

LifeExtender+

DEMO 2

Group 16

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Overview

Who:

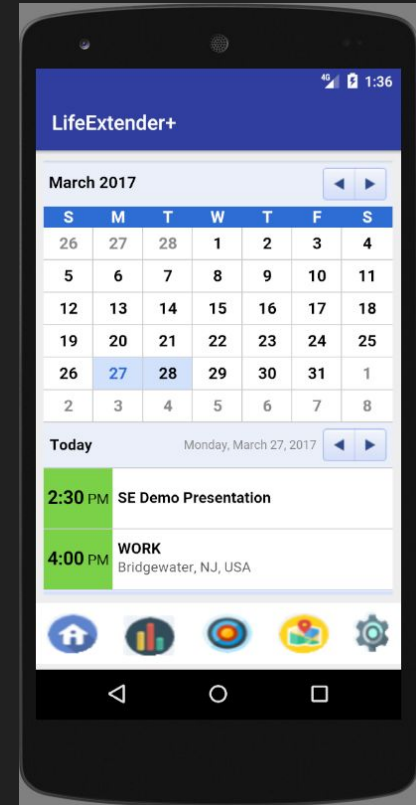
This application targets individuals who need to regularly allocate time for physical fitness on a daily basis.

What:

This application serves multiple functions to optimally manage the user's schedule in order to help regulate their fitness habits.

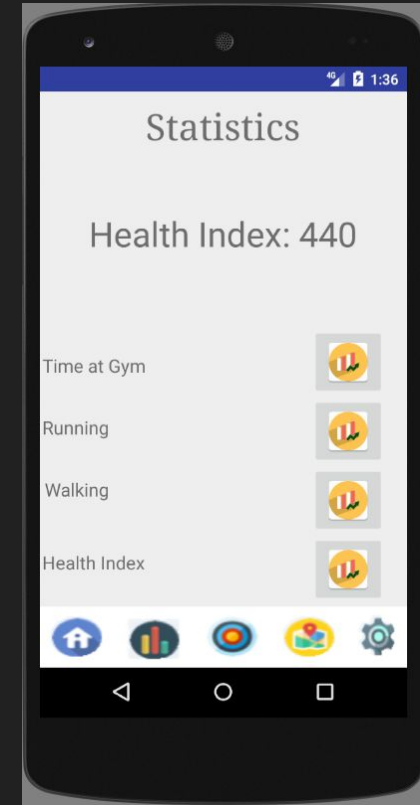
Calendar

- Google Calendar API
- Interacts separately from SQLite database
 - Creating event generates own event ID
 - If no ID created, server generates one
 - Local database in sync with events in Google Calendar



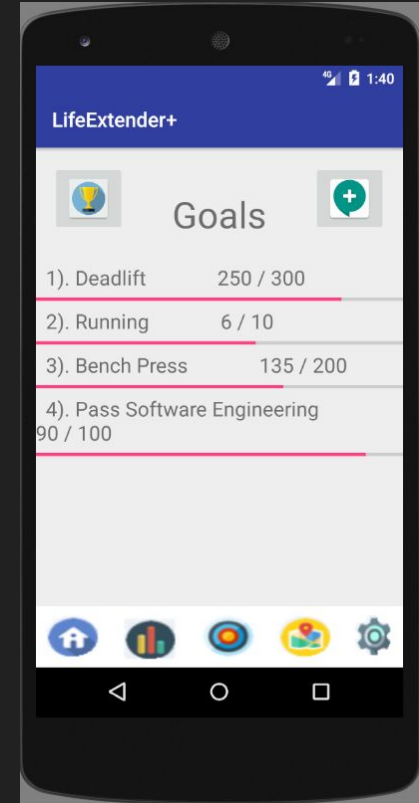
Statistics Tab

- Ability to view time spent running, walking or at the gym
- Uses function to calculate health index
 - $H_n = L \cdot x_1 + H \cdot x_2 + H_{n-1}$
 - H_n = health index
 - H_{n-1} = previous health index
 - x_1 = time spent during low intensity AP
 - x_2 = time spent during high intensity AP
 - $L = 1$ (low intensity constant multiplier)
 - $H = 3$ (high intensity constant multiplier)
 - $H_0 = 200$ (initial default health index)
- Settings Tab currently allows you to adjust the current health index and active period times to test the algorithm



Goals Tab

- Ability to make multiple new goals
 - Entering a name for a goal
 - Give a starting point for the goal
 - Give a target for the goal
- Displays created goals on the Goals Tab screen with a progress bar displaying progress towards that goal



GPS Polling

- Uses Google Maps API to track your location and speed.

Database

- Application uses Firebase database to store all its data.

