

3. Functional Requirements

3.1 Stake Holders

- Athletes
- Professional Sports Leagues
- Dietitians and Nutritionists
- Fitness Trainers
- Medical Practitioners
- Medical Device Companies (Johnson & Johnson)

3.2 Actors and Goals

Client - Typical user, pays to become a registered legal user of the software.

Client - To input goal(s) into the Database and upload data from Device. **(UC-1)**

Client - To access Database and view their own fitness data. **(UC-2)**

Client - To login to their own account. **(UC-4)**

Client - To share their progress with friends and family. **(UC-8)**

Administrator - User who has top priority when accessing the user database and is granted special permissions in order to provide professional or technical services. **(UC-5, UC-6)**

Administrator - To add/delete accounts from Database or restrict client access. **(UC-7)**

Visitor - An unregistered user who is allowed to view and use the software on a trial basis.

Database - Stores all user login information as well as client data.

Health Monitoring Device - Tracks fitness and health information of a user and adds the data to the Database.

3.3 Use Cases

3.3.1 Descriptions

UC - 1: Record Input Data and Monitor Performance (Derived from REQ -1)

- Client is able to record health data such as calorie intake and dietary information.
- Fitness data from wearable device can be uploaded and stored in database along with user's imputed health data.

UC - 2: Accessing Stored Data (Derived from REQ - 2)

- Client is able to retrieve previously stored data and view data in an easily readable and well organized display allowing user to easily spot trends and patterns in their own health/fitness.

UC - 3: Analysis of Data (Derived from REQ - 3)

- Client can have data analyzed by programmed algorithms to provide pertinent health and fitness information and display such information in easily readable forms such as graphs, charts and tables

UC - 4: User Login-Info (Derived from REQ - 4,5,6)

- Client is able to login and edit preference setting and account information such as username, email address, password and other payment information.

UC - 5: Data Access for Administrators (Health/fitness Professionals) (Derived from REQ - 8)

- An administrator such as a health professional or fitness trainer can access a user's data (when requested by user) in order to provide feedback and expert analysis of the user's information.

UC - 6: Account Access for Administrators (IT professionals) (Derived from REQ-8)

- An administrator such as an IT professional can access a user's account in order to address any technical issues that the user may be experiencing.

UC - 7: Restricting Client Access (Derived from REQ - 9)

- Administrator will be capable of restricting the access of a client to that of a visitor in the case that the client has in some way violated the terms of use agreement or otherwise misused the software

UC - 8: Sharing Fitness Data (Derived from REQ - 1,3)

- Allow a client to share fitness data and generated graphs with friends via social networking sites such as Facebook.

User Interface

Website

①

index.html

Register - into ③

Members login - into ②

②

User Settings

main.php

logout

username

to grants
and data

daily tips

calendar - into ④

click on day to input
data

③

register.php

a Name

b Age

c Weight

d Height

e gender

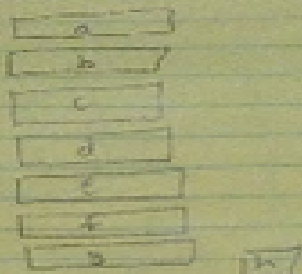
f username

g Password

submit

4
calendar
click

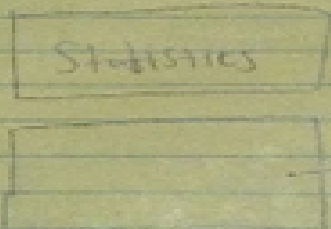
home



- 1 heart rate
- 2 heart pressure
- 3 hours sleep
- 4 hours exercise
- 5 type of exercise
- 6 estimated calorie intake
- 7 weight
- 8 submit

5

home



health information

6

Previous
graphs



Current



Next graphs

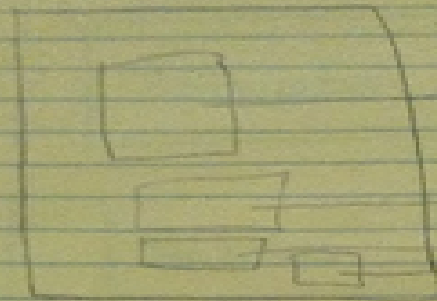
home



Graph

Android App

①



- android app only
- will have a login
- register on website

Logo

User name

password

Submit

②

logo

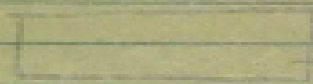


a

b

a username

b logout



video links
of exercises

Exercise Tips

