Criterion A

Problem Statement

Mrs. Barnes does not have a database program for her students who independently lift weights in the gym and track their fitness.

Word Count: 22

Description of Scenario

My client, Mrs. Barnes, is a high school P.E. teacher who is a mentor to dozens of students who independently lift weights.[1] She needs a database that she can provide her students with and assist them in scheduling and tracking their personal fitness growth.[2] She realized that she doesn't have a database that her students can use to track long term growth and help maximize their potential.[3]

Word Count: 71

Rationale

The reason for writing my code in NetBeans because I am creating a program for people unfamiliar with computer science and technology. Using a graphical user interface that is as user-friendly as possible is a priority for me and NetBeans allows me to do this. NetBeans is a free integrated development environment for Java. Also, Netbeans runs on macs and is what we used in our class. I used Java as my choice of code. Java is object-oriented making it easy to organize and understand. It makes programming more efficient and reliable.

Word Count: 91

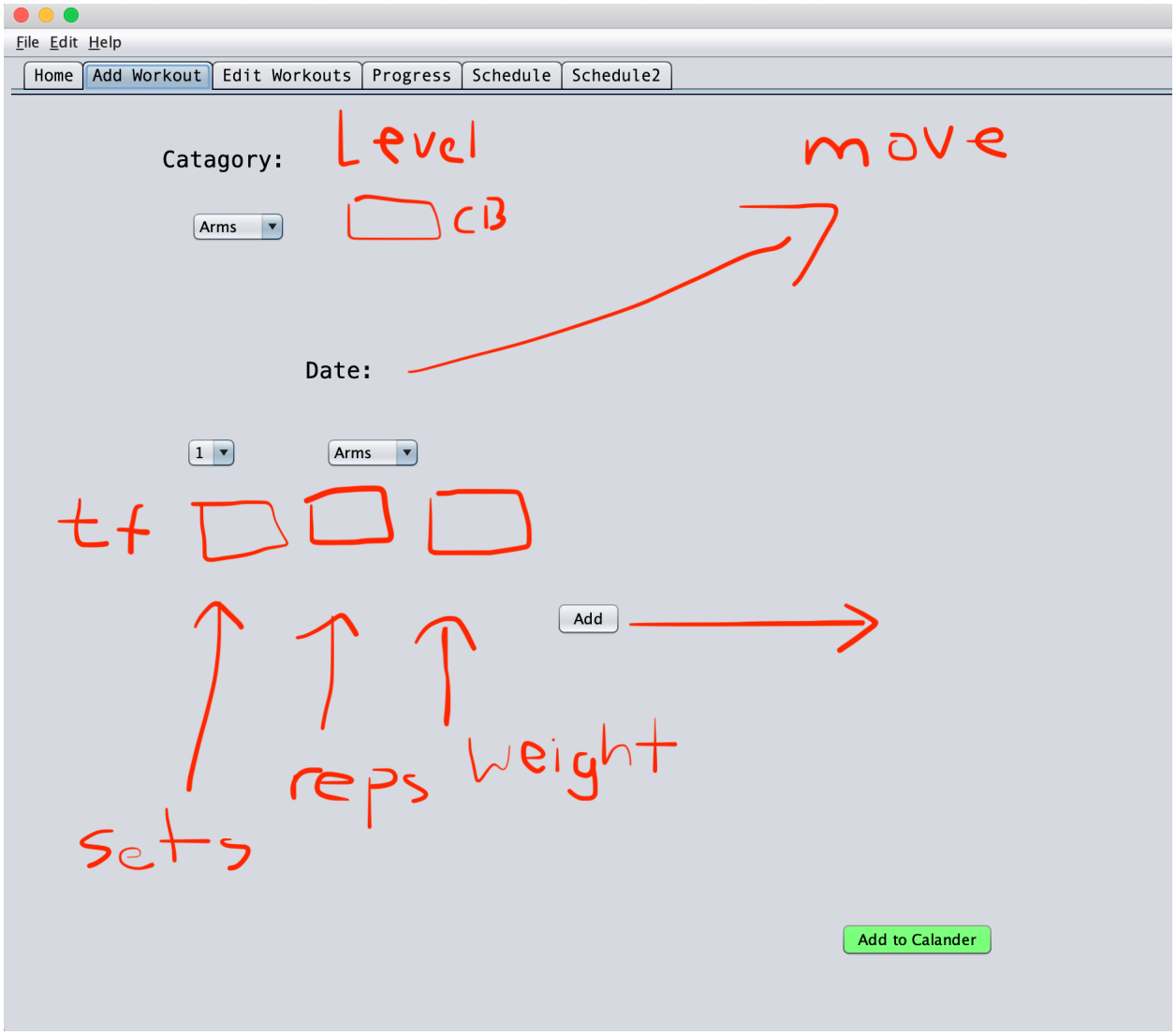
[1] Sarah Barnes, interview by author, Bangkok, November 18, 2020, audio recording 0:26, Appendix 1
[2] Sarah Barnes, interview by author, Bangkok, November 18, 2020, audio recording 3:00 - 3:30, Appendix 1
[3] Sarah Barnes, interview by author, Bangkok, November 18, 2020, audio recording 3:43 - 4:10, Appendix 1

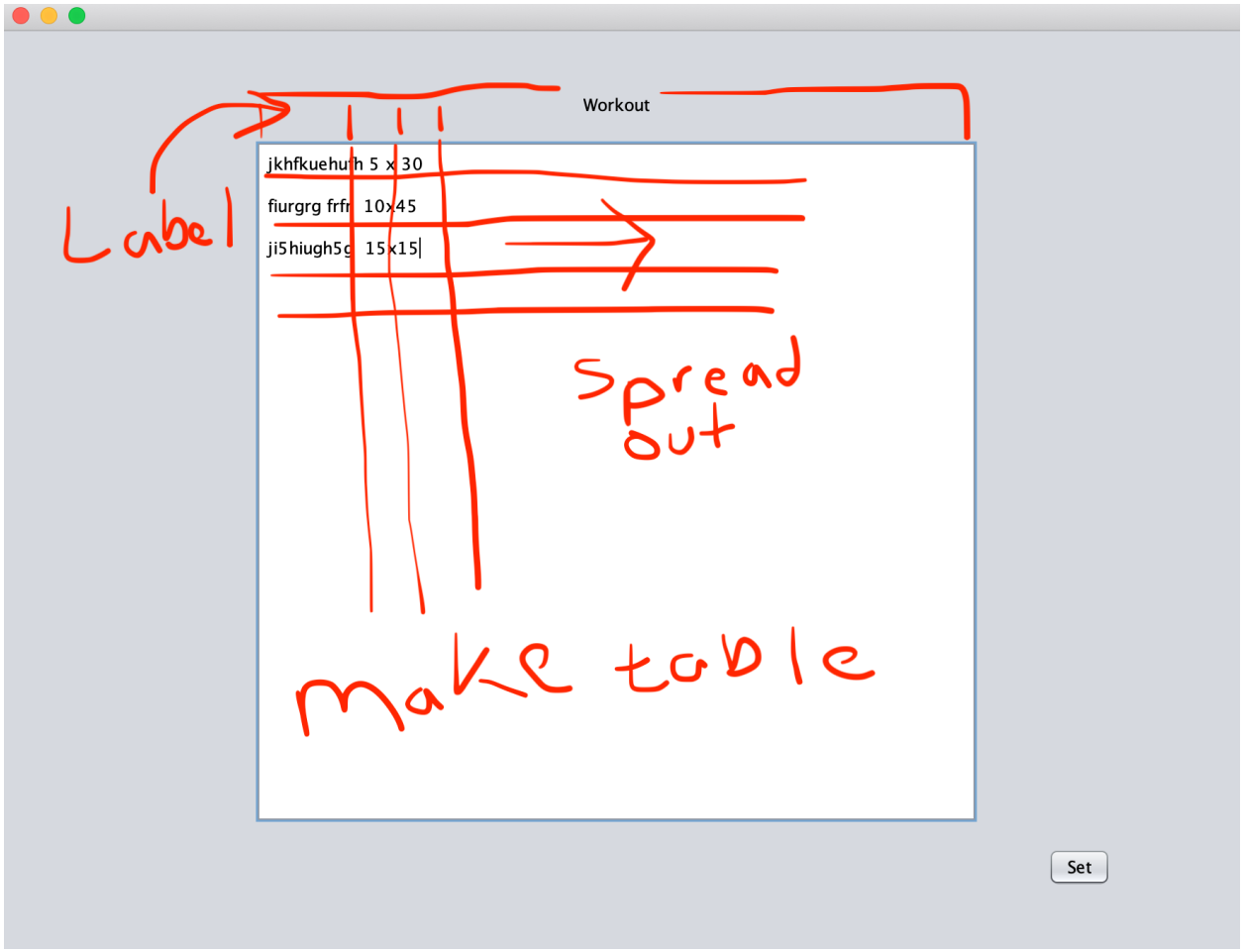
Success Criteria for Product

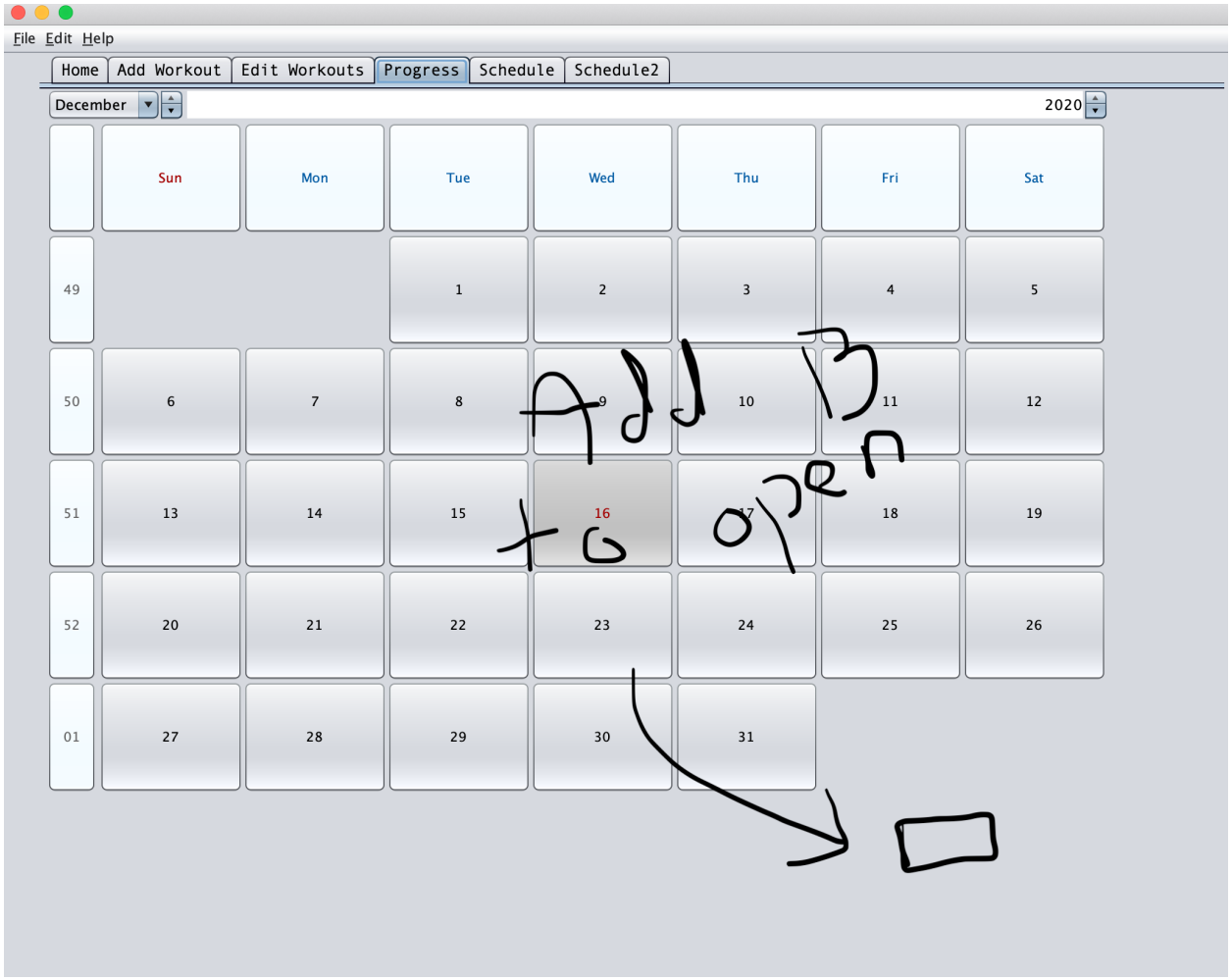
- A database where the past and future workouts are visible.
- Create an effective scheduling program where the user can input workouts. A calendar structure will be effective and user-friendly.
- Allow a feature for the inputting of data from the user's workout.
- Generate a graph or data interpretations of the user's workout patterns and weights. An effective visual will help the user to see their progress and maximize their potential.
- Give numerical feedback to the gym student for measuring their progress.

Appendix 1: Initial Interview

Appendix 2: Annotated Prototype




Workout
jkhfkuehuth 5 x 30
fiurgrg frfr 10x45
ji5hiugh5g 15x15
Label
Spread out
make table
Set


File Edit Help
Home
Add Workout
Edit Workouts
Progress
Schedule
Schedule2
December
2020
Sun
Mon
Tue
Wed
Thu
Fri
Sat
49
1
2
3
4
5
50
6
7
8
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11
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Add
to
open