
Hestia Home:

Home automation in a breeze.

Team Hestia



1. Intro

A general introduction in our problem and solution.

- **User Stories**
- **Problem**
- **Our solution**



Meet Mr. Specter.

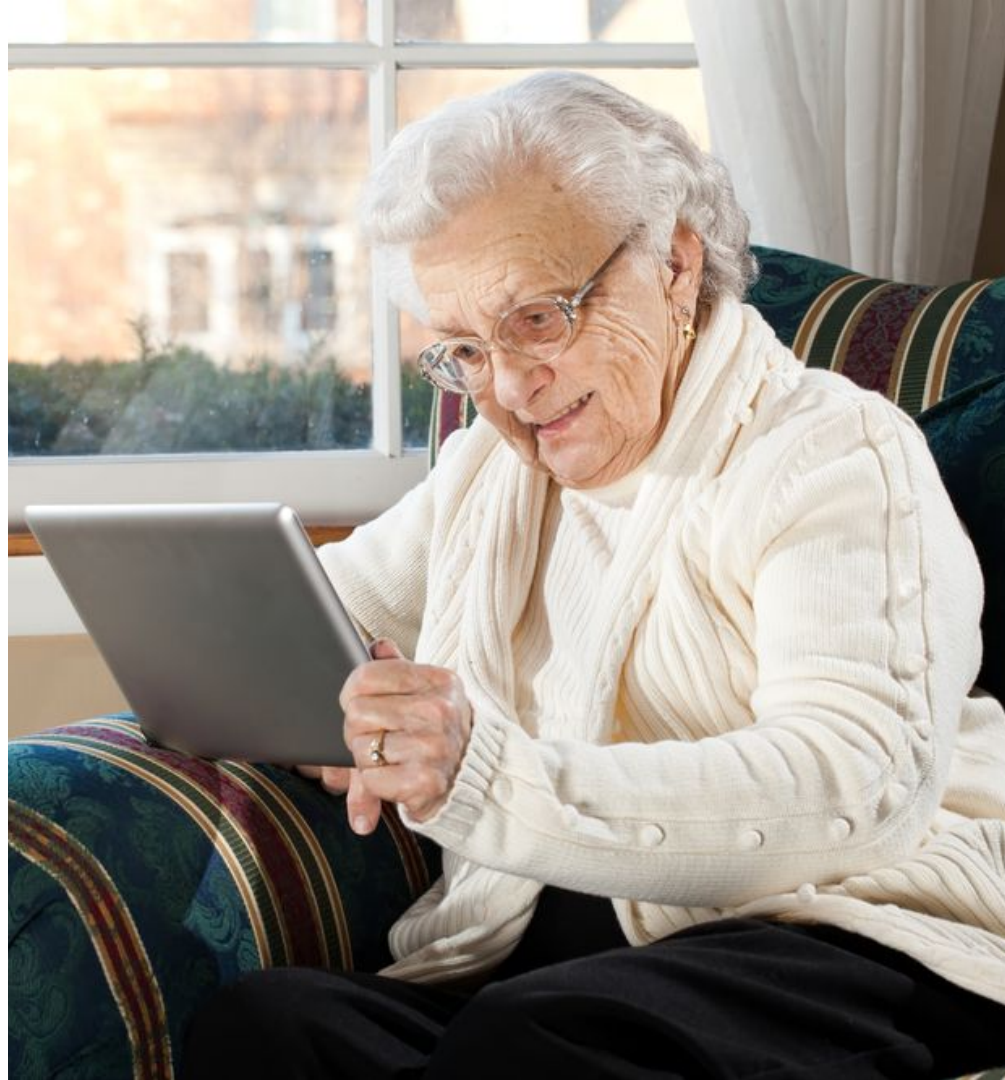
He is a successful lawyer, works long hours job, and lives in a nice neighbourhood.

He is afraid of burglars and wants to turn on the lights in his home at 6 o'clock while still at work.

Meet Mrs. Granny

She is 90 years old and still lives on her own.

She recently got a tablet from her granddaughter and would love to open the door while staying seated.





Meet Marleen.

She is a real technology freak and has all the new gadgets in house.

She would like to control all of her IOT devices from one point, and do so securely.

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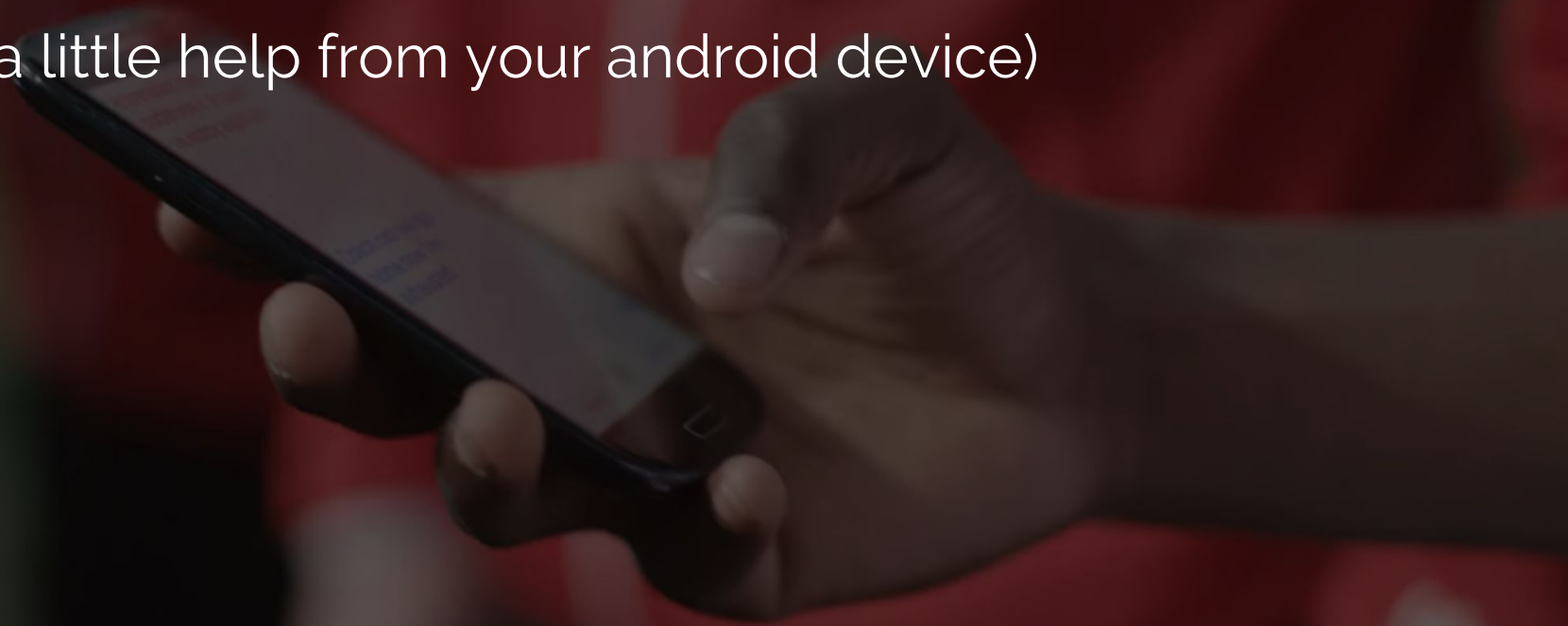
Home automation,
it's rather complex!

—

**Home automation,
made simple again!**

One hub! Your own.

(With a little help from your android device)





2. Technology

How does it **look**, **feel**, and most important **work**?

- System overview
- Phone
- Server
- Devices

System Overview

Client

- Phone
- Tablet

Server

- RaspberryPi
- Api

Devices

- Philips Hue
 - Motor control
-



Architecture

Android App

Back-end & Front-end

Server API

Automatic GUI

INSERT PICTURE HERE

Android App

Server

Python

Flask_restplus

Plugins

Hestia Home Automation app

A home automation hub for all your IOT devices

devices : All devices of the system

Show/Hide | List Operations | Expand Operations

GET	/devices/	List all devices
DELETE	/devices/{deviceId}	Delete a device given its identifier
GET	/devices/{deviceId}	Fetch a given device
GET	/devices/{deviceId}/activator/{activatorId}	Fetch a given action of a device
POST	/devices/{deviceId}/activator/{activatorId}	Post a given action of a device

plugins : All plugins of the system

Show/Hide | List Operations | Expand Operations

GET	/plugins/	Fetch all the organizations that have plugins installed
GET	/plugins/{organization}/	Fetch the required information of a plugin
GET	/plugins/{organization}/plugins/{plugin_name}	Fetch the required information of a plugin

[BASE URL : / , API VERSION: 0.2]

Server

Devices

Philips Hue

Motor Driver

Your own!



Devices

INSERT MOVIE HERE



3. Lessons learned

You **learn** by **doing**, and by **falling over**.

-Richard Branson

- Documentation
- Clean code
- Change

—

“Writing gives the mind a
disciplined means of **expression.**”

Mihaly Csikszentmihalyi, Flow

—

“To write **clean code**, you **must** first write **dirty code** and then **clean it**.”

Robert C. Martin, Clean Code

—

“This is one of the most important lessons [...]: **if you cannot fail, you cannot learn.**”

Eric Ries, The Lean Startup



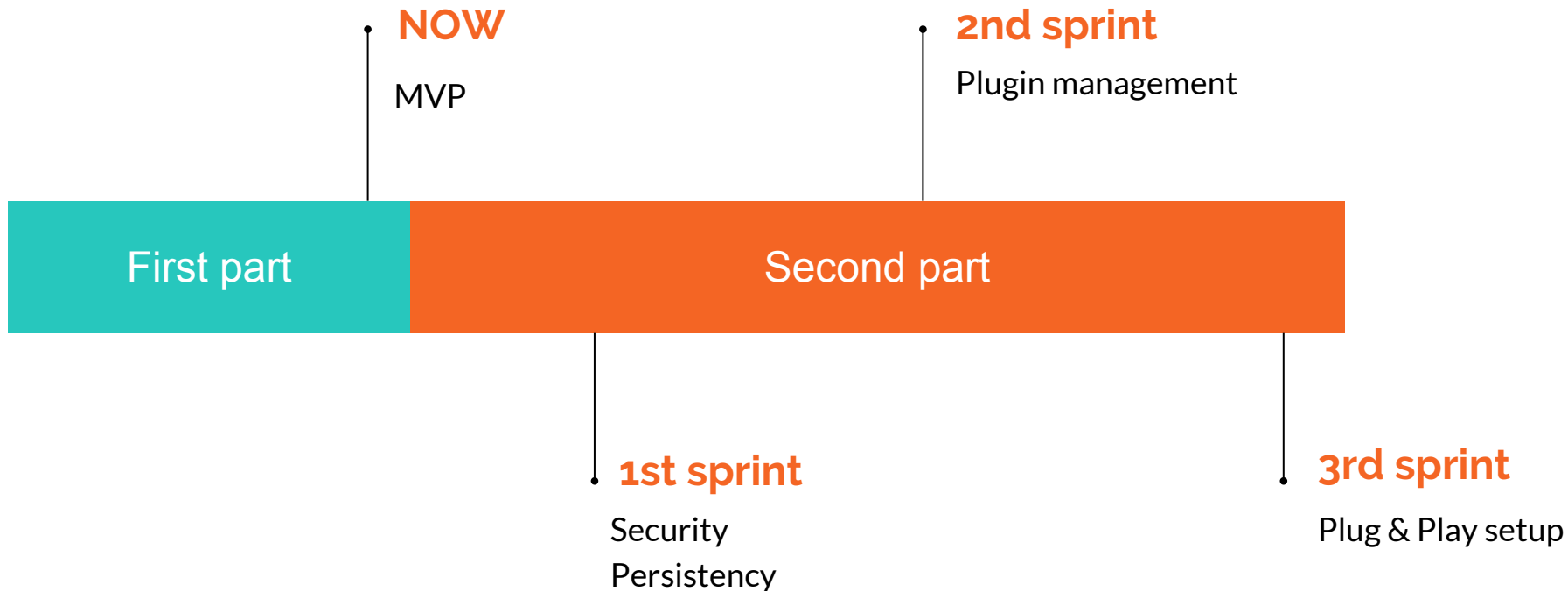
4. Future work

The past **cannot be changed**. The future is yet **in your power**.

-Unknown

- Better Plugin support
- Security

Milestones



What people are saying



**Now my house is
safe again.**

Mr. Specter, NYC

**I wish this was
around 50 years
ago.**

Mrs. Granny, DC

**One place for all
my devices. This
is so nice.**

Marleen, NYC

Quotes for illustration purposes only

