# **GYM PASS**

# **ACCEPTANCE CRITERAIA**

**Summary:** As a user I would like to be able to check the number of people currently at a gym at any given time. I would like the gym doors to open when I log into the web app and command it to open, and the doors to close and lock when I log out, and command it to close.

**Main Feature Highlights:**

* Tracks number of users at a given gym at any given time.
* Open and close door by logging into the web app and flicking the lock switch on app (Gym owners can register the user).
* 3 or 4 User Interface pages include:
  + Login/Register
  + View Number of people in the gym in the main page, along with open/close doors button on the same page (Landing page if logged in, otherwise re-direct to log-in).
  + Dashboard to view/select gyms
* Open door will just display doors opened for 5 seconds when open door is triggered, then return to its normal state of showing doors closed for this app demonstration (Will use JavaScript so the user can watch timer before the door will close, using a real-time progress bar).
* Users registered by gym owners saved on Firebase

*Optional Features:*

* Gym Admin Page for gym owner to grant permission for registered members to open/close doors with app.
* If the user is standing in the way of the door, the 5 seconds countdown will reset and not start going down until user moves (use button standing in way to enable test).
* Use Deep Lens camera to detect when user is outside door (use web camera for demonstration).
* Mobile App version, which will also have a fingerprint authentication option
* Open door only when within 10m (location data needs to be enabled for this – this way it does not allows need to be turned on).
* Ask Alexa to open/close door: “Alexa, open the door”.
* Currently only built for one gym, will consider expanding to registered gyms.
* Best hours based on

# **MOCK-UP**

LOGIN PAGE

Menu Link

LANDING PAGE

Estimated occupancy time icons

IMAGE OF A GYM GOES HERE

GYMPASS

Fingerprint Icon here  
if optional  
proceeds

Progress bar for timer if optional proceeds

Open  
/close door

# of ppl at selected gym

LOGIN

Password

Email

WELCOME

SIGN IN

Forgot password?  
Not registered? Click here to register

A close up of a logo

Description automatically generated  
GYMPASS

50

DOOR : OPENED/CLOSED

USER REGISTRATION PAGE

SELECT GYM PAGE

JOIN NOW!

CURRENT GYM

Gym Name  
Current Number of Clients:   
Average Estimated Occupancy Times:   
Weights-room: Stretching room:

Address: ………………………………………  
 ………………………………………  
 ………………………………………  
Mobile: ………………………………………  
Email: ………………………………………

First Name

Email

Change Gyms

Select gym (select a gym from dropdown)

REGISTER

Register for another gym

Select gym (select a gym from dropdown)

Modal pops up with terms and conditions, disclaimer to check accept. And email will be sent to the gym owner.

OPTIONAL GYM STAFF ADMIN PAGE  
(FOR ACCEPTING USER REQUESTS)

Hi First Name!

NAVIGATION

IMAGE OF A GYM GOES HERE

GYM NAME

UNLOCK MY GYM

SELECT GYM

DASHBOARD

some logout icon

**Notes about mock-up:**

* Pop-up modal questionnaire will be popped-up after unlocking the door.
* There will be a dark background while you are out of a gym, when you are inside it will light up.
* Have
* The open/close door lock will only have a text box that shows door open or doors closed below in it initially, will later look-into making shape dynamically interchange between an opened lock icon and a closed lock icon as per door status.
* If we implement facial recognition later, we will show door open or door closed based on result of facial recognition scan results of our web camera. Clicking the lock button will activate the facial recognition scanner. (This way is even better so we can prevent misuse of open-door functionality, being < 10m also being a consideration to enable open door.)
* Opacity on current page goes down when nav button is pressed.
* Change Gyms can only select a gym you are registered to.
* For our presentation only change gym drop down list will have drop down items

(we will make 3 registered users, one registered to two sample gyms who will have both gyms available on the drop-down list. One user with only one gym registered, who can see only that one, and one with none, who will have no gyms to select).

* Page refreshes every 10 mins to refresh data
* Website is being developed to suit iPhone 7 as it is currently the most used phone

# **ALGORITHM**

User tries to check the current gym for it’s current number of visitors, opens the home page.  
IF user is not logged in   
 THEN re-direct to login screen.

IF user is logged in  
 THEN send to landing page  
IF User Clicks Enter GYM  
 THEN IsOpenDoorRequested is true, DoorOpened is true  
 DoorCloseTimer starts  
 WHILE DoorCloseTimer is not 0, the DoorCloseTimer ticks down

# **FLOWCHART**

TO DO

# **DATABASE RELATIONSHIP DIAGRAM**