

# ELEC-E8408

# HIKING WATCH

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# Contents

General overview

Watch

Hub

Database

LED Matrix Display

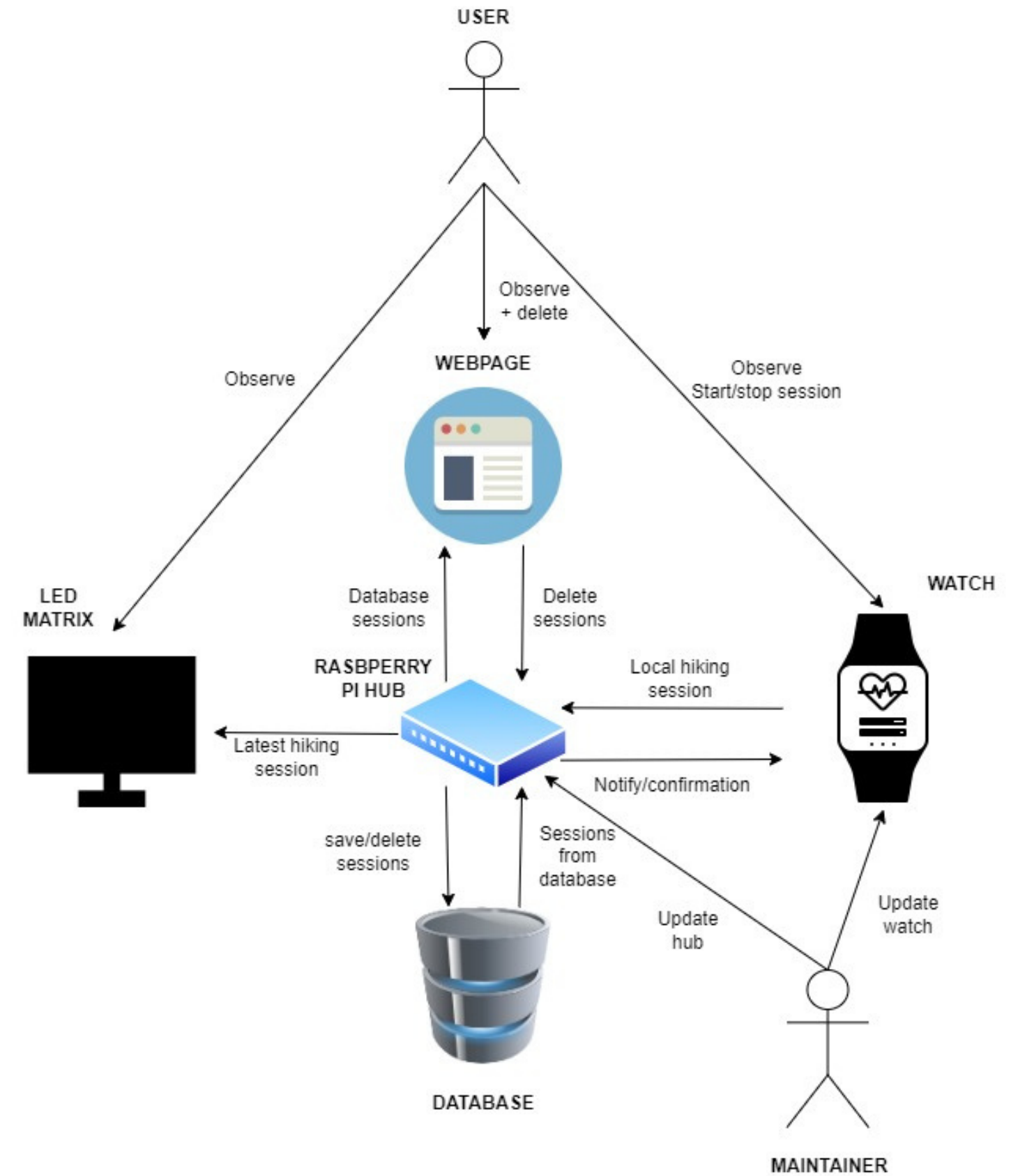
Website

Live Demo



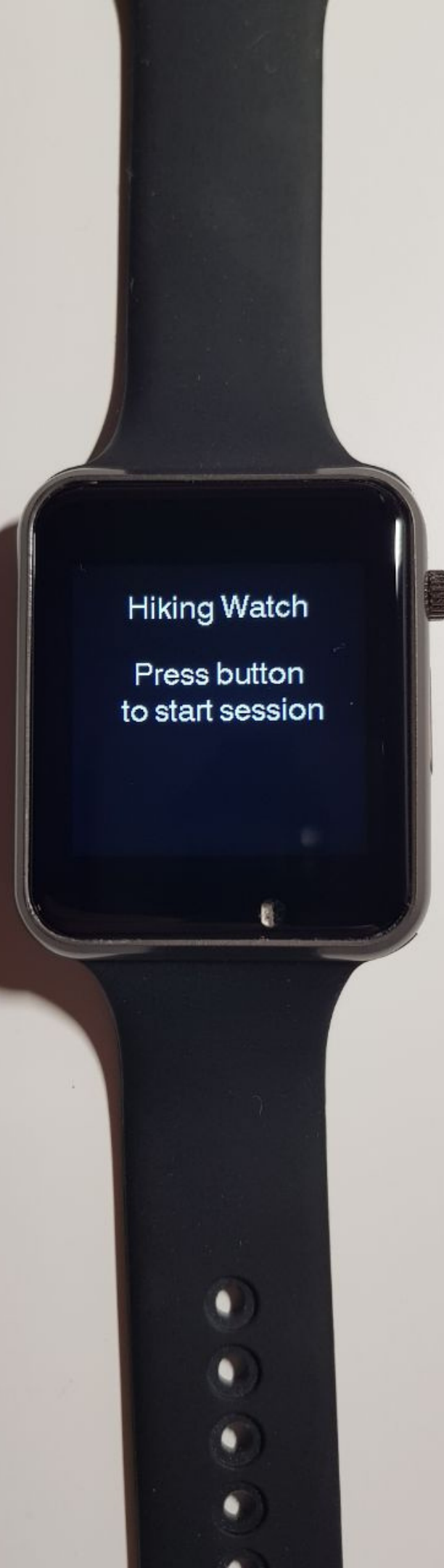
# General overview

- Context
- Interfaces
  - User
  - Maintainer
- System Layout



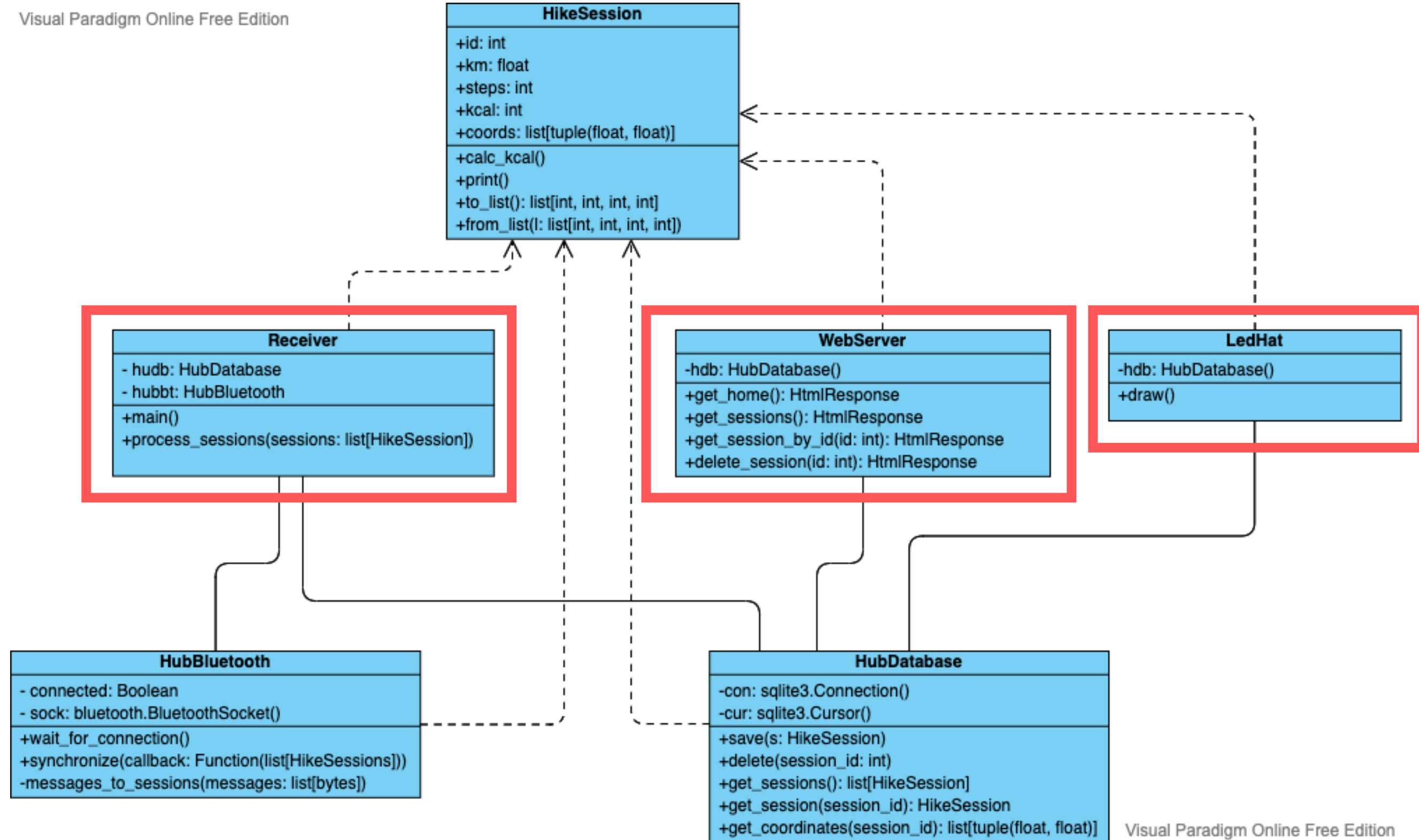
# Watch

- Functions
  - Step counter
  - Distance
  - Current position
- Automatic sync with hub



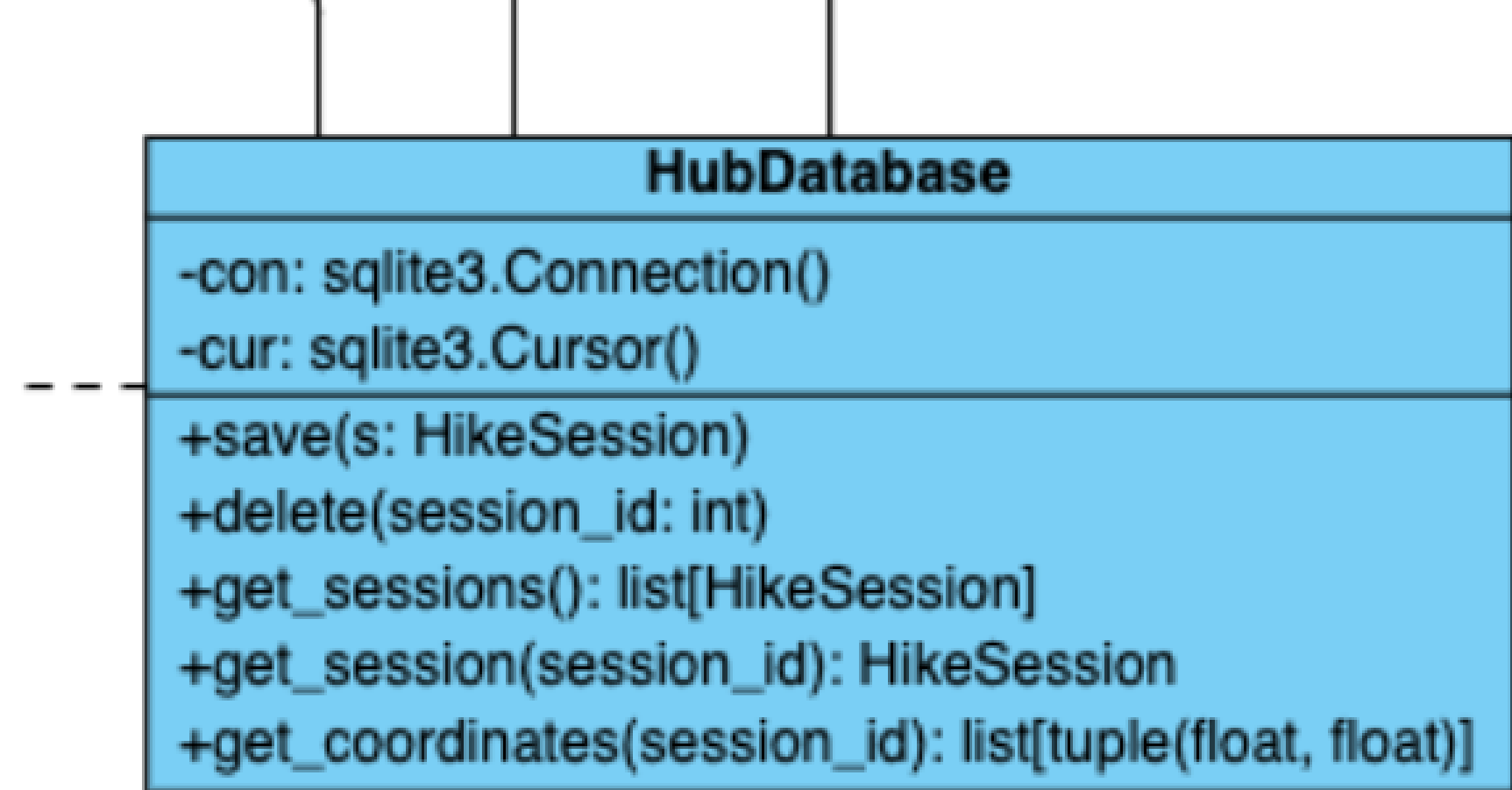
# Hub

- Receiver
- Web Server
- LED Controller
- HikeSession as common data interface



# Database

- HubDatabase
  - interface to sqlite3
  - used by all components
- SQL Tables

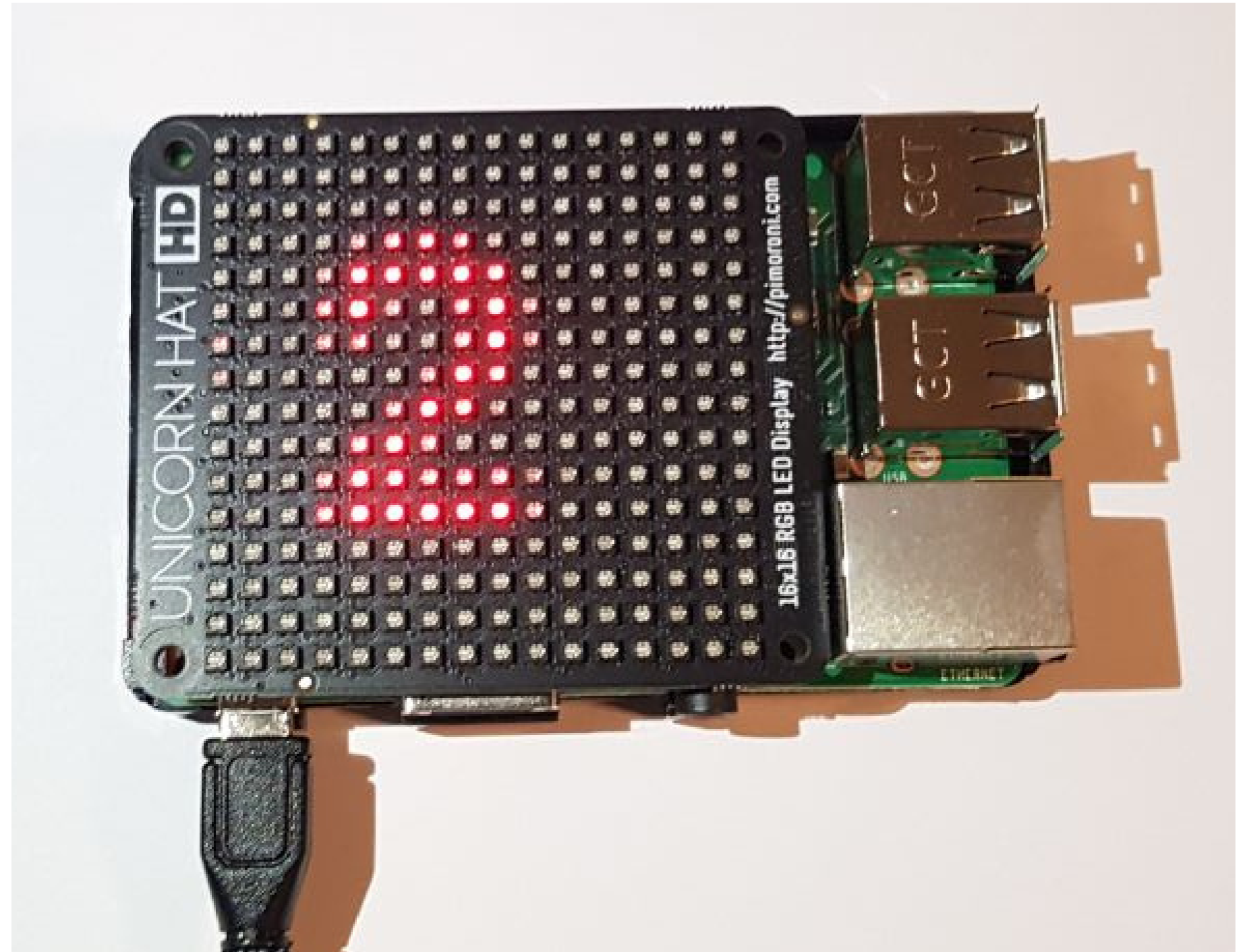


session	
<b>session_id</b>	int
km	int
steps	int
burnt_kcal	int

coordinates	
session_id	int
lat	REAL
long	REAL

# LED Matrix Display

- Display last session
  - Step count
  - Distance
  - Burned Kcal





# Website

- Access all
- Display one
- Delete any

## LiLyGo Watch Database

Select a session:

empty
Session: 1
Session: 2
Session: 3
Session: 4
Session: 5
Session: 6
Session: 7
Session: 8
Session: 9

Parameters

0 (km)
5 (steps)
1.20 (kcal)
Delete session





**Demo time!**







# Check out our repo

