

Team Number: 6 Distance Based Application Trigger

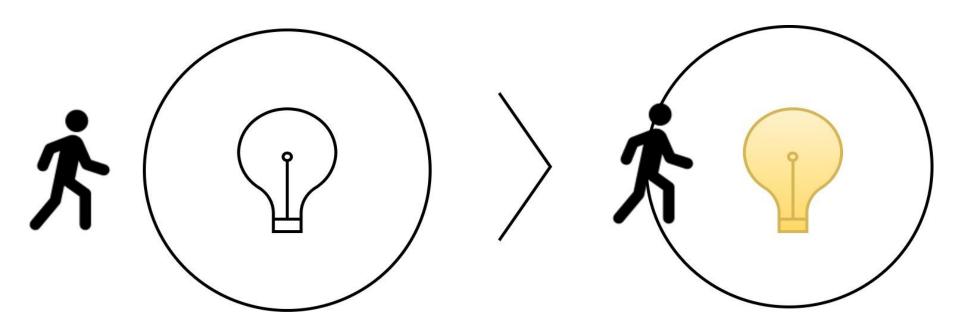
Mehdi Yosofie & Philipp Schlieker, 25.01.2019

Software- and Systems Engineering Research Group Fakultät für Informatik Technische Universität München

www4.in.tum.de/

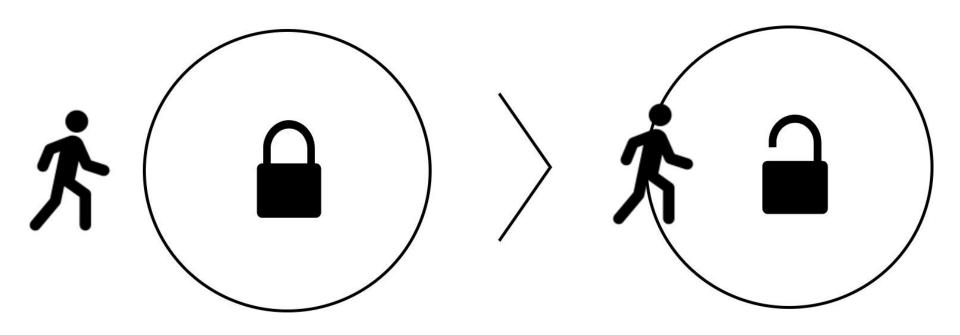
Distance Based Application Trigger





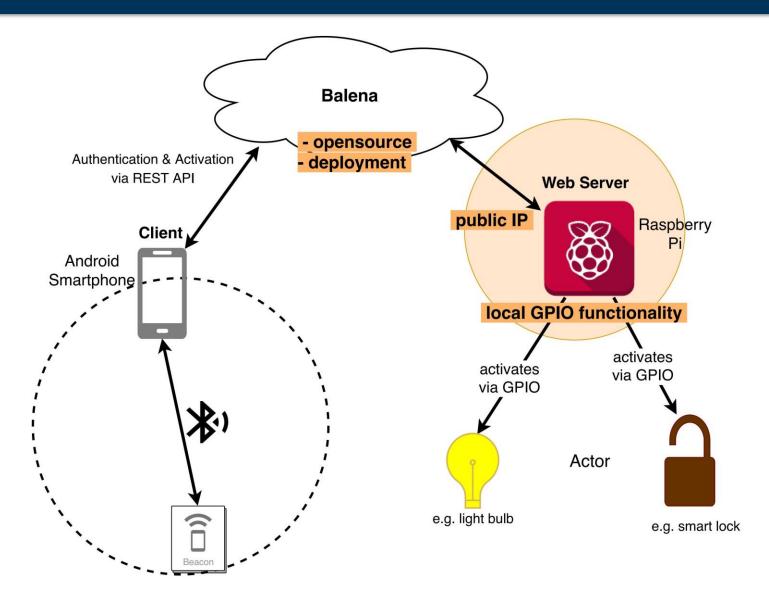
Distance Based Application Trigger





Conceptual approach





Sensors used







Bluetooth Low Energy (BLE)

Beacons

Problems Faced



- Android Implementation
 - Missing Permissions
 - Background Detection on Android 8+

Used technology | Balena & Docker





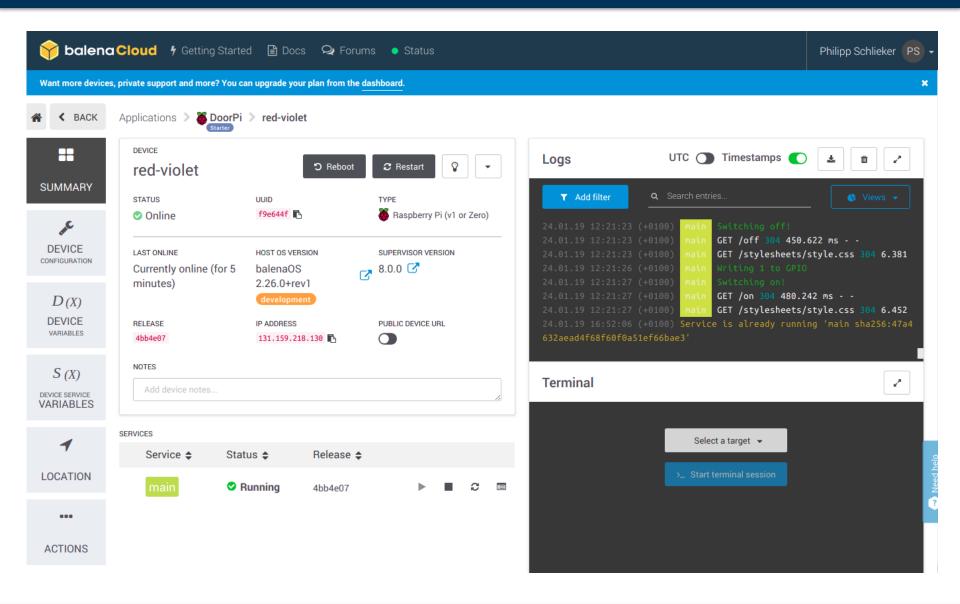




https://www.balena.io/what-is-balena/

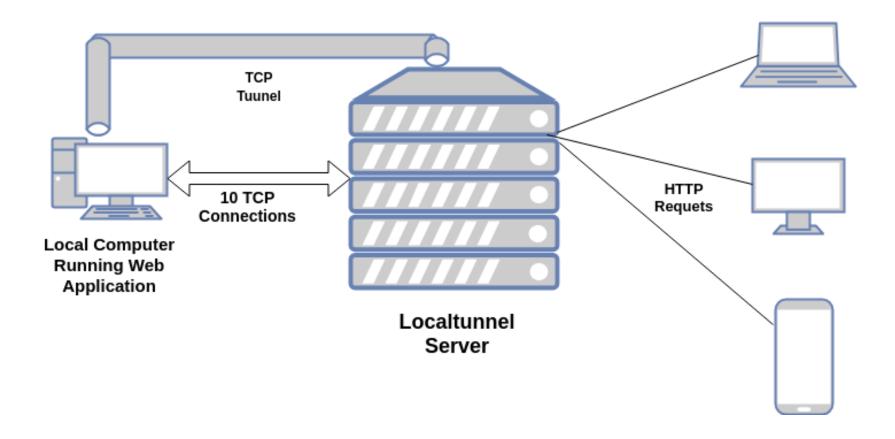
Used technology | Balena & Docker





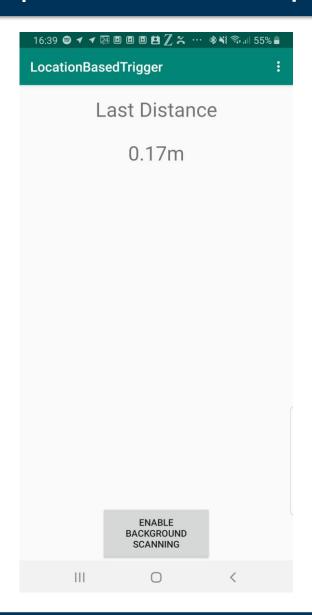
Used technology | LocalTunnel

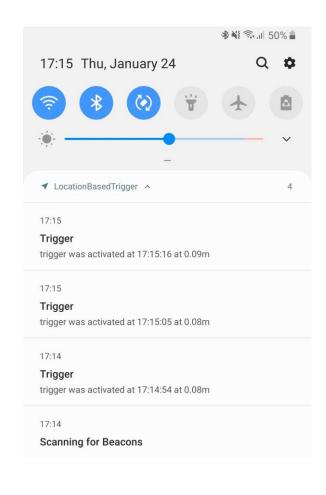




Demo | Final Android Application







Demo | Final API





Welcome to Location Based Trigger

Current status: off

The API provides the following options:

Endpoint	Action
/trigger?timeout=	Switch the device on and after the timeout (default 6000ms) off
/on	Switches the device on
/off	Switches the device off