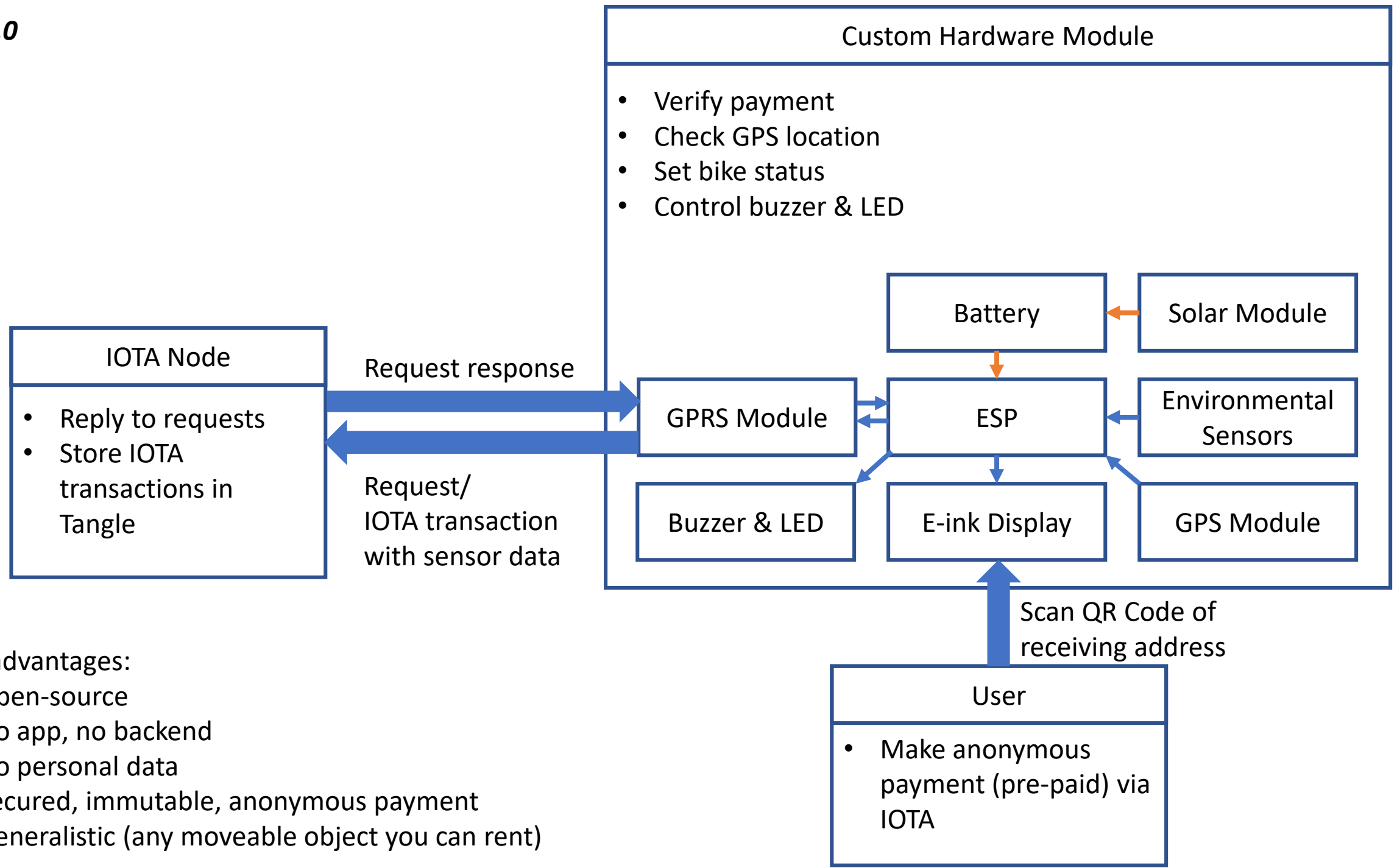


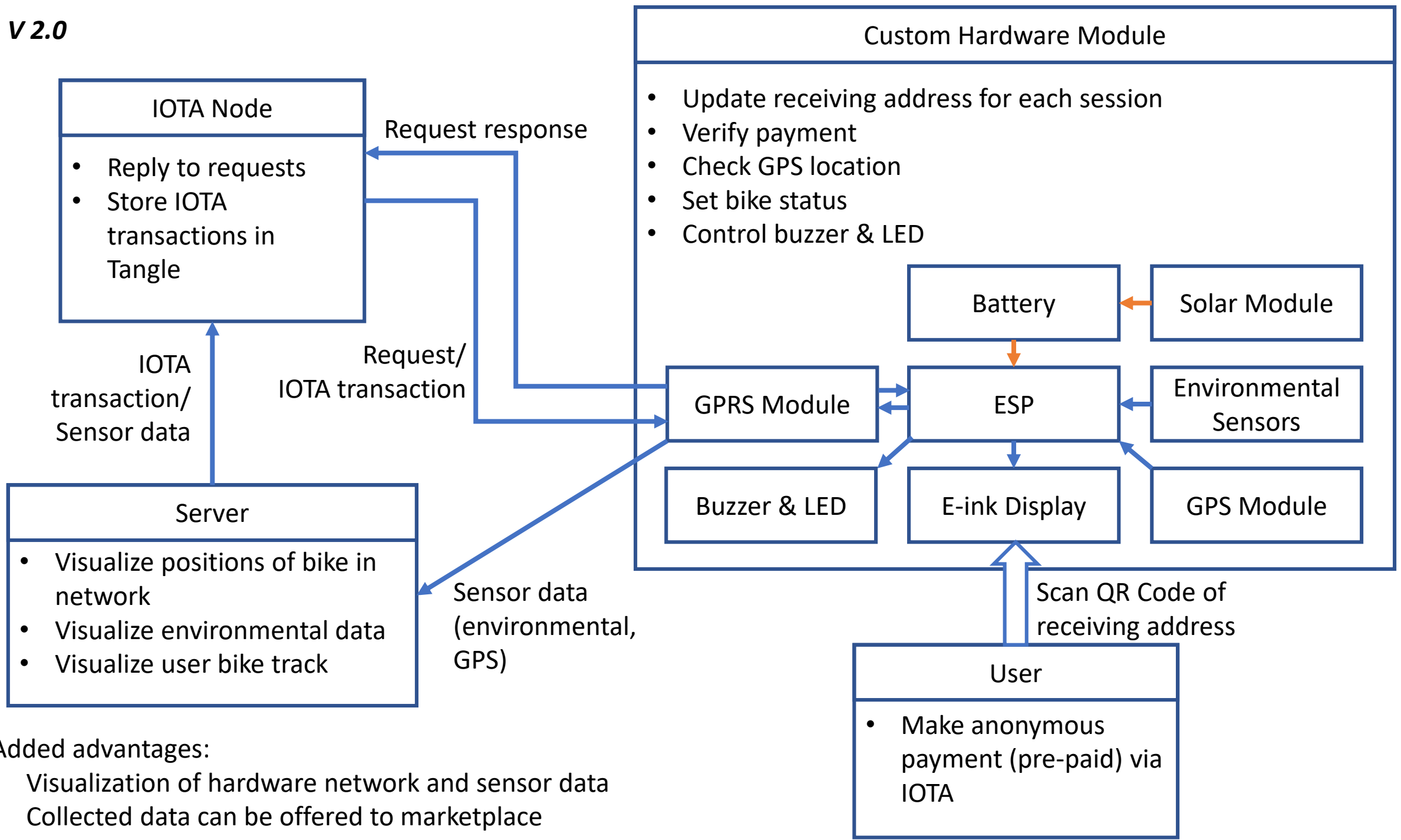
V 1.0



Key advantages:

- Open-source
- No app, no backend
- No personal data
- Secured, immutable, anonymous payment
- Generalistic (any moveable object you can rent)

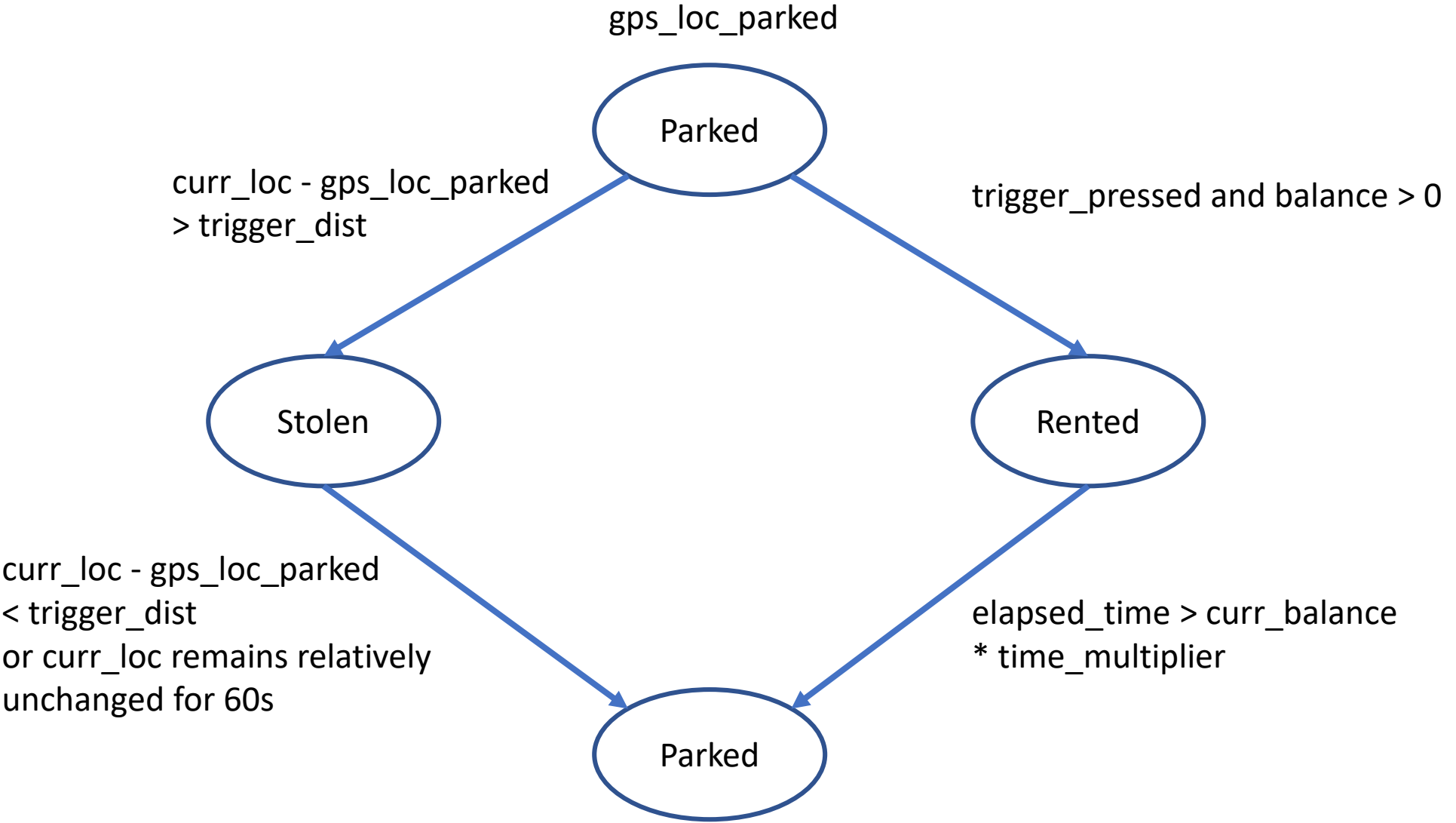
V 2.0



Added advantages:

- Visualization of hardware network and sensor data
- Collected data can be offered to marketplace

State diagram of hardware module



"Parked" loop

- Check if trigger button is pressed
 - If true: get_balance()

Loop 10 times

- Go to sleep
- Wake up every 60 seconds
- Take sensor data
- check_if_stolen()
 - If true: get start_loc,
get start_time,
break loop

- Send to server all data

get_balance()

Loop 10 times

- Get account balance B
 - If $B = 0$: delay 10s
 - If $B > 0$: status = rented,
break loop

check_if_stolen()

- $\text{curr_loc} - \text{gps_loc_parked} > \text{trigger_dist}$
- If true: status = stolen,
 - If false: status = parked

"Rented" loop

- Collect sensor data & send to server
- Check balance for top-ups
- Check if session expires
 - If true: status = parked,
update receiving address,
break loop

"Stolen" loop

- check_if_stolen()
 - If false: break loop
 - If true:
 - $\text{loc_avg} = (\text{start_loc} + \text{curr_loc})/2$,
 - If time > 60 seconds:
 - If $(\text{loc_avg} - \text{start_loc}) < \text{trigger_dist}$:
status = parked,
gps_loc_parked = loc_avg,
break loop

Database

