

StrengthHub **Website** Software Design Document

Matt Fink

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Software Design Document

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1. INTRODUCTION

1.1 Purpose

This design document will provide insight to how the StrengthHub website, (www.strengthhub.net), currently functions and how it is designed.

1.2 Scope

The scope of the website was to allow the user to gain whatever information they may need to know about StrengthHub and what services are provided by the company. The website also needed to include a signup and log in function as well as the ability to create custom workouts for the premium users. Lastly, the website should have statistical data for the user to observe.

1.3 Resources

For this project codecademy was used for the basic knowledge of HTML and CSS that was used for the structure and design of the website.

2. SYSTEM OVERVIEW

The website has three components that must be understood. The website is hosted by Amazon Web Services (AWS). As of the time that this document has been created. The website is being hosted by AWS's static hosting service that goes by the name of S3. This is where all of the code is being stored along with images that are being used for the homepage.

The second component is Parse. Parse is a service that allows for back end processes such as databases and functions that have already been created and can implemented for any app or website that may be using Parse. For the scope of Strengthhub's goals, Parse has been used as a database to store workouts and custom workouts for the premium users. Parse has also provided the User class that allows for log in and signup functions. No SQL is required for any of the database services that they provide.

The final component is the website itself. The website at this moment contains several pages with links to the other pages. There is the homepage, about, signup, login, and a custom page where the users can design their own workout programs. As stated above the signup and login functions are provided by Parse, however, every HTML document must have a specific line of code so that the webpages can connect to the database/function on Parse.

Also the website has three different languages that must be known, javascript, HTML, and CSS. HTML for the structure, CSS for the style and format, and javascript for the functionality.

3. SYSTEM ARCHITECTURE

3.1 Architectural Design and Description

The website contains five different pages, the home page, which is index.html, an about page, sign up, log in, and a page for custom workouts. Each of these pages need to have a script at the bottom that allows for Parse to be accessed. That code is:

```
Parse.initialize("vZ3BXF5bedh4sjHbcDliiZhhpS5kzmPQ4mB4dmDS",  
"roWkG50OcgQcAGxVgl4UG3qE92DHM4dwlaIbb2Sd");
```

Without this line of code, there would be several functions that would not work.

The formatting of the current code goes like this. Each page has an identical “nav” container or div class. Within this class is how the Users will navigate to the other pages. From there on the code will differ from page to page except for certain functions located at the bottom of the page within the script section. These include checkLogin() and certain log in and signup functions are fairly similar to each other.

I will do a breakdown of each webpage in a later section.

3.2 Design Rationale

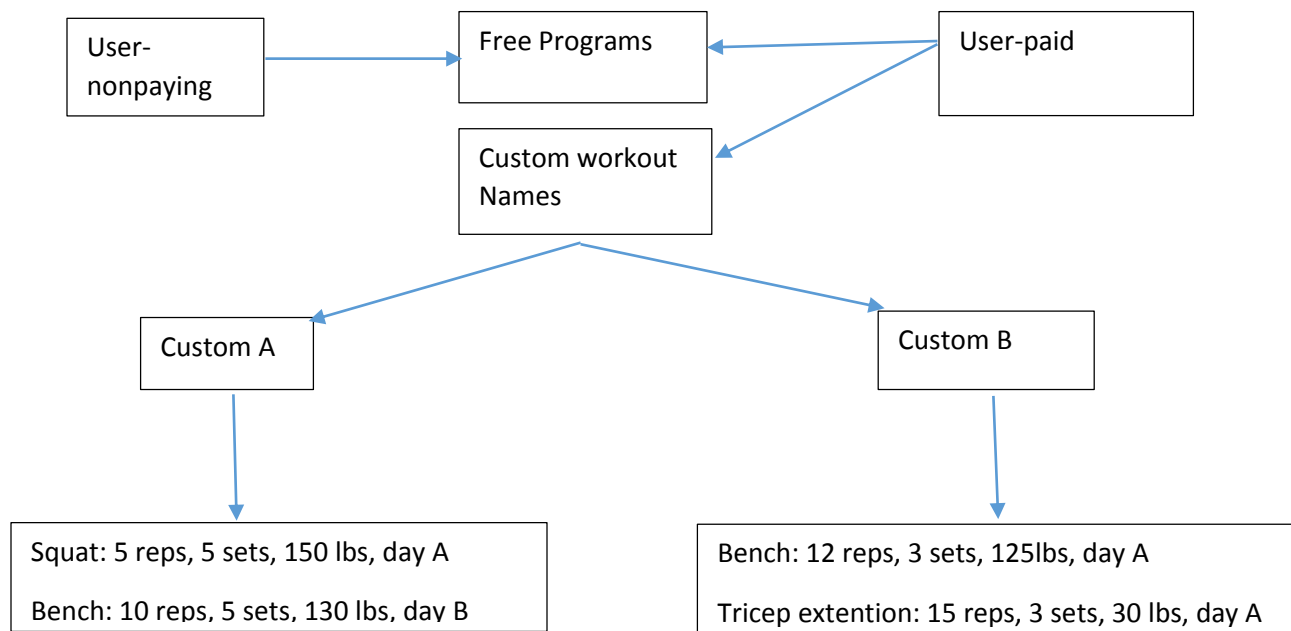
The HTML code is fairly simple and unfortunately there wasn't much else that I could have done differently to change the design of the website at my current skill level. The current website is a skeletal structure that can be built upon to further improve upon the design and functionality of the code.

4. DATA DESIGN

4.1 Data Description

The data is currently being stored in Parse. As of right now, the Parse website is successfully containing user names, emails and passwords of new users who use the sign up page. Parse contains functions that allow the use of their User class. All data is visible from Parse except for the passwords of the users. If ever there is a leak of information regarding the user's password, then it will be Parse's responsibility, since they provided the encryption.

Each user will also contain several relationships to other databases that will be unique to for every user. The first will be a generic set of programs that everyone will be able to access. These will contain workouts similar to 5x5 that will be offered to nonpaying clients. The other data base will be a set of custom workouts that the paid user has created. Each user program will link to a list of exercises, each with a rep count, set count, weight, and workout day. The diagram below may help elaborate.



Each custom name will have its own set of exercises that make up the program that the user has created:

5. Website DESIGN

Index.html (main page)

As stated in section 3.1, each webpage contains a “div class = ‘nav’” this line of code is meant to contain all the code for the navigational tool bar at the top of each page. This is handy and is referenced in the CSS file for format and styling. It is sectioned off as

```
/*-----Navigation Toolbar -----*/
```

In the CSS file if any changes need to be made to the toolbar. The tool bar on the main page is also able to add a name of the current user logged in and a button for the user to log out if he or she chooses.

Next is the jumbotron section which is the main picture on the front page. This contains a header, sub text, and a link. However, at this time the link does not function and is more of a place holder.

Below the jumbotron is the “neighborhood-guides” this name was taken from a tutorial that never actually was changed to what StrengthHub uses this section for now. This section contains pictures and a learn more section. I recommend that the pictures in this section get swapped out for pictures that are all the same size. The pictures in this section now have varying sizes which in turn distorts the formatting.

Lastly there is a wrapper that encompasses all of the other sections for the main page. This is mainly for the footer that is at the bottom of the page that gives credit to John Kim for his photos.

About.html

Currently this page is left blank but also contains the nav toolbar.

Login.html

A user must give his or her user name and password to log in. At this time there is no notification if the user has logged on except if the user goes to the main page afterward. The user could check the console log for errors but this poor design.

Signup.html

This is very similar to the login page except that it has the added field where the user can input their email. Parse will check if it is a valid email address before it allows a new user to be created.

Custom.html

This is the last page. The idea is that a user will create a name for their workout and then be able to add rows from a push of a button. The fields created will have the name of an exercise, reps, sets, weight and what workout day it will fall on. Currently there is an error with this page. Everytime a row is created, a counter is incremented and the newly created row and its fields (rep, set, name, etc) will be given that number as an identifier. Once the user is done adding exercises to the custom workout, the user can press submit where each row is sent to Parse to be added to their custom workout database.

Once again this page does not currently work but the plan is sound, However, the implementation is lacking.

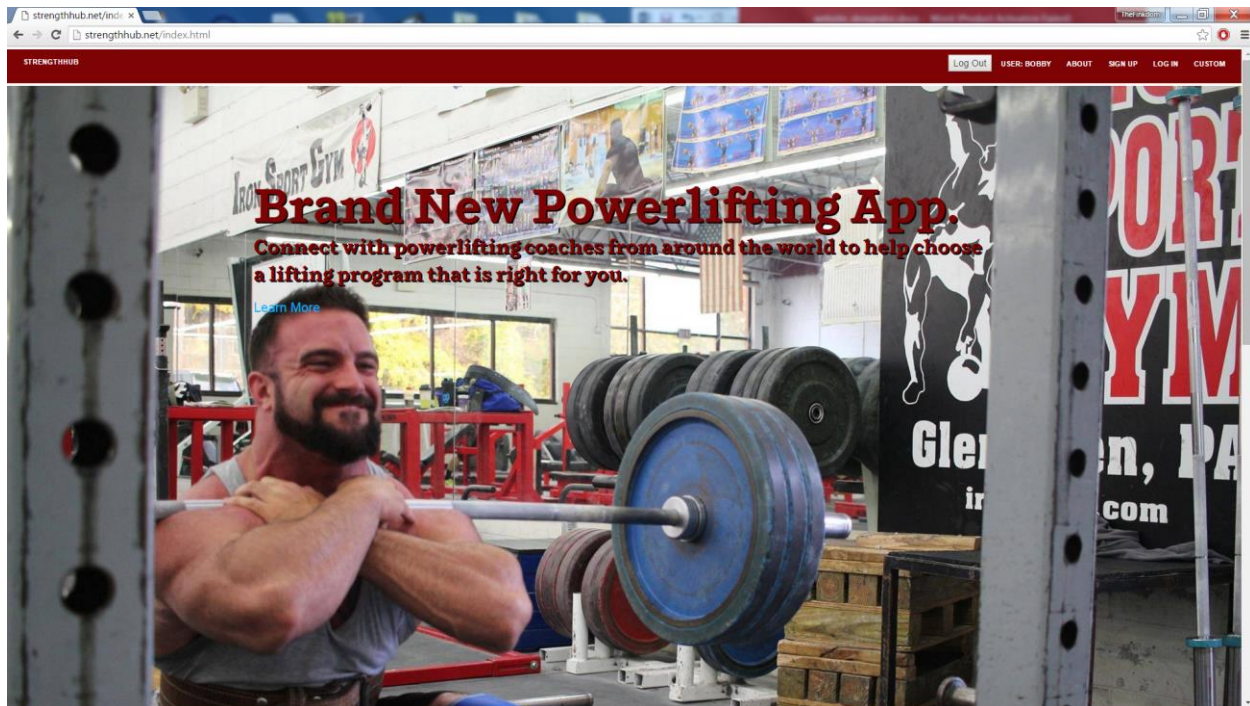
6. HUMAN INTERFACE DESIGN

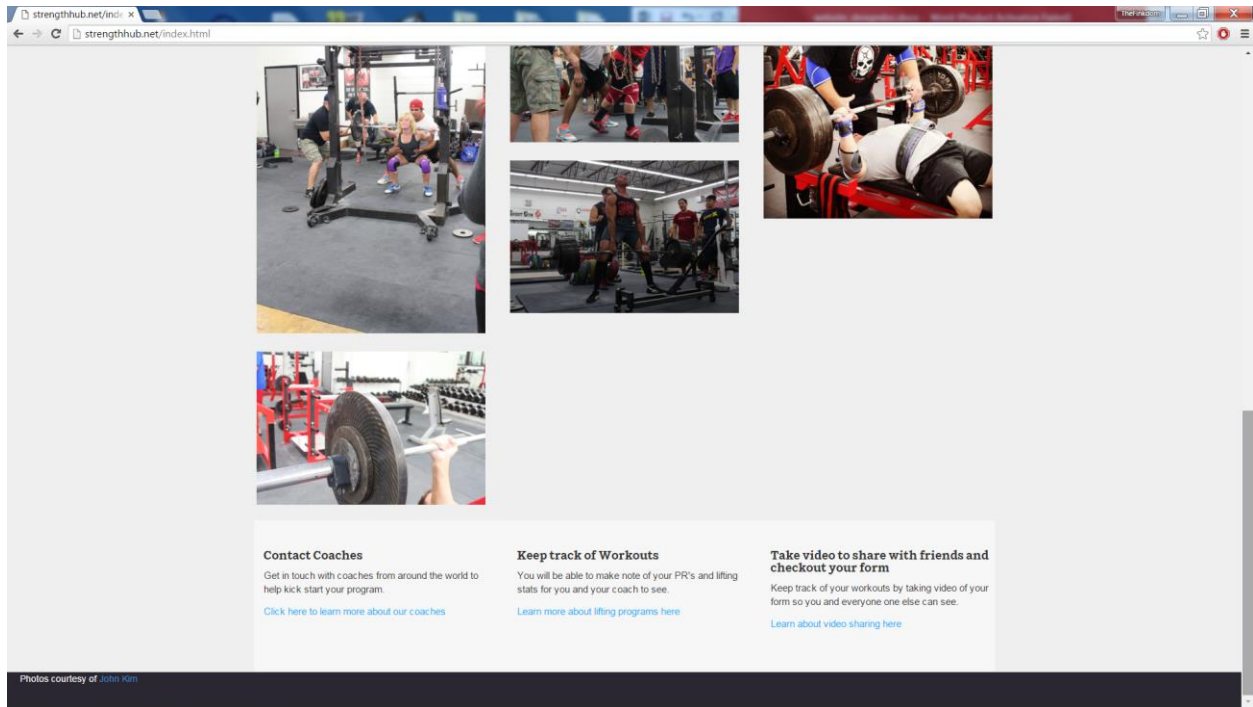
6.1 Overview of User Interface

When the user first goes to the StrengthHub website, they will see the navigation bar, which is in red to draw the eye, and the picture below with text that gives a sentence about the powerlifting application. As the user scrolls down the page they will see a “what we can do for you” section with pictures of power lifters. Below that are links that will eventually lead to more info about how users can contact coaches and other services that StrengthHub’s apps provide.

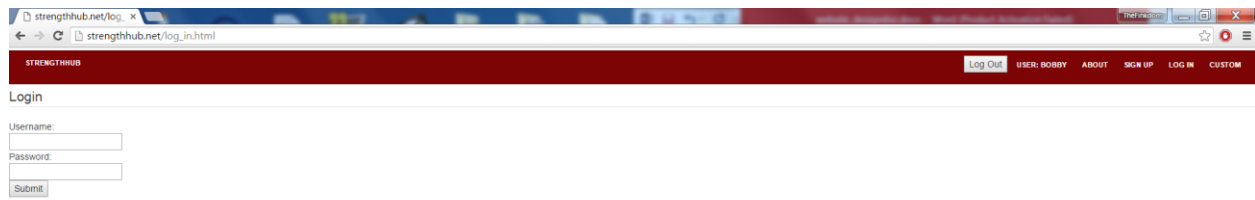
Navigating should be fairly simple as the toolbar at the top will be one of the first things that will be seen. Every page can be reached from the toolbar no matter what page the user is on.

6.2 Screen Images





The screenshot shows the sign-up page of strengthhub.net. The browser's address bar displays 'strengthhub.net/sign_up.html'. The page has a dark red header with the 'STRENGTHHUB' logo on the left and a navigation menu on the right containing 'Log Out', 'USER: BOBBY', 'ABOUT', 'SIGN UP', 'LOG IN', and 'CUSTOM'. Below the header, the page is titled 'Sign Up'. There are two radio buttons for gender selection: 'Male' and 'Female'. Below these are four input fields labeled 'Username:', 'Password:', and 'Email:'. At the bottom of the form is a 'Submit' button.



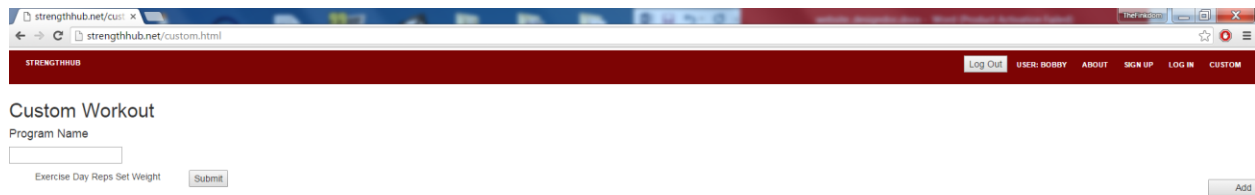
A screenshot of a web browser displaying the StrengthHub login page. The browser's address bar shows the URL 'strengthhub.net/login.html'. The page has a dark red header with the 'STRENGTHHUB' logo on the left and a navigation menu on the right containing 'Log Out', 'USER: BOBBY', 'ABOUT', 'SIGN UP', 'LOG IN', and 'CUSTOM'. Below the header, the page title is 'Login'. There are two input fields: 'Username:' and 'Password:'. Below these fields is a 'Submit' button.

STRENGTHHUB Log Out USER: BOBBY ABOUT SIGN UP LOG IN CUSTOM

Login

Username:

Password:



A screenshot of a web browser displaying the StrengthHub custom workout page. The browser's address bar shows the URL 'strengthhub.net/custom.html'. The page has a dark red header with the 'STRENGTHHUB' logo on the left and a navigation menu on the right containing 'Log Out', 'USER: BOBBY', 'ABOUT', 'SIGN UP', 'LOG IN', and 'CUSTOM'. Below the header, the page title is 'Custom Workout'. There is a 'Program Name' label followed by an input field. Below this, there is a table with columns 'Exercise', 'Day', 'Reps', 'Set', and 'Weight'. The first row of the table is empty. To the right of the table is an 'Add' button.

STRENGTHHUB Log Out USER: BOBBY ABOUT SIGN UP LOG IN CUSTOM

Custom Workout

Program Name

Exercise	Day	Reps	Set	Weight