# Zaki and Buluthan Research

## Collaborative Device and Data Management in the Domestic Internet of Things

### What they want

* An IoT device
* A consent based IoT model that prevents any single user being in control of the device or its data.
* Build access management software and user interfaces that enable users to collaboratively manage access to the device and its data.
* The device needs to negate human security threats by co-inhabitants.
* So, on the device side, we could have sensors, Pi, a database, and an interface (e.g. an iPad) that lets a user see and/or do something with the device (e.g., open a door)

### How we can do it

* We need to use sensors and actuators to collect data
  1. An actuator is a component of a machine that is responsible for moving and controlling a mechanism or system, for example by opening a valve.
* These sensors and the actuators would pump data into a Raspberry Pi.
* We can use a use a PIR sensor (Passive Infrared) to monitor movements.

# Tom and Ian Research

## Packt – Light Book Reader

### Who they are and what they do.

* They are a company that provides access to books online
* They have several API for authorization, content delivery and discovery

### What they want

* Currently using JS single page app
  + Have a single page which is constantly updated using JS and Node.JS server.
  + Not good solution for users with low spec devices
  + You cannot currently use the service without using JavaScript
* Looking for solution to obtain and render content in a HTML/CSS presentation
  + Create different templates to view content
    - Allow branding to change
    - Language
    - Accessibility
  + Must provide views for external partner sites
  + The program must simply pull from the Packt API service, apply a template and render the content. No interactivity is necessarily required.
* They want a server that uses APIs to parse content and present a book
  + Has table of contents, sections, charts and graphs, inline code
  + Bookmarking, content

### How we can do it

* Use Node JS to make the server: Pull from the APIs and communicate with the DB
* Liquibase to manage the database schema
* Use docker to deploy the application (docker is used to make an virtual environment to test the lightweight server)
* Use WordPress to create templates in PHP

Berk and Mario research

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We agree with this because,…

Unit and Integration testing.

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Linux

Big Data technologies

Proficient with GIT

Agile

Self-motivated, consistent high performer

Evolving, idea of being good at investment even if you're not

Ask if they have API?