacher to check if it is wrong.

Word count 416