Life Extender + FLYER

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Life Extender +

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March 27, 2017

https://github.com/SE2017/LifeExtenderPlus

Product Overview

Taking fitness apps to a new level, Life Extender + (LEx) not only helps you stay on track through motivational cues and progress tracking, but also keeps track of your **Health Index,** which is an accumulation of points based on your overall active performance.

Features:

-**Health Index:** LEx uses an algorithm to calculate your overall fitness level via a Health Index.

-**Keeps track of your fitness progress:** LEx's Statistical Tab allows you to view your health index as well as how much time you've spent at the gym, walking, or running.

-**Google Maps:** Inclusion of Google Maps to track when you are being active.
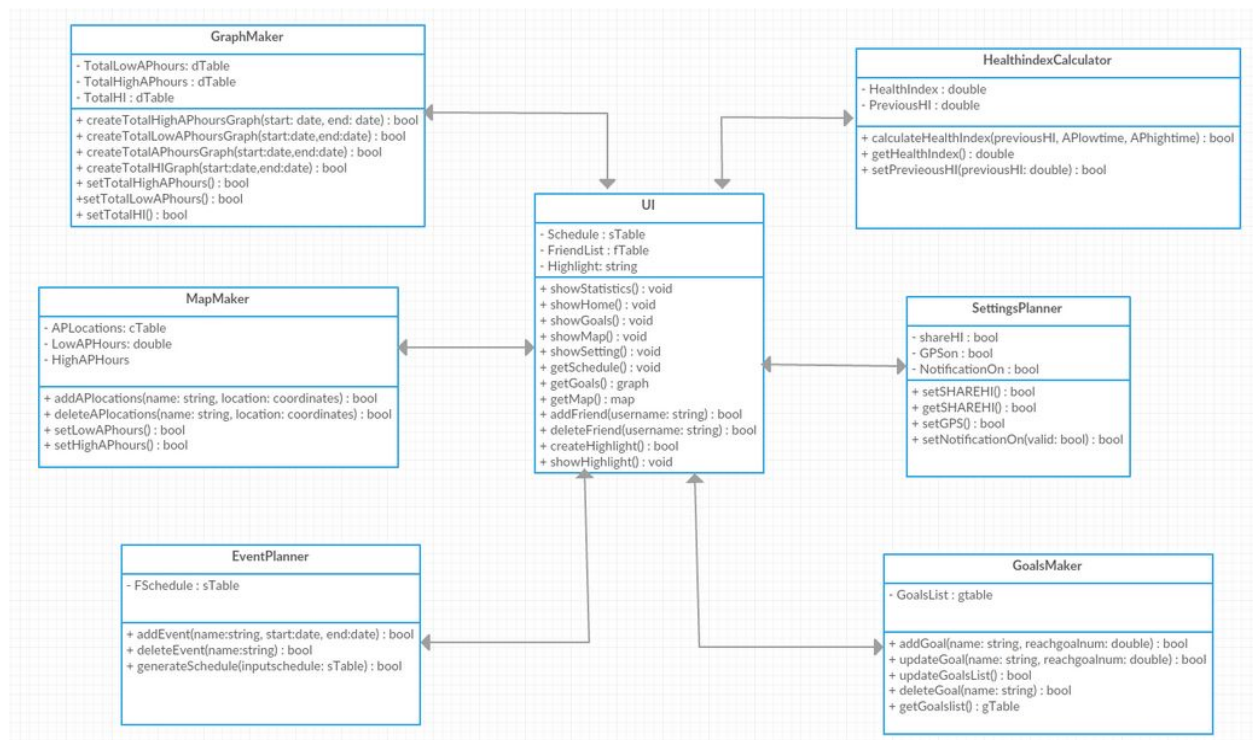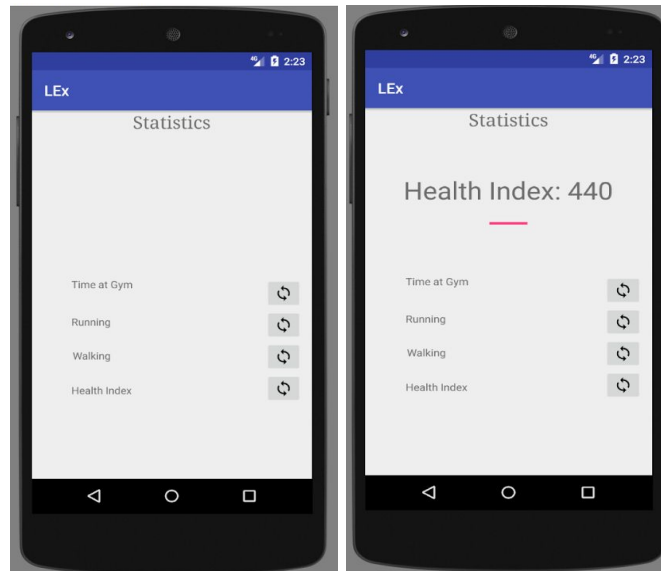
-**Helps you stay motivated**: LEx's Goals Tab allows you to set personal goals that you want to achieve.

-**Google Calendar:** LEx allows seemless integration with Google Calendar using their proprietary API.

...And more!

GraphMaker

- TotalLowAPhours: dTable
- TotalHighAPhours : dTable
- TotalHI : dTable

+ createTotalHighAPhoursGraph(start: date, end: date) : bool
+ createTotalLowAPhoursGraph(start:date,end:date) : bool
+ createTotalAPhoursGraph(start:date,end:date) : bool
+ createTotalHIGraph(start:date,end:date) : bool
+ setTotalHighAPhours() : bool
+setTotalLowAPhours() : bool
+ setTotalHI() : bool

HealthindexCalculator

- HealthIndex : double
- PreviousHI : double

+ calculateHealthIndex(previousHI, APlowtime, APhightime) : bool
+ getHealthIndex() : double
+ setPrevieousHI(previousHI: double) : bool

MapMaker

- APLocations: cTable
- LowAPHours: double
- HighAPHours

+ addAPlocations(name: string, location: coordinates) : bool
+ deleteAPlocations(name: string, location: coordinates) : bool
+ setLowAPhours() : bool
+ setHighAPhours() : bool

UI

- Schedule : sTable
- FriendList : fTable
- Highlight: string

+ showStatistics() : void
+ showHome() : void
+ showGoals() : void
+ showMap() : void
+ showSetting() : void
+ getSchedule() : void
+ getGoals() : graph
+ getMap() : map
+ addFriend(username: string) : bool
+ deleteFriend(username: string) : bool
+ createHighlight() : bool
+ showHighlight() : void

SettingsPlanner

- shareHI : bool
- GPSon : bool
- NotificationOn : bool

+ setSHAREHI() : bool
+ getSHAREHI() : bool
+ setGPS() : bool
+ setNotificationOn(valid: bool) : bool

EventPlanner

- FSchedule : sTable

+ addEvent(name:string, start:date, end:date) : bool
+ deleteEvent(name:string) : bool
+ generateSchedule(inputschedule: sTable) : bool

GoalsMaker

- GoalsList : gtable

+ addGoal(name: string, reachgoalnum: double) : bool
+ updateGoal(name: string, reachgoalnum: double) : bool
+ updateGoalsList() : bool
+ deleteGoal(name: string) : bool
+ getGoalslist() : gTable

System Requirements

Android Lollipop 5.1