The owner of MC Gym currently has no way of tracking his clientele! He wants a program to keep track of client’s information. With the MC Gym Application, he will be able to add his clients, put in their name, gender, age, weight, height, phone number, and email. Additionally, Clients can search through an exercise database to create a customized workout. They will also be able to update their weight throughout their fitness journey.

MC Gym

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**Project Proposal**

Problem Statement: The gym owner currently has no way of tracking his clientele. He wants a program to keep track of client’s information and fitness goals. The clients will input their name, weight, height, birthday, gender, and goals. Clients will be able to update their progress: current weight and number of calories burned. The owner will be able to access the number of times each client has visited. ~~The app will notify him each hundredth time a client has worked out~~. The client will be able to access a progress report whenever they like.

We will both be responsible for all parts of the project and will split the work 50-50.

|  |  |
| --- | --- |
| **Expected Task** | **Time expectancy** |
| Create flowchart to plan code | 3 days |
| Create pseudocode | 4 days |
| Create app theme | 3 days |
| Create the GUI | 1 week |
| Write code for data input and storage | 1 month |
| Link the information to the cloud | 1 week |

**Project Update 3/29:**

**Target Audience:** Gym Owner(s) - This app is for a specific gym owner, but it can be adopted by other fitness industries.

**Tools/Technologies:** We are using C# and using Visual Studio to create the GUI.

**System Architecture/Implementation:** This loosely depicts what the app will look like. This is without color or any graphic design.

**Graphical user interface

Description automatically generated**

**Overall Design / Core features:** This application does the following: Adds Client (All information described in project proposal), Add Workout (The user can enter their workout each session to their file), Update Progress (User is able view All workouts and Total Workout Time / Calories burned), and “View Clients” (Gym owner search view all clients and their information).

The “core feature” is that this application stores information online so the gym owner does not have to file paperwork for each individual client.

**C#/Cloud Computing:** Once lesson regarding cloud computing is taught, we will implement Cloud computing into our project

**Overall Update:** We will use the fitness tracker as a template. We will be altering this project to meet the needs of the final project. We will use the basic formatting of this project, but will update the aesthetic. The colors/font/view will be altered to be more user friendly, and more appealing to the public.

**Graphical user interface, text, application

Description automatically generated**

**Project Update 4/26:**

**New layout vision:**

Diagram

Description automatically generated

-When/if a user hits the “Existing Customers” button, a new form will populate.

Diagram

Description automatically generated with medium confidence

-Here the user will search for their record by their name

**There will be a home / back button**

Diagram

Description automatically generated

The user will then have the option to simply view their fitness profile, or update it with progress. **There will be a home / back button**

Graphical user interface

Description automatically generated

Here the user will be able to update their current weight, current body fat %, and pick from a drop down how often they work out [1-2 times a week] [3-4 times a week] [4-5 times a week] or [6+ times a week] **There will be a “Enter date” field and a home / back / submit button**

Graphical user interface, application

Description automatically generated

If the user clicks “View fitness record”, they will see their total weight gain, or loss, their total body fat percent gain or loss, and the output box will show all their updates to the record.

Chart, bar chart

Description automatically generated

If the user is a new customer, then they would fill out the following form to start their profile. **It will also have “Enter your birthday field” and “Email” field.**

Table

Description automatically generated with low confidence

If the “Management” button is pressed, a new form will populate and a password will be entered, since the information they will be accessing is private

A picture containing diagram

Description automatically generated

If they are granted access, then a form will populate where they can search for customers. Their files will appear, and they can view all data, and make edits if necessary.

Possible Design:

Graphical user interface

Description automatically generated

Work remaining:

Incorporate cloud computing

**Evaluation Strategy:**

* What are the characteristics of users that you would invite to evaluate this system?
  + We would invite users to evaluate the design, efficiency, and usability of our app. We would want them test how easy the system is to use without any instructions given, the app should explain itself.
* Graphical user interface, text

  Description automatically generated with medium confidenceWhat kind of tasks will you ask them to perform?
  + They would be asked to add themselves into the database, search for themselves in View Clients, update their weight, and create their own workout. This would test to make sure each part of our app is working properly. The most important part is the Add New Client.
* What metrics will you use to evaluate the success of your system?
  + The main metric used to evaluate the success of the app is the number of clients it can hold. The app is working successfully as long as it can take new clients and view existing clients in a timely matter. The app would need to be updated with new workouts and a better server at time goes on.

**Future Work:**

In the future the app will be fitted with more features such as:

1. A larger server
   1. A larger server will allow the owner to be able to have more clients!
2. Enter more exercises
   1. A larger variation of exercises will cater to more clients
3. Send customized workout to their mobile device
   1. Being able to send workouts to clients’ phones will provide better accessibility
4. Allow management to change information through the application
   1. Management will may need to change information if it is inputted improperly.
5. Allow clients to change their phone number, email, and last name
   1. Clients may need to change their information if it is inputted improperly, this will be password protected.
6. Allow management to remove clients
   1. If clients decide to stop coming to the gym, the owner will be able to clear up the server.