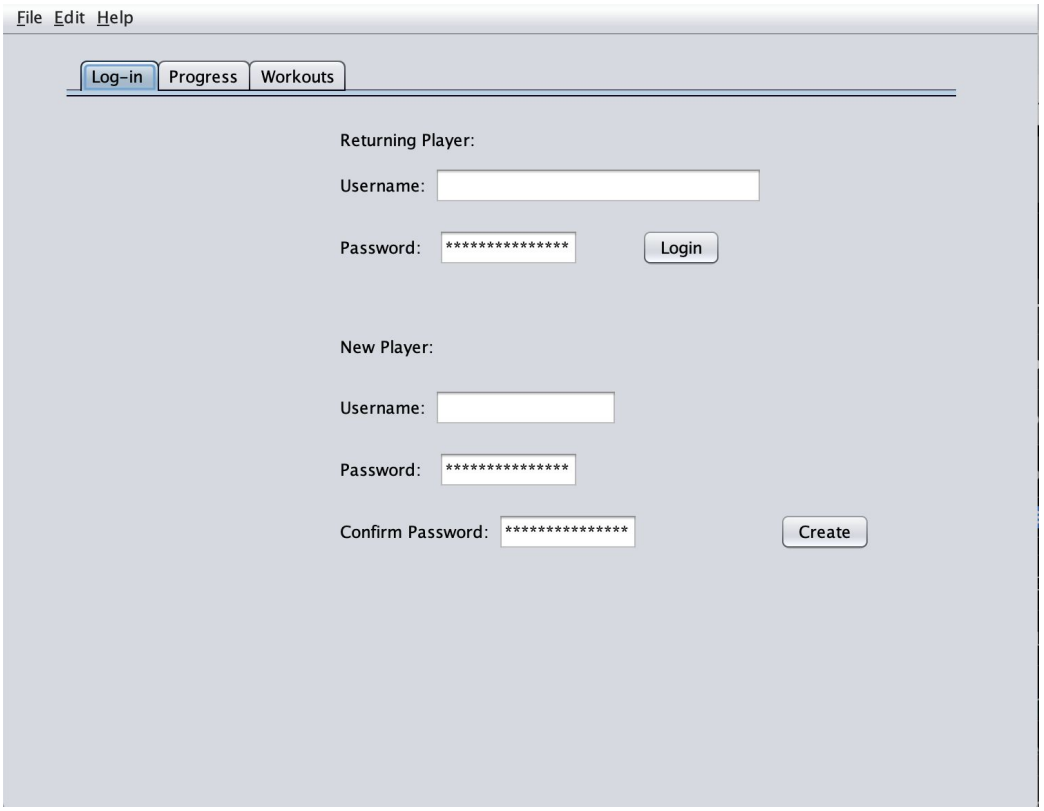
Criterion B: Success Overview

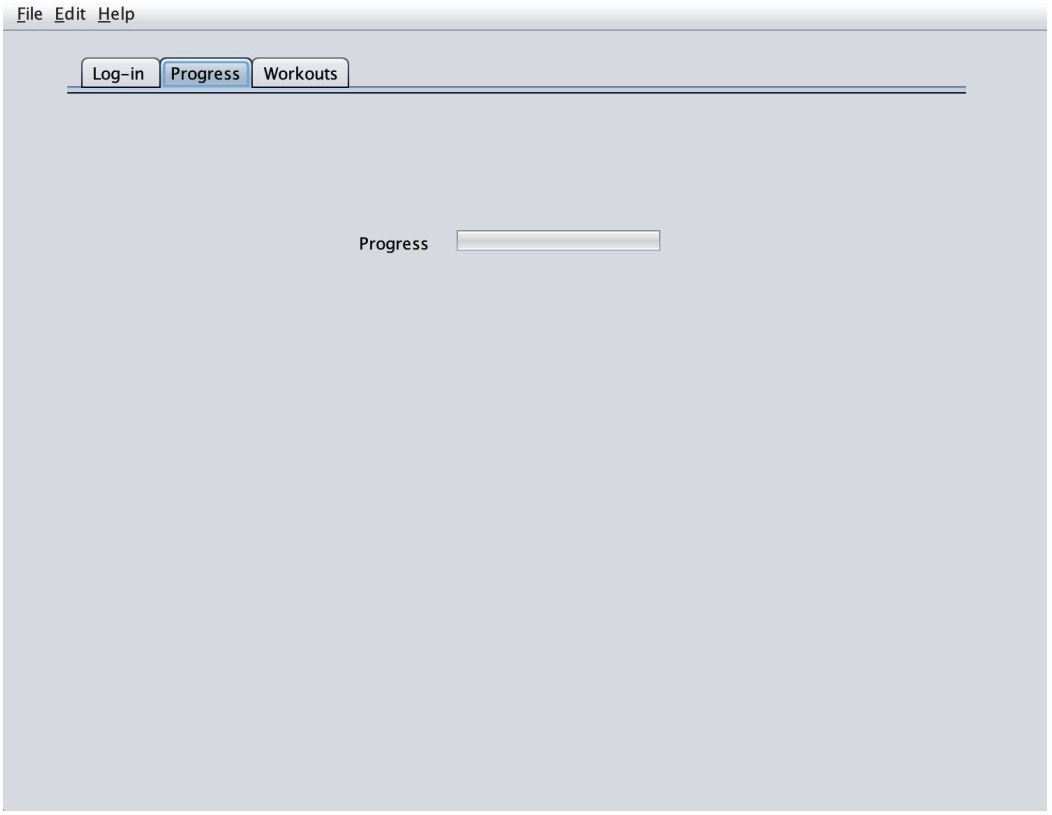
Input and Output

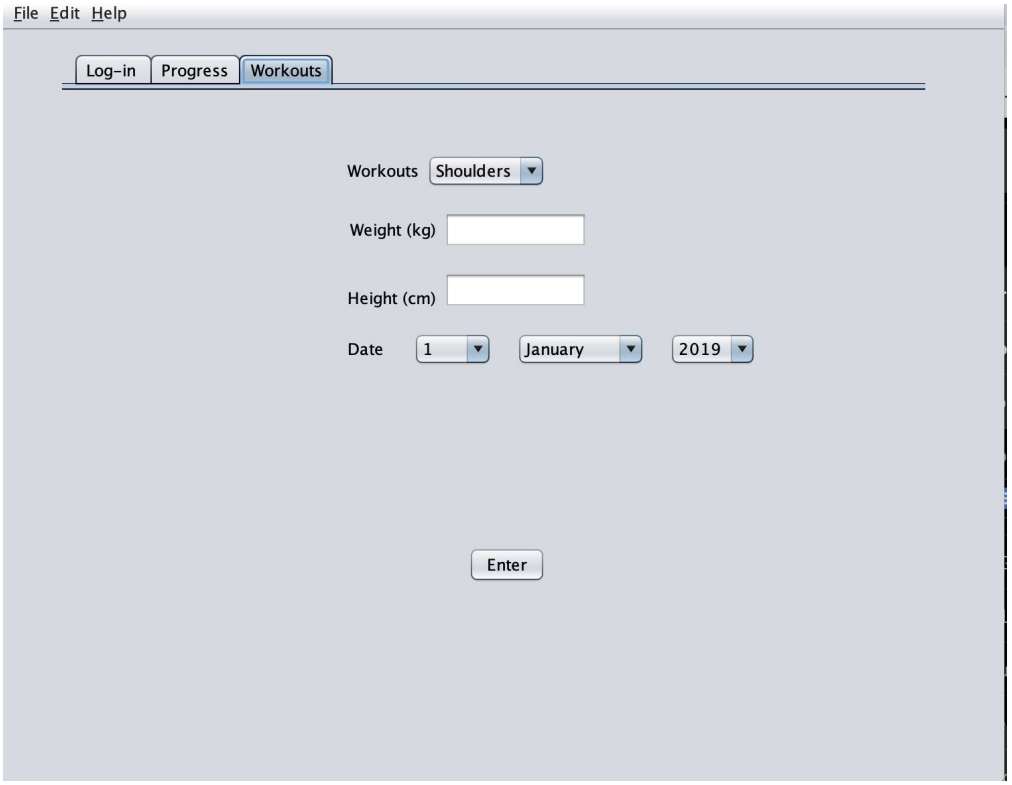
Input	**Data Type**	**Normal Range**	**Example**
Athlete Username	String	N/A	JohnSmith
Athlete Password	String	N/A	JohnSmith123
Type of Weights	String	Shoulders Back Chest Legs Arms	Back
Weights	Double	20-500 pounds	220 pounds
Repetition per Set	Int	1-100	30
Type of Fitness	String	Cardio HIIT Sprints	HIIT
Time for Fitness (Seconds)	Double	Around 1-60,000 seconds	230 seconds
Day	Int	1-31	25
Month	Int	1-12	4
Year	Int	2020 - 2050	2034

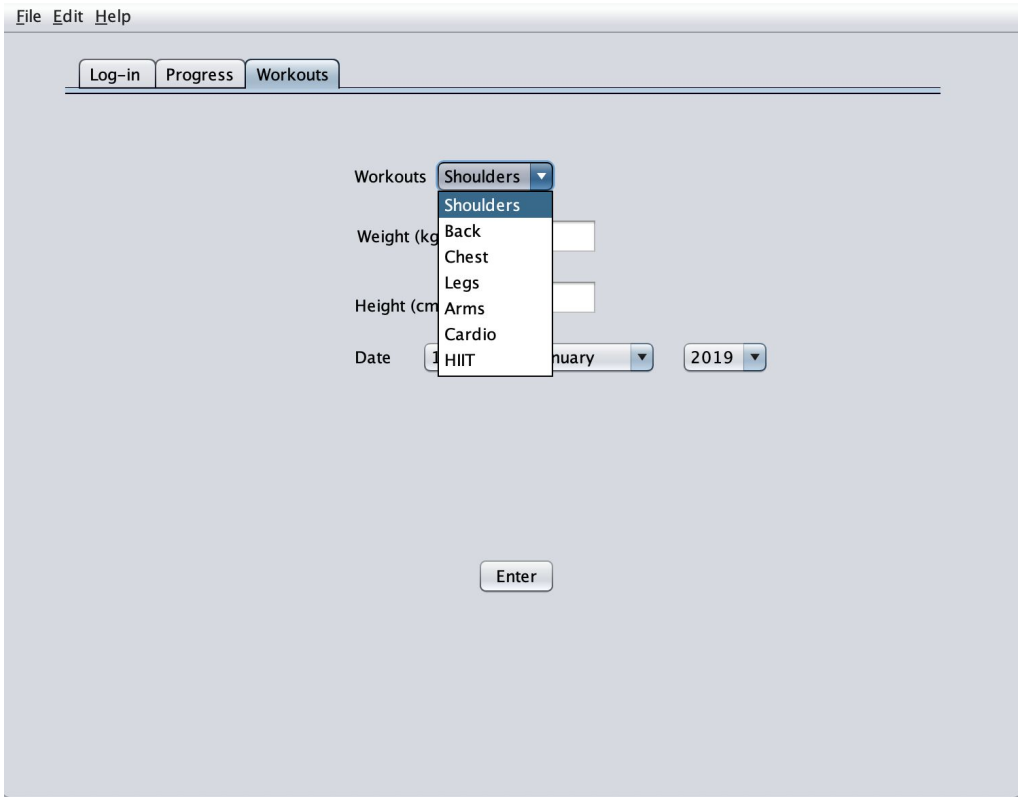
Output	**Data Type**	**Normal Range**	**Example**
Progress	String	N/A	1/11/2020 Shoulder 250 pounds 10 reps 1/12/2020 Shoulder 250 pounds 11 reps
Day	Int	1-31	25
Month	Int	1-12	4
Year	Int	2020 - 2050	2034

Initial Prototype:






File Edit Help
Log-in
Progress
Workouts
Workouts
Shoulders
Weight (kg)
Height (cm)
Date
1
January
2019
Enter


File Edit Help
Log-in
Progress
Workouts
Workouts
Shoulders
Shoulders
Back
Chest
Legs
Arms
Cardio
HIIT
Weight (kg
Height (cm
Date
2019
Enter

Annotated Prototype:

File Edit Help

Log-in | Progress | Workouts

Returning Player:

Username:

Password: **********

Login

more colors

seperate these two

New Player:

Username:

Password: **********

Confirm Password: **********

Create

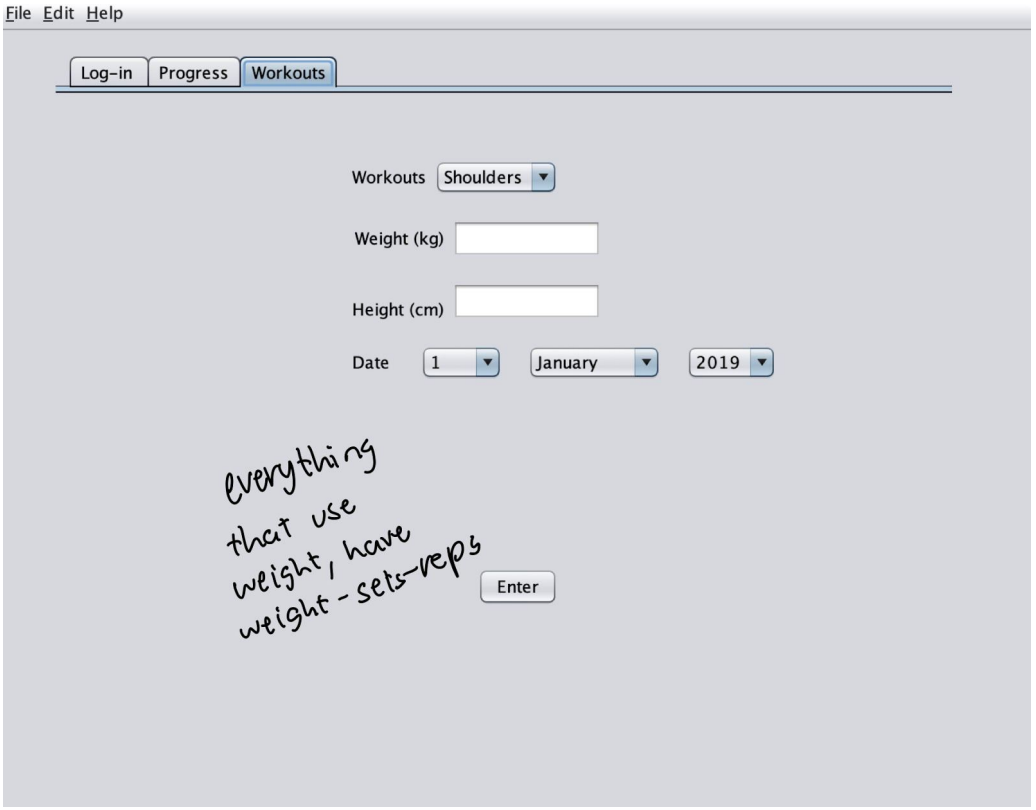
add a new page

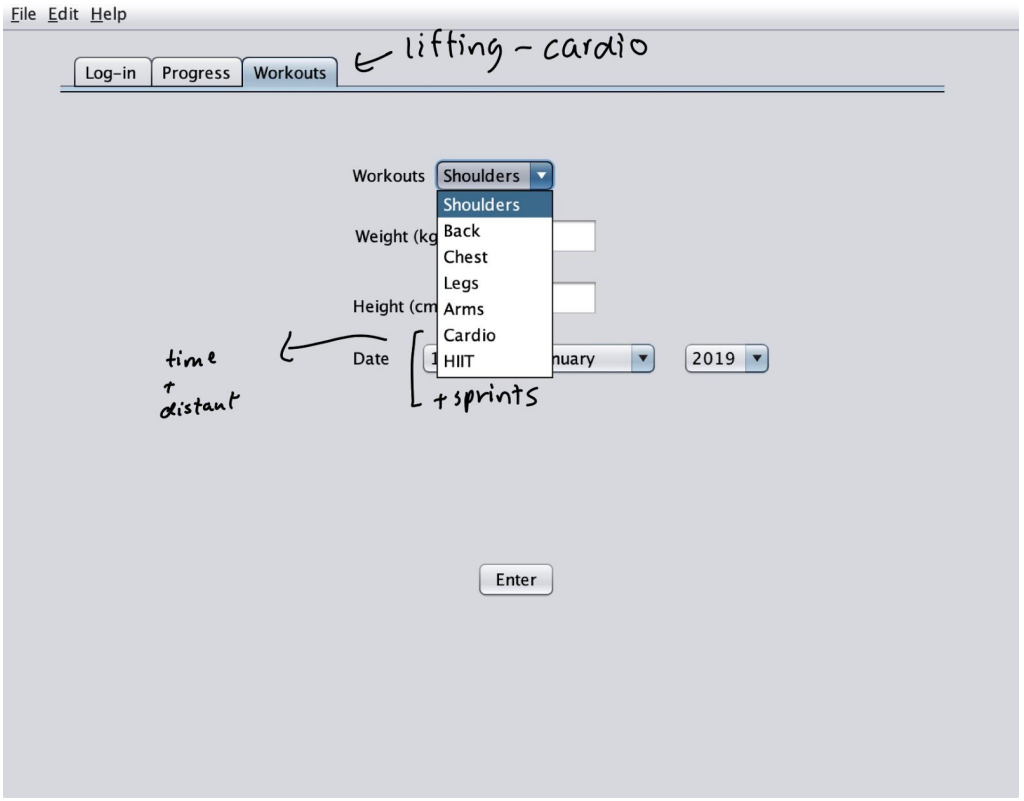
File Edit Help

Log-in | Progress | Workouts

Progress

Put in table
↳ progress for each player
↳ speed
↳ agility
↳ strength

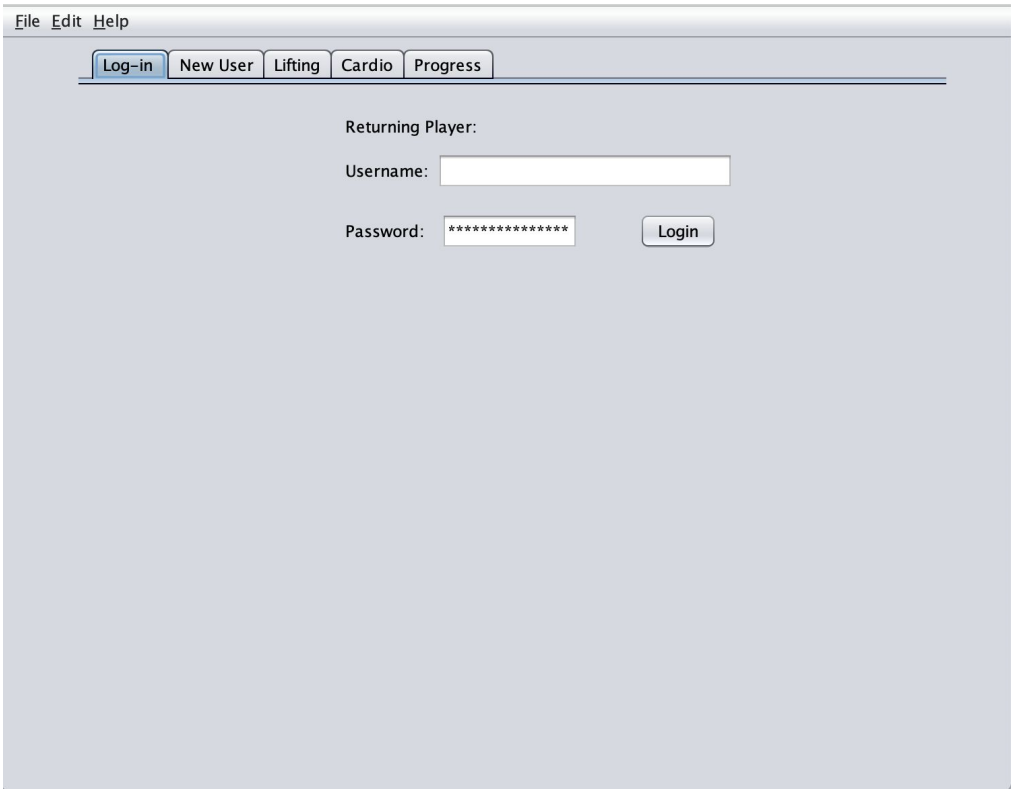


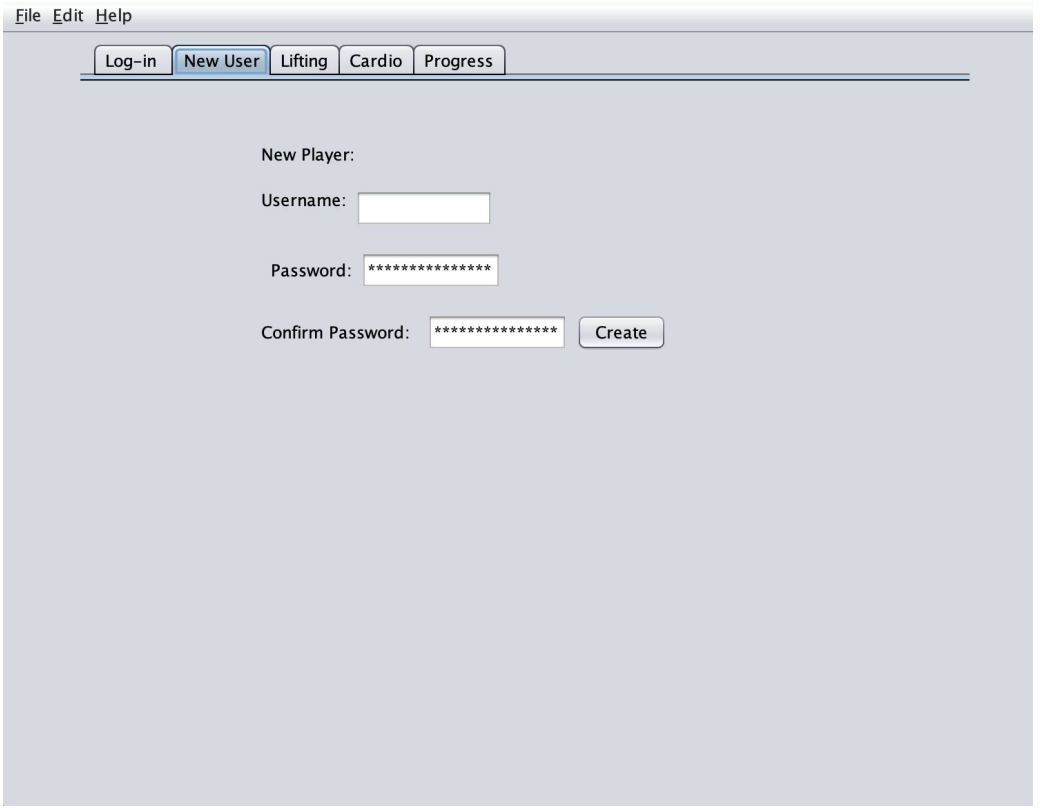


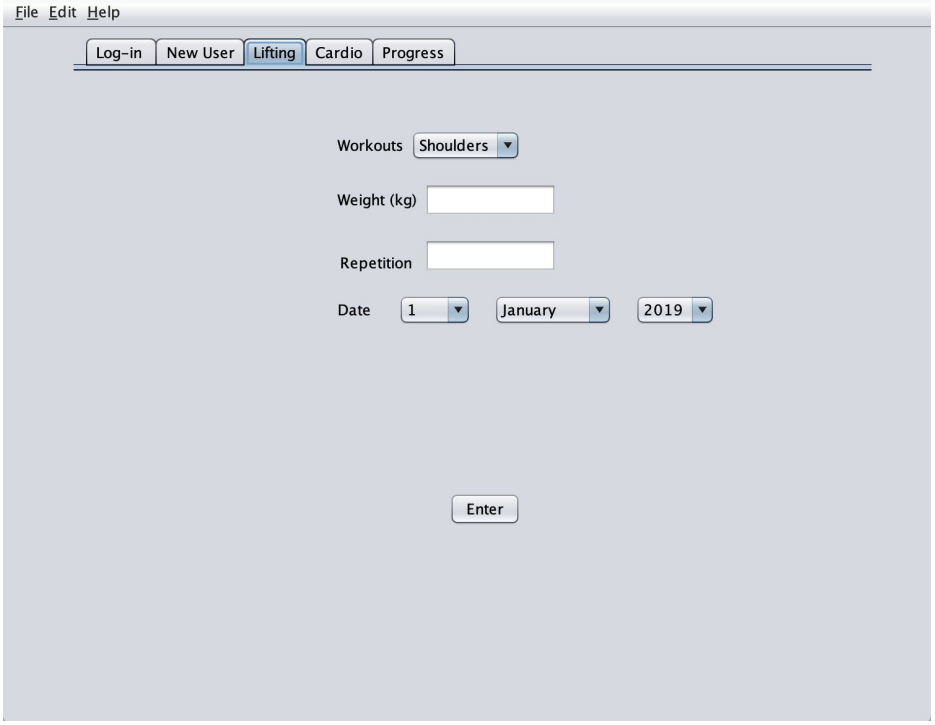
Changes After Interview:

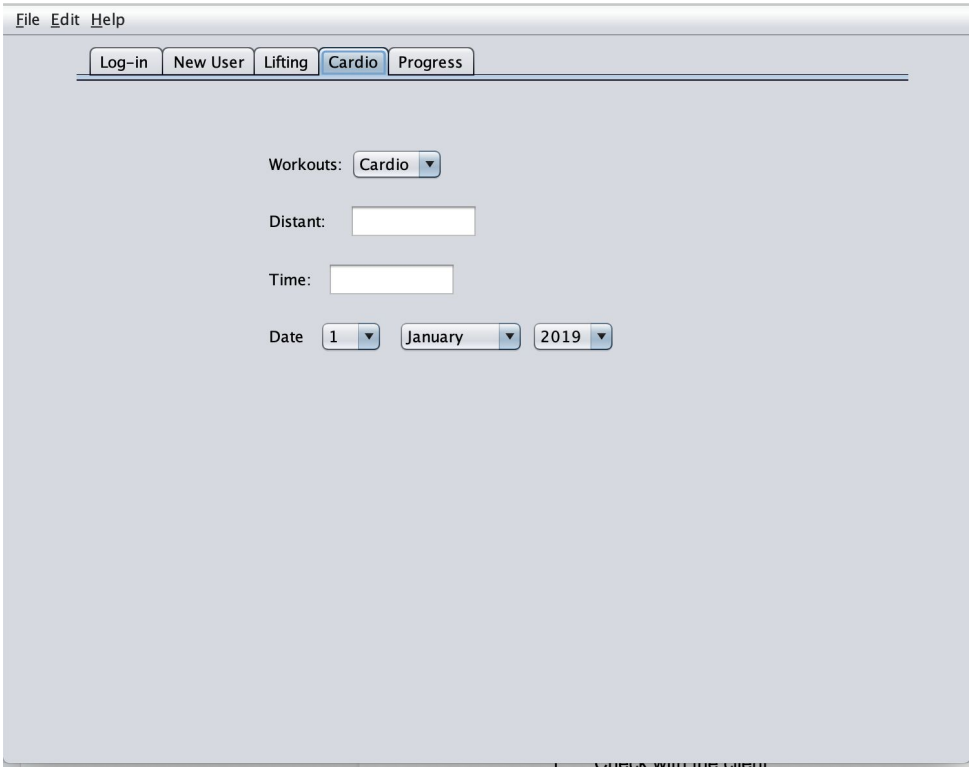
The changes that Wit required wasm to separate the log-in tab into two tabs, which are new players and returning players. For the progress page, he wanted a table to shower the progress for each player, the table would display their speed, agility, and strength. He would also like the workout page to be separated, from just workouts into lifting and cardio.

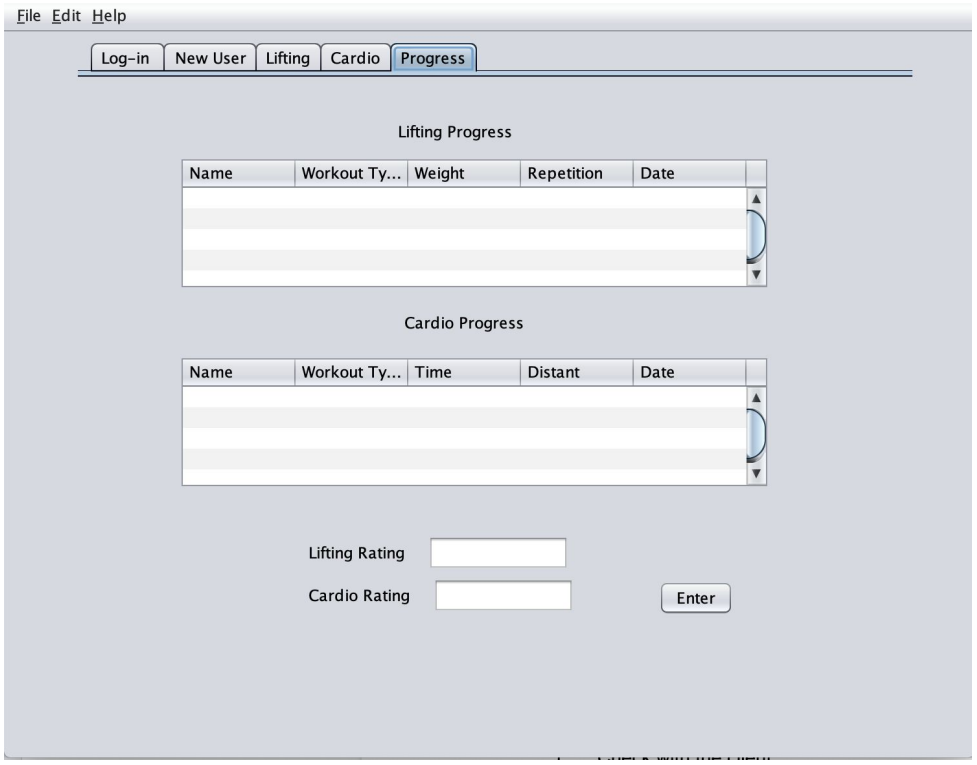
Final Prototype:


File Edit Help
Log-in
New User
Lifting
Cardio
Progress
Returning Player:
Username:
Password:
****
Login


File Edit Help
Log-in
New User
Lifting
Cardio
Progress
New Player:
Username:
Password:
****
Confirm Password:
****
Create


File Edit Help
Log-in
New User
Lifting
Cardio
Progress
Workouts
Shoulders
Weight (kg)
Repetition
Date
1
January
2019
Enter


File Edit Help
Log-in
New User
Lifting
Cardio
Progress
Workouts:
Cardio
Distant:
Time:
Date
1
January
2019



Development Plan

1. Interview with the Client
    a. To see what the client is looking for
        i. Which leads to a brief idea of what to do with the prototype
        ii. Time: Takes about 1 and a half hour
2. Create a prototype
    a. According to the client's need
        i. Check with the client
        ii. Make edits afterward
        iii. Time: Takes about 3 hours
3. Create programming stages
    a. Main class
    b. Subclass
        i. Usernames and Log-in
        ii. Lifting/Cardio
        iii. Sorting and Searching
            1. For athlete progress
        iv. Time: Takes about 10 hours
4. Test out the program
    a. Search for any errors
        i. Fix it
        ii. Time: Take 4 hours
5. Present the client
    a. See if they want any changes
        i. If so then change it
        ii. Time: 30 mins
6. Finish with the final product

Testing Plan:

Input	**Normal**	**Border**	**Abnormal**	**Extreme**
Athlete Username	JohnSmith	No name It would result in not working, however, short name, with a character, would still work.	Numbers Warning message, and not taken in/parse	Very long name 30+ characters No limit on what allowed here.
Weights	220 pounds	No weight would result in a warning, however, 0 would work.	Real numbers Negative numbers Real numbers would work but negative numbers would not	Massive numbers, Ex. 10,000 Warning messages
Repetition per Set	30	1 would work, however 0 would not work and no input would not work	Real numbers Negative numbers Would pop-up as warning error, if these numbers are used.	Massive numbers, Ex. 10,000 Warning messages
Time for Fitness (Seconds)	230 seconds	0 would not work, while the rest would work	Real numbers Negative numbers Real numbers would work but negative numbers would not	100,0000 It would not work work Highest it goes to is 10,000 you

grade