Criterion A - Planning

<u>Problem Statement</u>

It is hard to keep track of all the students Ms.Washington has without a database.

<u>Description of Scenario</u>

Ms.Washington is a full-time mother and tutor of around 10-100 students. She works with any of her students' problems, from SAT practice all the way to giving out suggestions to college essays. She often finds it hard to keep track of all of her students.

<u>Rationale for the Proposed Product</u>

According to Ms. Washington, stated in the initial interview (between 1:30- 2:00), she claimed and put emphasis on the fact that she sometimes could have 10-100 students to keep track of.[1] This would definitely mean that conventional record-holding is not effective, and would take too much time to execute these numerous tasks. A GUI application is a good solution to this problem because it is user friendly for people who are average computer users. Java is a good language to be using because :

- Its versatility
- OOP's efficiency in adding objects like individual students.
- I am familiar with Java
- It runs on many platforms
- It has a good development environment

<u>Success Criteria</u>

- The user would be able to enter, delete and search up a student in the application. [2]

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[1]Ruby Washington, interview by author, Bangkok, November 26, 2019, audio recording 1:30, Appendix 1

[2] Ruby Washington, interview by author, Bangkok, November 26, 2019, audio recording 2:30, Appendix 1

- ● Two students can be pulled up by the user and a comparison can be done. [3]
- ● Student scheduling time for an appointment[4]
- ● The user can also have a divided view of the students, separated and organised by the test they are taking and or age group. The user can sort the names of the students by alphabetical, low-high score and high-low score. [5]
- ● The application included a "help" and "emergency help" button, one giving instructions to the user and the other notifies the developer directly.[6]
- ● Warnings pop-up for incorrect data type input[7]

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[3] Ruby Washington, interview by author, Bangkok, November 26, 2019, audio recording 3:30, Appendix 1

[4] Ruby Washington, interview by author, Bangkok, November 26, 2019, audio recording 4:50, Appendix 1

[5] Ruby Washington, interview by author, Bangkok, November 26, 2019, audio recording 5:50, Appendix 1

[6] Ruby Washington, interview by author, Bangkok, November 26, 2019, audio recording 9:10, Appendix 1

[7] Ruby Washington, interview by author, Bangkok, November 26, 2019, audio recording 9:30, Appendix 1

Appendix 1: Initial interview transcription

Jacob_Lyu__Initial
_Interview.mp4

Appendix 2: Transcript of Prototype Interview(not to be included in word count)

<u>Simplified Written Transcription of Prototype Interview</u>

- **I liked how the program looks and I'm Looking forward to the graphs and calendars that is going to add more flavor to the app.**
- **I think I want more multiple deadlines, many of the students have multiple deadlines to keep track of. These deadlines are equally as important to these students.**
  - No Problem I'll work on that
- **There are many GPA systems that my students use, more than 10, hence we should have a way so that GPA is not restricted to just 2 types**
  - Alright, we can change that so it is a general inquiry of any GPA system I will work on the graph so that it can incorporate multiple GPAs.
    - **Sounds Great!**
- **When we are describing a student, we also need to see his/her enrollment year so that I know what grade he/ she is in.**
  - OK
- **We need to include scores for SAT and other tests outside of school**
  - OK
- **I have great anticipation for the graphs but they need to be in different colors**
  - Ok, and I'll set the two color to be in high contrast, like red and blue.
    - **Can you make the better student blue and vice versa?**
      - Yes!
- **Include a purpose section of the meeting tab so that I know what the main gist of the meeting is.**
  - OK