

Criterion B solution overview

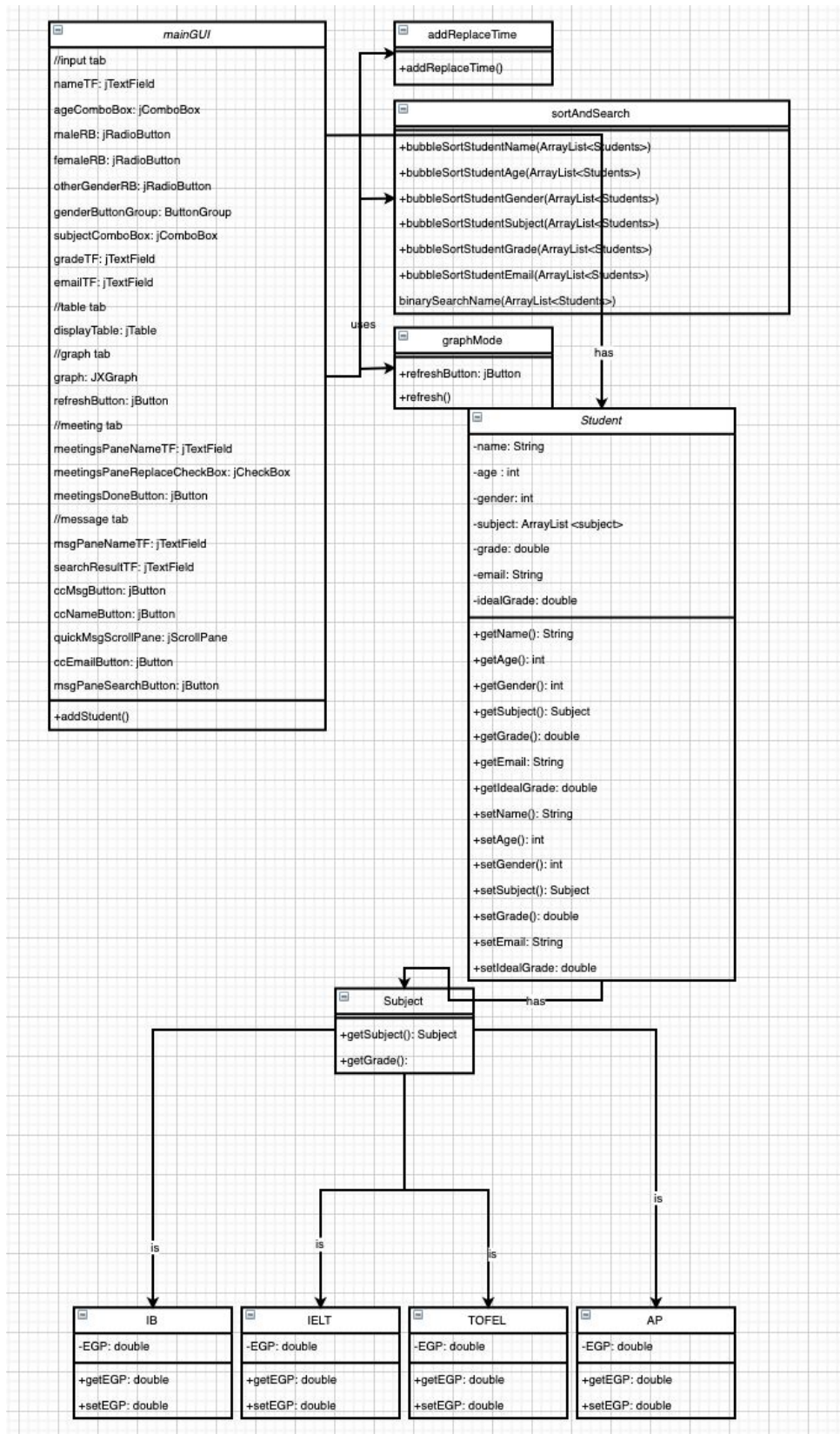
Input & Output

Input Menu

Input	Data Type	Normal Ranges	Example
Student Name	String	Not left blank;	Jacob Lyu
Student Age	Int	1-99	23
Gender	String	Male, Female or Other	Male
Subject	String Array	1-4 courses	SAT, IELTS, etc
Subject	String	1 out of the #of subjects	SAT super score
Grade	Double	0.0 to something	1500
Student Email	String	An email	adafawasd@gmail.com
Replace Time	Boolean	true/false	true
Replaced Time	Calendar	A date after today	2019.08.1
Quick Text	String	N/A	I'll be late.

Output	Data Type	Normal Ranges	Example
List of students	Class Array	Show all students	Jacob Lyu/14/231/3123.../.../ //...../...../
Graph	J-free chart	Show all data recorded	A line
Designated Time	Calendar	A date after today	2019.08.1
Result Email	String	An email	adwwadadw@gmail.com

Class Diagram:



Prototype & Annotation:

After I have finished the prototype, I went through screenshots of it with my client, she liked most of the features and gave ample amounts of feedback. The feedback on how the grade is inputted caught my highest attention, I will be focusing on solving that first because it is key and it is relatively easy to do.

Input Table Graph Meetings Message

Name

Age

Gender Male Female Other

Subject

Closest Deadline

GPA(0-4.4)

GPA(0-7)

Email

Input

more dead lines

why is this necessary? there are millions of them

needs an addition of the student's enrollment year

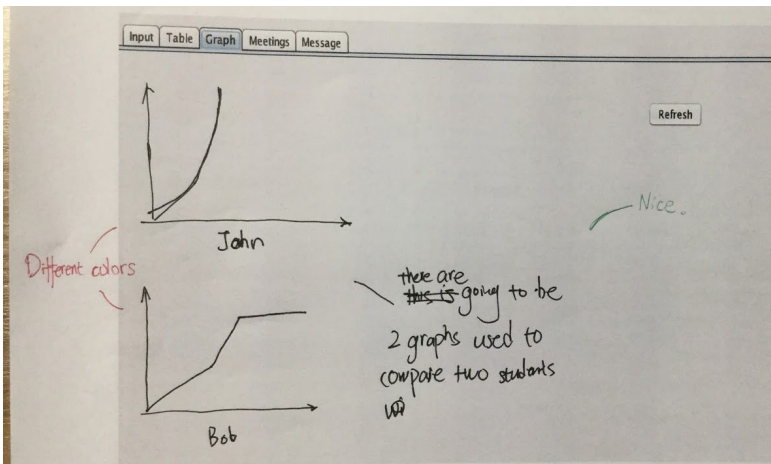
where are the test scores for SAT? Great?

Input Table Graph Meetings Message

Sort Sort Sort Sort Sort Sort Sort Sort

Name Age Gender Subject Closest Dea... GPA04 GPA07 Email

each of these buttons are used to organize the students by ~~test~~ out of 8 criteria



Input Table Graph Meetings Message

Name of Student

Designated Meeting Time

Replace Current Time

Replaced Time

Replace?

I'm Done

Add in purpose of the meeting.

there will be ~~calendar~~ calendars for you to select a day.

Input Table Graph Meetings **Message**

Name of Student

Search

Copy to Clipboard

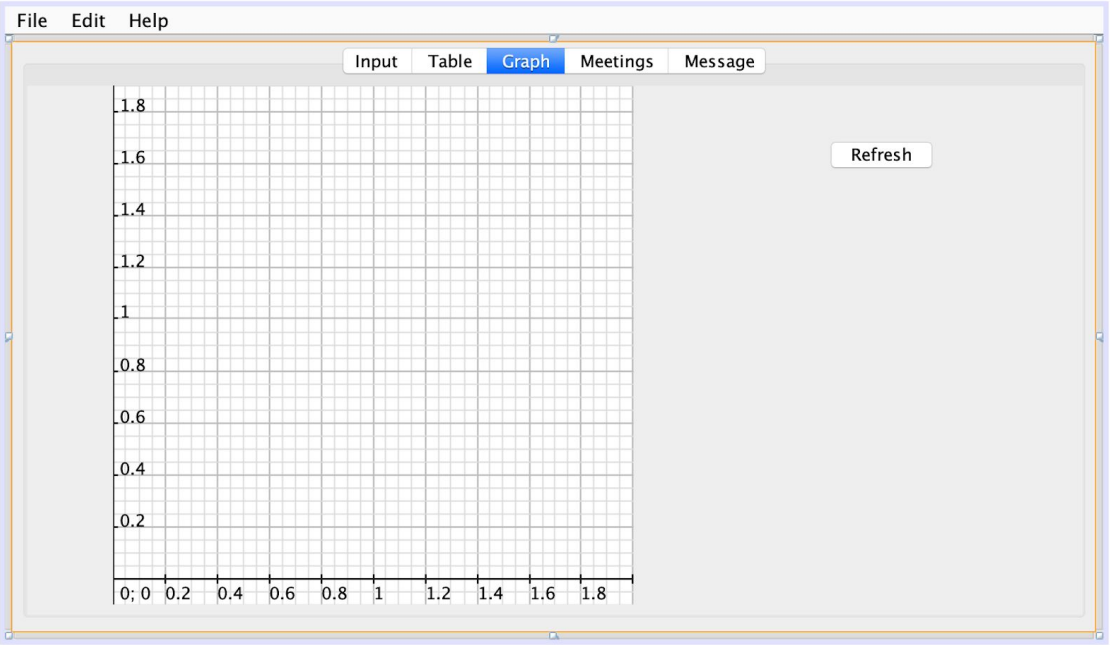
Searched Email Result

Copy to Clipboard

Example Text: Hello, (name), this is an automated message, it is said that we are going to meet on (closest deadline), to talk about (subject). See you soon!

Copy to Clipboard

Cool!



File Edit Help

Input Table Graph Meetings Message

Name of Student

Designated Meeting Time

Replace Current Time Replace?

Replaced Time

I'm Done

File Edit Help

Input Table Graph Meetings Message

Name of Student Search

Copy to Clipboard

Searched Email Result

Copy to Clipboard

Example Text: Hello, (name), this is an automated message, it is said that we are going to meet on (closest deadline), to talk about (subject). See you soon!

Copy to Clipboard

Chronological Development Plan:

1. Interview Client - Create GUI(3-4 days)
 - a. First Interview
 - i. Input pane for student input
 - ii. A table pane for table of students
 - iii. Graph pane
 - iv. Time schedule pane
 - v. Quick message pane
 - b. Second Interview
 - i. Receive Comments, change accordingly
2. Template Classes (1 day)
3. Sorting classes(1 day)
4. Criterion "P"(2-3 days)
 - a. Input tab, storing "student" class
 - i. Name
 - ii. Age
 - iii. Gender
 - iv. Subject
 - v. Grade
 - vi. Email
 - b. 2nd tab, Sorting Table
 - i. By
 1. Name
 2. Age
 3. Gender
 4. Subject
 5. Grade
 6. Email
 - c. "hardest" tab, graph tab, connect with student class
 - i. User end
 1. Axis control
 2. Scale control
 3. Number control
 4. Type control
 5. Refresh table
 - d. Meeting tab
 - i. Calendar option
 - ii. Save and/or replace time schedule
 - e. Message tab
 - i. Fixed quick message
5. Integrate students class with table(3-4 days)
6. Integrate table with graph (4-5 days)

7. Testing plan(1 day)
 - a. Fix bugs
 - b. User-end warnings
8. Final interview(1 day)
 - a. Instruct client
 - b. Feedback
 - c. Improve & wrap up

Testing Plan

Input	Normal	Border	Abnormal	Extreme
Student Name	Jacob Lyu	Short names No name (warning)	Number Other language characters Profanity	30+ character
Student Age	21	No input 0-40(warning and give border)	Not an int	Negative numbers
Gender	One of 3 options	None Chosen(warning)	Wrong data type	N/A
Subject	One of the many options	Empty(warning)	Wrong data type	N/A
Grade	3.6	0/ Empty(warning)	Not an int nor a double	Over 5000
Student Email	awjdaowfnla@g mail.com	Empty Has to have a @(warning and give border)	No @ Other characters	N/A
Replace Time	Yes/No	empty (warning)	Wrong data type	N/A
Replaced Time: Month	10	Empty 1-12 (warning and give border)	Not an int	N/A
Replaced Time: Day	24	Empty When 1,3,5,7,8,10,12 31 When 2 28 When 4,6,9,11 30 (warning and give border)	Not an int Not within border	N/A
Replaced Time: Hour	23	Empty $0 \leq x \leq 24$ (warning and give border)	Not an int Not within border	N/A
Replaced Time: Minutes	59	$0 < x < 60$ (warning and give border)	Not an int Not within border	N/A
Quick Text	I'll be late.	Empty (warning)	Other language characters	Profanity