Criterion A - Planning

Problem Statement

Mrs. Namatinia has trouble organizing the copious information she works with as an

independent Bollywood teacher.

Word Count: 16

Description of Scenario

My client is a Bollywood dance teacher, choreographer, instructor, and performer.[1] She

teaches both in real life in a dance studio and online through Zoom.[2] Due to this, she needs

an all-in-one database in order to help her manage her job information such as her students

names, emails, and location as well as other more complex information such as her songs,

and dance formations.

Word Count: 64

Rationale of Proposed Product

Creating a computerised program allows the client to be able to extract data and

information from online sign-up sheets, limiting her manual work, thus saving her

precious time.[3]

Having this as a stand alone program enforces the organization of information by

saving it all in one neat place.[4]

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[1]Irit Namatinia, interview by author, Bangkok, November 12, 2020, transcript line A1, Appendix **2** IA
[2]Irit Namatinia, interview by author, Bangkok, November 12, 2020, transcript line A3, Appendix **2** IA
[3]Irit Namatinia, interview by author, Bangkok, November 12, 2020, transcript line A13, Appendix **2** IA
[4]Irit Namatinia, interview by author, Bangkok, November 12, 2020, transcript line A13, Appendix **2** IA

Utilizing a GUI on Netbeans, a free program, enables me to make a user-friendly database using their existing features. Thus, my focus can stay primarily on making sure the client has everything she needs to manage her information. Moreover, Netbeans being an IDE (integrated development environment) means I have a code editor, compiler, and debugger all-in-one, enhancing my productivity as a developer. Java is my chosen language because it is the only programming language I am fluent in.

More specifically, in connection with the debugger, I am more comfortable finding, understanding and troubleshooting errors in Java. Obviously, Java is also an object-oriented programming language. So, I may use encapsulation for increased reliability, inheritance for improved organization, and polymorphism for classes to be reused as required, saving time. Lastly, Java Virtual Machine enables platform independence, as it can be installed in any OS, so my client an run this program on her Windows 7 PC.[5]

Word Count: 202

Success Criteria

Having discussed with my client, I have come up with what this program will be able to accomplish if it is successful:

- Input information of new students or songs[6]

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[5]Irit Namatinia, interview by author, Bangkok, November 12, 2020, transcript line A11, Appendix **2** IA
[6]Irit Namatinia, interview by author, Bangkok, November 12, 2020, transcript line R1, Appendix **5** IA

- Retrieve data (emails) from a dynamic online spreadsheet and display it[7]

- Send emails to students, being able to alter the subject, body, and recipients of the email[8]

- Allow the creation of new dance formations, on different dimensions with different number of students[9]

- Save new created dance formation to existing dance formations

- Inputted data will be saved even when the application is closed

- Being able to delete information if it is not relevant or wanted anymore[10]

- Easily access information through a search bar for various elements[11]

- Sorting different elements in an ascending/descinding OR A-Z order[12]

- Have a help menu with usability reminders

- Open up a website with existing dance formations[13]

- Appealing to the human eye, yet simple and features evenly spaced out[14]

Word Count: 0 (Bulleted List)

Summary Initial Prototyping Process

The first edits on the GUI prototype were essential to get a better understanding of the relevant information my client wanted to be stored within the database, the

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[7]Irit Namatinia, interview by author, Bangkok, November 12, 2020, transcript line R5, Appendix **5** IA
[8]Irit Namatinia, interview by author, Bangkok, November 12, 2020, transcript line R5, Appendix **5** IA
[9]Irit Namatinia, interview by author, Bangkok, November 12, 2020, transcript line R6, Appendix **5** IA
[10]Irit Namatinia, interview by author, Bangkok, November 12, 2020, transcript line R1, Appendix **5** IA
[11]Irit Namatinia, interview by author, Bangkok, November 12, 2020, transcript line R1, Appendix **5** IA
[12]Irit Namatinia, interview by author, Bangkok, November 12, 2020, transcript line R1, Appendix **5** IA
[13]Irit Namatinia, interview by author, Bangkok, November 12, 2020, transcript line R6, Appendix **5** IA
[14]Irit Namatinia, interview by author, Bangkok, November 12, 2020, transcript line R4, Appendix **5** IA

intended look and feel of the GUI, and the actions and tasks that can be accomplished. The main changes included:

    1. Moving the inputs of information above the table rather than to the side, allowing wider and more spacious displaying columns.

    2. Adding a sorting and searching option within the first tabbed panel

    3. Creating a more detailed version of the way in which the user will be able to create and access dance formations from the respective tab, as well as extract emails from an online sign-up sheet.

Word Count: 48 (Mostly Bulleted List)

Summary of Prototyping Process:

The first edits on the GUI prototype were essential to get a better understanding of the relevant information my client wanted to be stored within the database, the intended look and feel of the GUI, and the actions and tasks that can be accomplished. The main changes included:

    1. Moving the inputs of the information above the table rather than to the side, allowing wider and more spacious displaying columns.
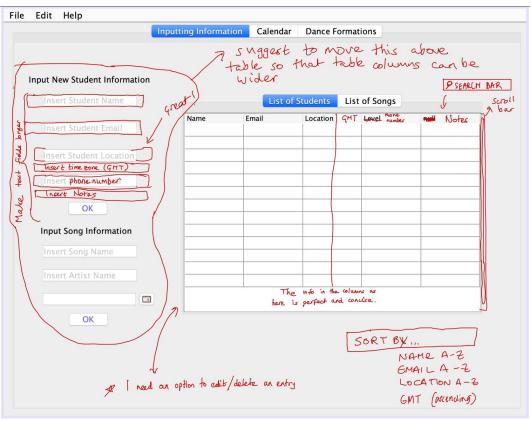
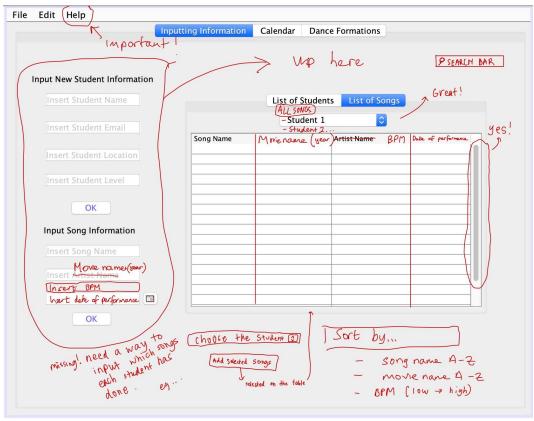   2. Adding a sorting and searching option within the first tabbed panel

    3. Creating a more detailed version of the way in which the user will be able to create and access dance formations from the respective tab, as well as extract emails from an online sign-up sheet.

Annotated Prototype: Appendix 3

Screen 1

File   Edit   Help

Inputting Information | Calendar | Dance Formations

Input New Student Information

Insert Student Name

Insert Student Email

Insert Student Location

Insert time zone (GMT)

Insert phone number

Insert Notes

OK

Input Song Information

Insert Song Name

Insert Artist Name

OK

Great!

Make text fields longer

suggest to move this above table so that table columns can be wider

SEARCH BAR

scroll bar

List of Students | List of Songs

Name	Email	Location	GMT	Level	phone number	email	Notes

The info in the columns as here is perfect and concise.

I need an option to edit/delete an entry

SORT BY...
NAME A-Z
EMAIL A-Z
LOCATION A-Z
GMT (ascending)

Screen 2

File   Edit   Help

Important!

Inputting Information | Calendar | Dance Formations

Input New Student Information

Insert Student Name

Insert Student Email

Insert Student Location

Insert Student Level

OK

Input Song Information

Insert Song Name

Movie name (year)
Insert Artist Name

Insert BPM

Insert date of performance

OK

up here

SEARCH BAR

List of Students | List of Songs

Great!

ALL SONGS
Student 1
Student 2...

yes!

Song Name	Movie name (year)	Artist Name	BPM	Date of performance

missing! need a way to input which songs each student has done. eg...

choose the student [?]
Add selected songs
selected on the table

Sort by...
— song name A-Z
— movie name A-Z
— BPM (low → high)

File   Edit   Help

Inputting Information   **Calendar**   Dance Formations   *emails*

Pick a Date in the Calendar to Start
   Inputting a New Class ---->

| Add Class Name |

| Add Location |

| Choose Song ▾ |

☐ In-Person   *← LOVE THIS!*
☐ Zoom

[~~Enter~~ ok]

- -

| Extract Emails from Sign-Up Sheet |

Email 1
Email 2
Email 3
Email 4
Email 5

Suggest to put this in a whole new tab

Subject, Body Text

[Send Email]

November ▾ ⬍   2020 ⬍

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
45	1	2	3	4	5	6	7
46	8	9	10	11	12	13	14
47	15	16	17	18	19	20	21
48	22	23	24	25	26	27	28
49	29	30					

Add date column

Up-Coming Classes

Class Name	Class Location	Class Song	In-Person/Zoom

File   Edit   Help

Extract emails from sign-up sheet

Email 1
Email 2...

Edit Email Subject

Edit email body text

Choose existing student email

List of students

Name	Email	Location	GMT

Add Highlighted Emails

Sending Email
Password

SEND EMAIL

Inputting Information   Calendar   **Dance Formations**

# of students: 9

# of Students:15

# of student:13

these are
GRIDS!

existing
formations
↑

if # is 0
show all
↑

Choose an Existing Dance Formation

Go to website ←

Number of Students: 0 ⌄

File   Edit   Help

Inputting Information   Calendar   **Dance Formations**

depends on
# of grid boxes
selected
↑

Grid Size

create
~~Choose~~ a New Dance Formation

Save

10 ⌄ x 11 ⌄

Number of Students: [scribble]