

Intrusion detection in hostel

Background and problems:

The use of key cards for hostel room access can be inconvenient for users as they are easily misplaced and damaged. They can also be duplicated easily, allowing forced intrusion without the user's knowledge.

Our solution:

Implement VERROUILLER, a smart locking system that automatically unlocks the door when the user's bluetooth address is detected. Comes with a mobile app that allows the user to authorise unlocking of the door. The locking system is also able to detect when the door is unlocked without the user's authorisation, and contains a log of when the door is unlocked/locked.

Features:



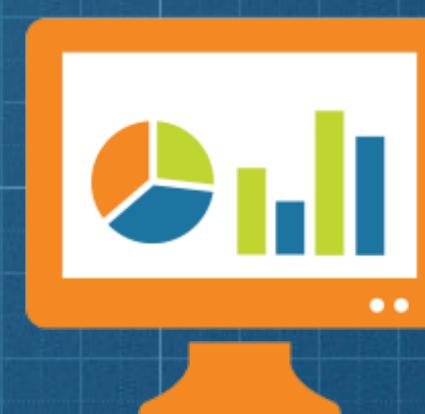
Enhanced security- remote lock to unlock/lock from ANYWHERE



App requires user authentication

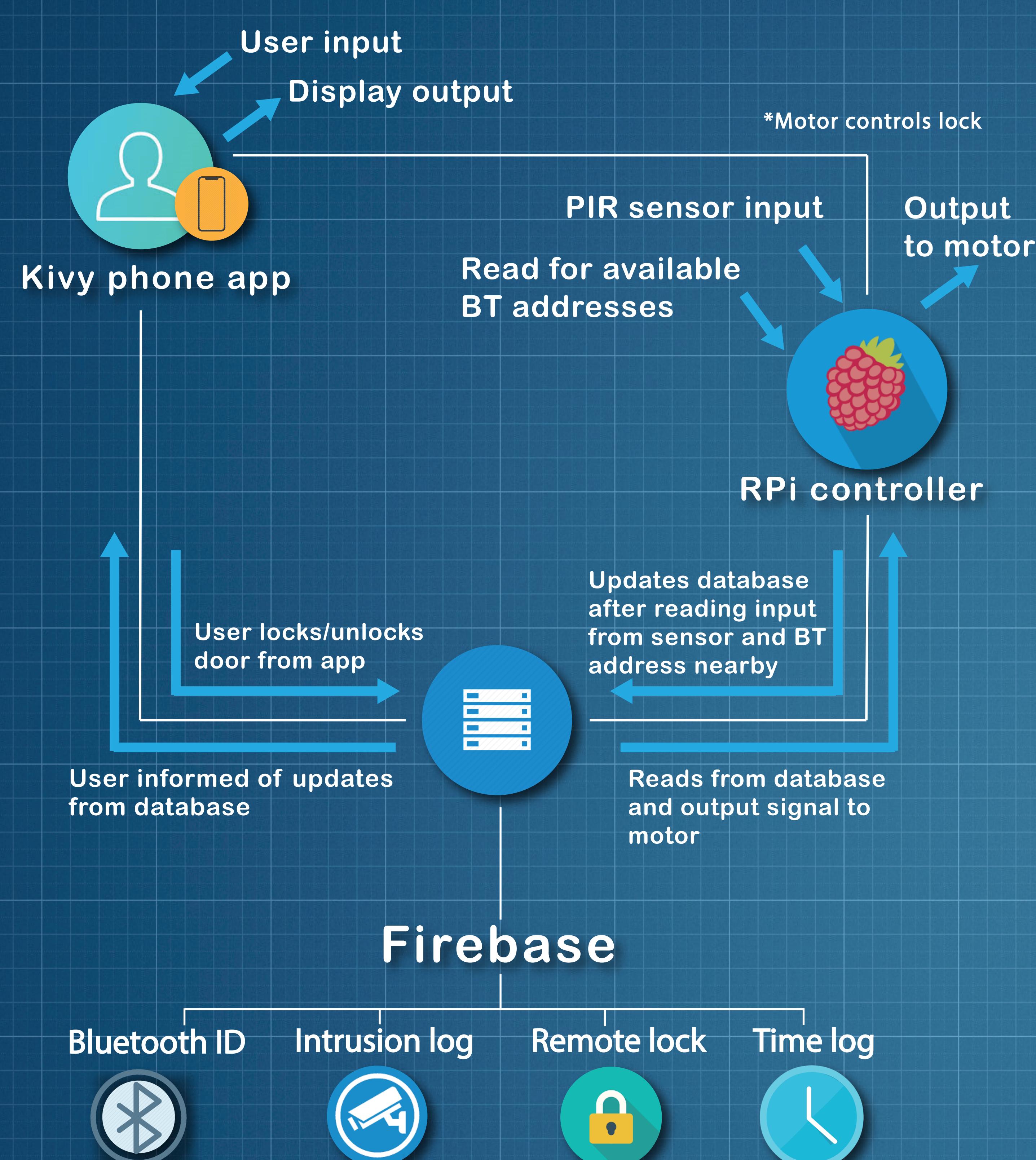


Log of intrusion/leave records

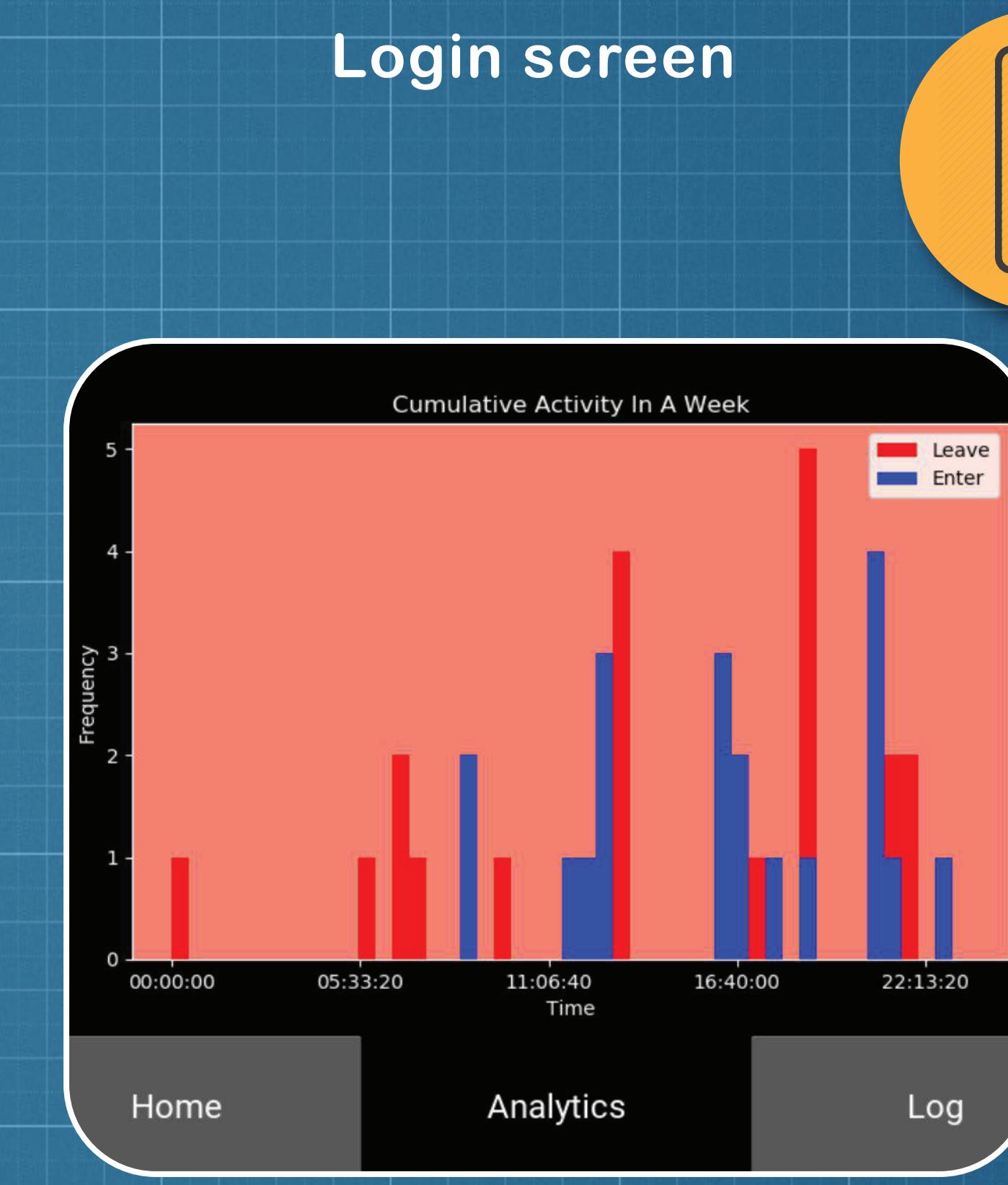
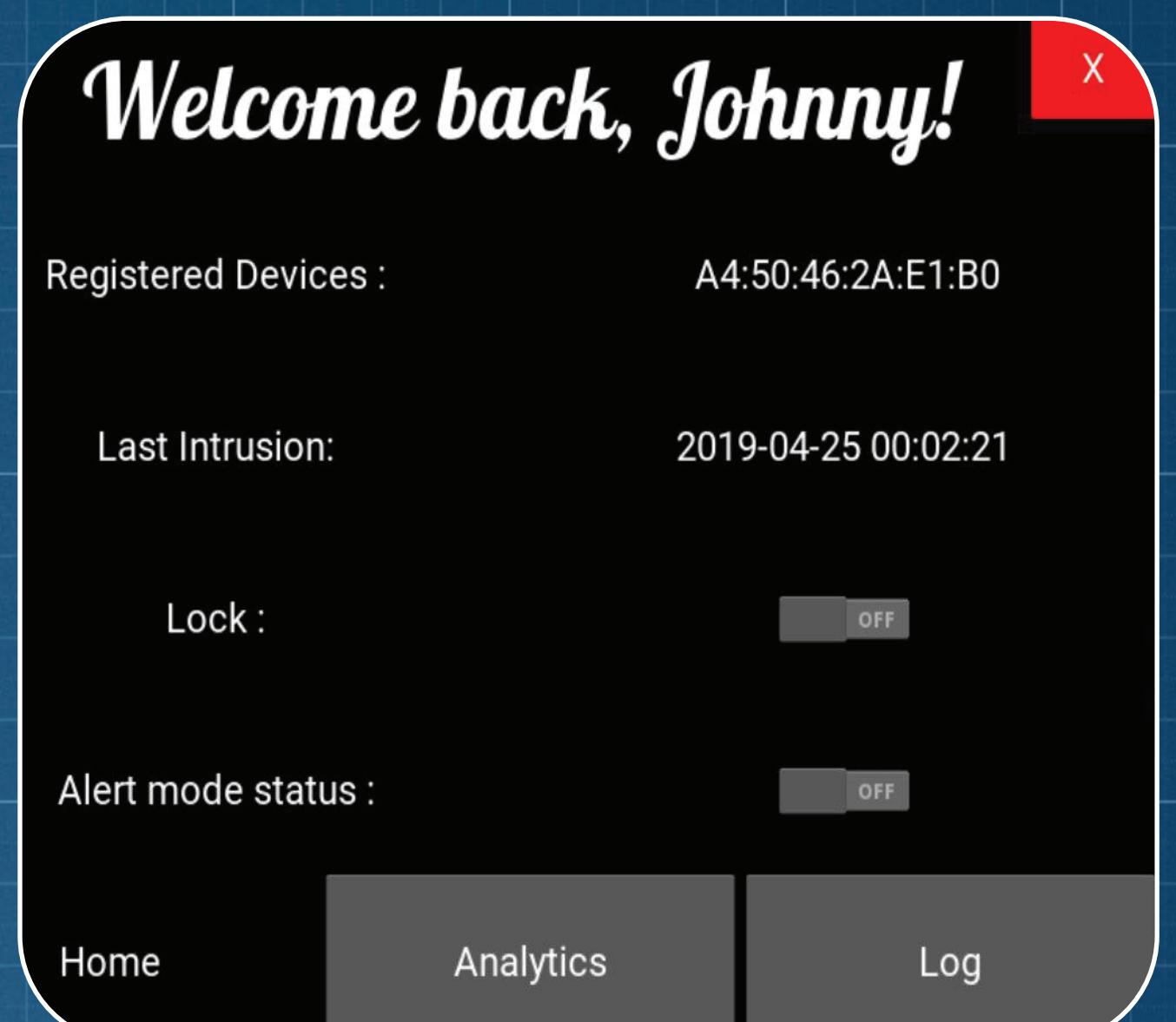
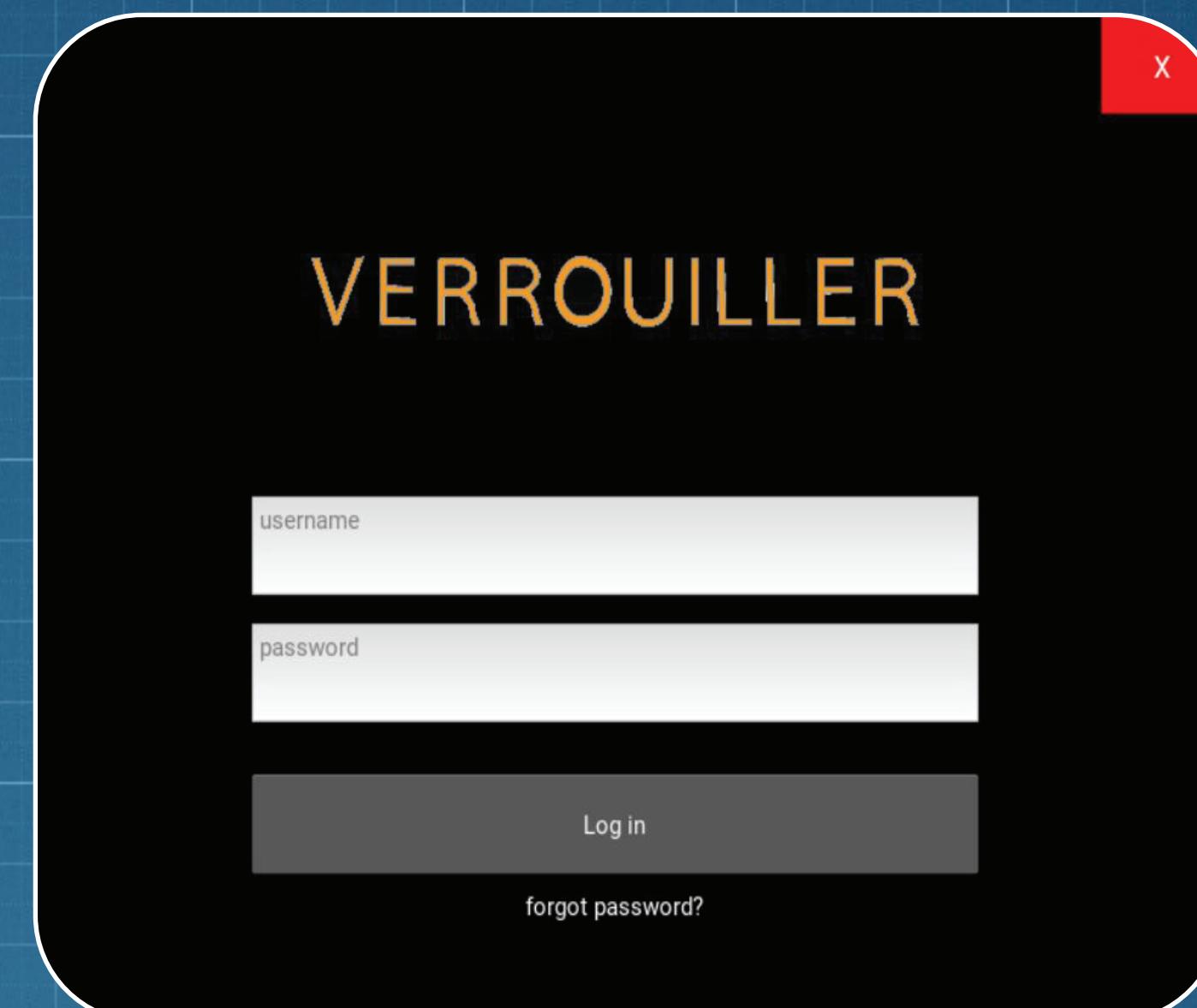


Comprehensive data analysis

How exactly does it work?



User Interface:



Index	Enter	Leave
1	2019-04-26 18:54:30	2019-04-26 22:31:30
2	2019-04-26 08:58:30	2019-04-26 12:34:23
3	2019-04-25 20:58:30	2019-04-26 00:00:00
4	2019-04-25 17:48:51	2019-04-25 18:58:43
5	2019-04-25 11:38:31	2019-04-25 12:54:31
6	2019-04-24 22:59:01	2019-04-25 06:54:58
7	2019-04-24 20:38:08	2019-04-24 21:09:33
8	2019-04-24 16:18:22	2019-04-24 17:01:22
9	2019-04-24 12:49:51	2019-04-24 13:01:44
10	2019-04-23 23:50:01	2019-04-23 07:00:17

Home Analytics Log

Benefits of proposed solution:

- Convenience without the need for a physical token
- More control and surveillance over who enters
- Alert system that tracks unrecognised entry