# Running Rhythm

Group 1

# Running Rhythm

Group Members:
- Boris Chu
- Eucharist Kun
- Chris Pulicken

# Running Rhythm

Application Description:

This application is designed to assist people in automatically choosing music based on their activity. The phone's sensors such as the gyroscope and pedometer will be used to determine intensity of activity the person is doing. A lighter activity will play a slower, lighter tempo type song and a harder workout will play faster tempo song. The song database and song choice will be based on the Spotify API.

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Target Audience:

With this app, we are targeting all active individuals

- This app is a dynamic playlist that guides users through warm-up phases, high intensity phases, or cruising phases of a workout
- Eliminates the need to switch songs or playlists in the middle of a run
- Makes workouts more efficient and effective by enabling music to flow smoother without interruption

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Application Functionality:

- Login screen: The login screen will prompt user to login to Spotify via Facebook.
- Settings screen: The settings screen will allow user to change the background color of the app as well as the option to enable night mode (darker display)
- In-app music control: The ability to change Spotify song in the app. Music changes based on activity.
- Music controls: Application will allow for changing music through the lock screen.
- Playlist choice:  Music can be chosen from multiple user playlists in determining which song to play.
- Health data: A collection of health data running when user goes to app that displays steps, heart rate, length of workout etc.

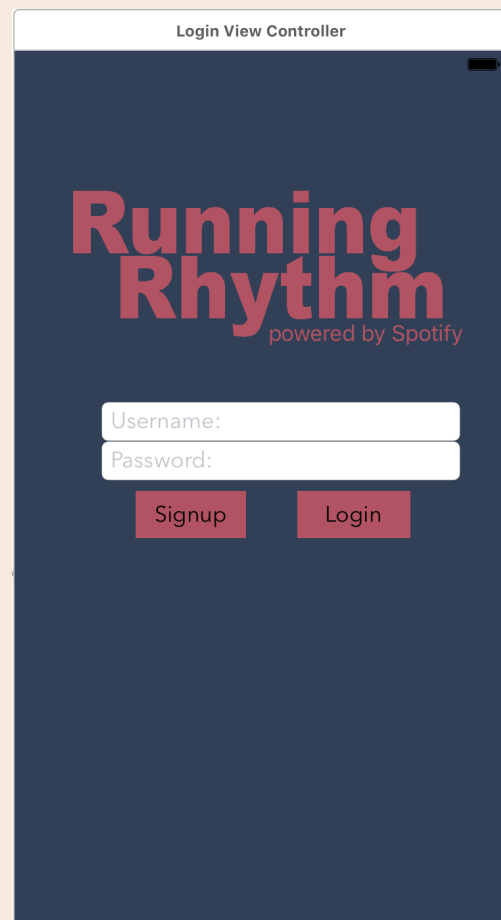# Running Rhythm

Application Challenges Experienced:

- Clicking login when both name and password fields were blank would segue before alert appeared
- Spotify Login functionality and playing music once logged in
- Creating a tableview for the user's playlists and songs followed by playing the song once chosen
- Healthkit UI not available unless you pay for Apple Developer and have a real phone past iPhone 6
- Developing a system that gives songs in a playlist a value based on its tempo or intensity

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Group Member Contributions:

- Boris Chu
  - Spotify API (Login, Music Player, Playlists, Songs)
  - HealthKit Data (Steps, Heartbeat)
- Eucharist Kun
  - Graphic Design, Constraints (Frontend)
  - Timer, Settings Functions
- Chris Pulicken
  - Logo and Graphics (Frontend)
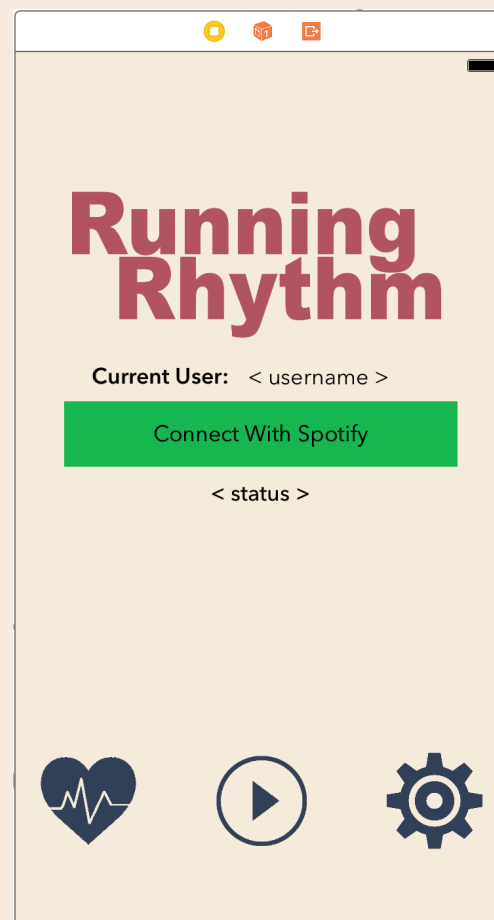  - Settings Screen and Functions

# Running Rhythm

**Login View Controller**

**Running Rhythm**
powered by Spotify

Username:
Password:

Signup    Login

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**Running Rhythm**

Current User:    < username >

Connect With Spotify

< status >

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**Music Player View Controller**

Workout Level

< playlist >

UIImageView

< track title >

< artist >

Start Workout

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**Health Data View Controller**

Health Data

Steps Taken:              0

Heart Rate:               0

Workout Length:        0:00

Start Workout

Pause

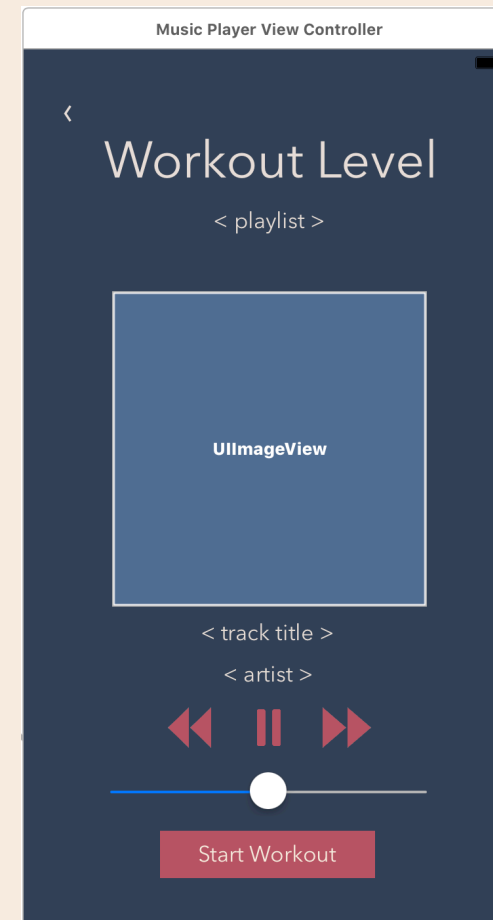End Workout

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Create username and password
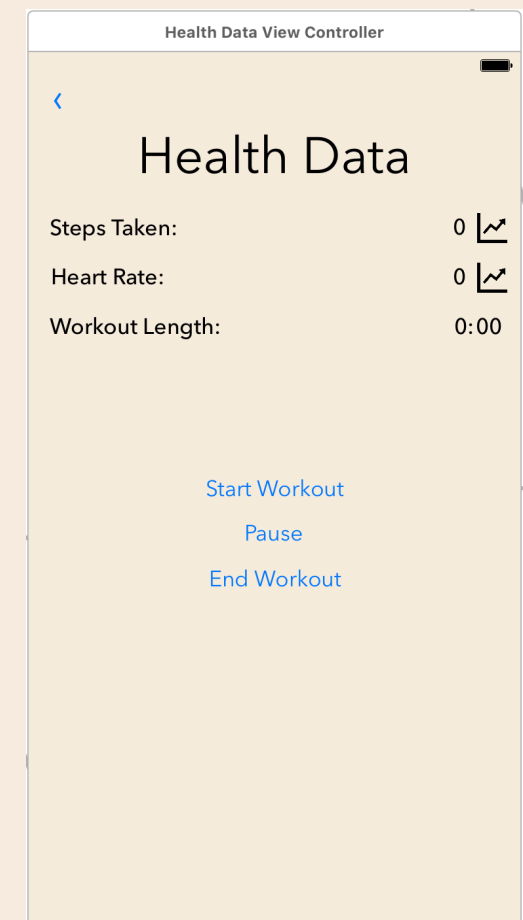
Click Signup

Click Login

Click Connect With Spotify and login with a Premium Account

Click the middle play button to access music and begin workout

Music will be playing already, click Start Workout to begin recording data such as timer, heartbeat, and steps

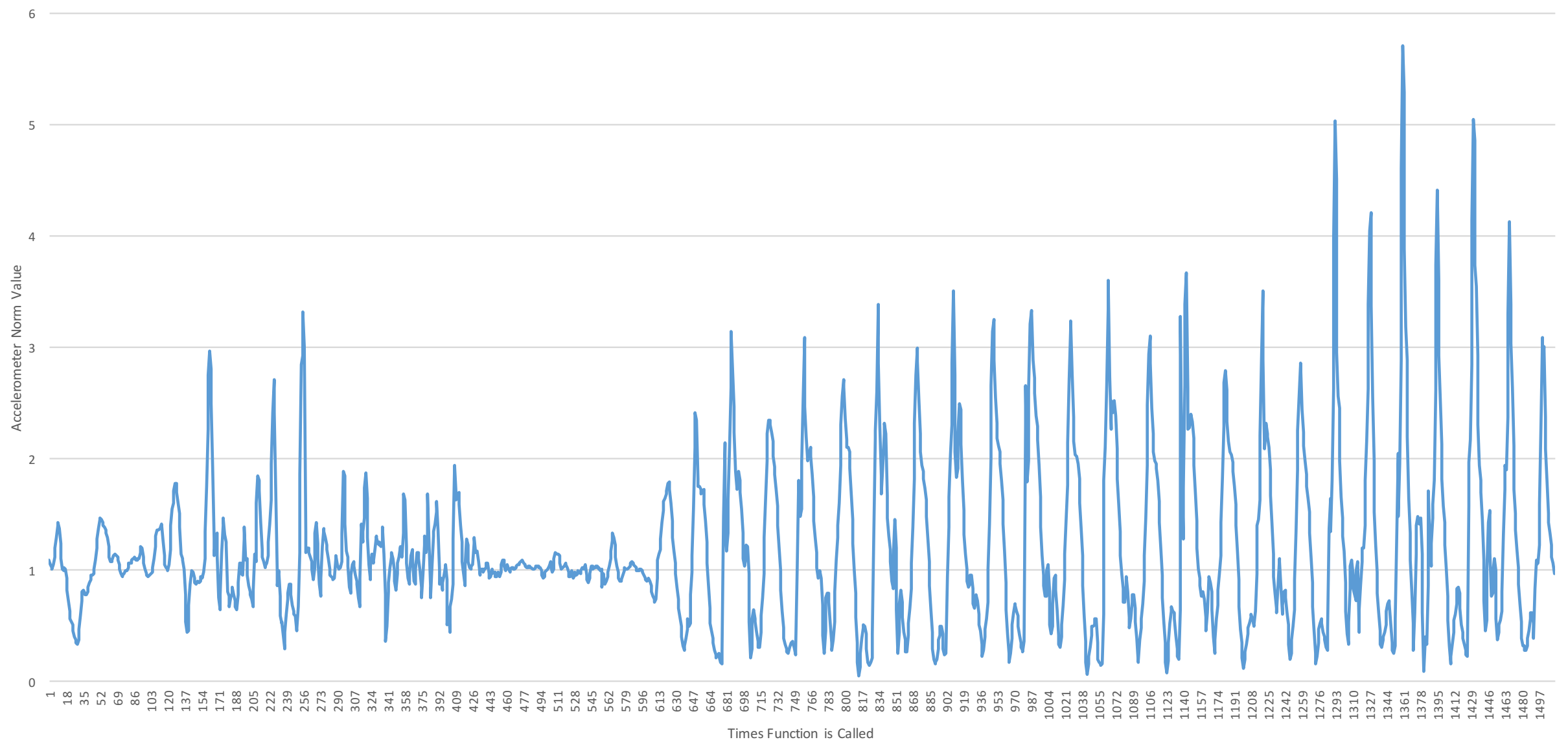Go back to the main page and click the heart button to go to Health Data

Here we can observe our steps, heart rate and workout length

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Demo Time!

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Accelerometer Data over Time

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Questions & Answers