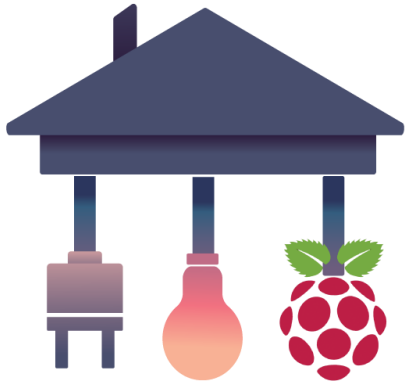
Universitatea “Alexandru Ioan Cuza” Iași
Facultatea de Informatică

Implementarea unui sistem software de tip Smart Home

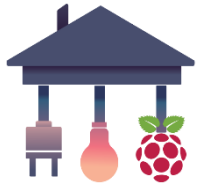


Coordonator științific:
Lector doctor Cristian FRĂSINARU

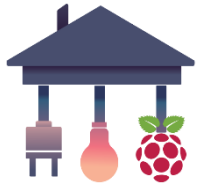
Absolvent:
Nicușor TURCU

Sesiunea: Iulie 2018

Cuprins

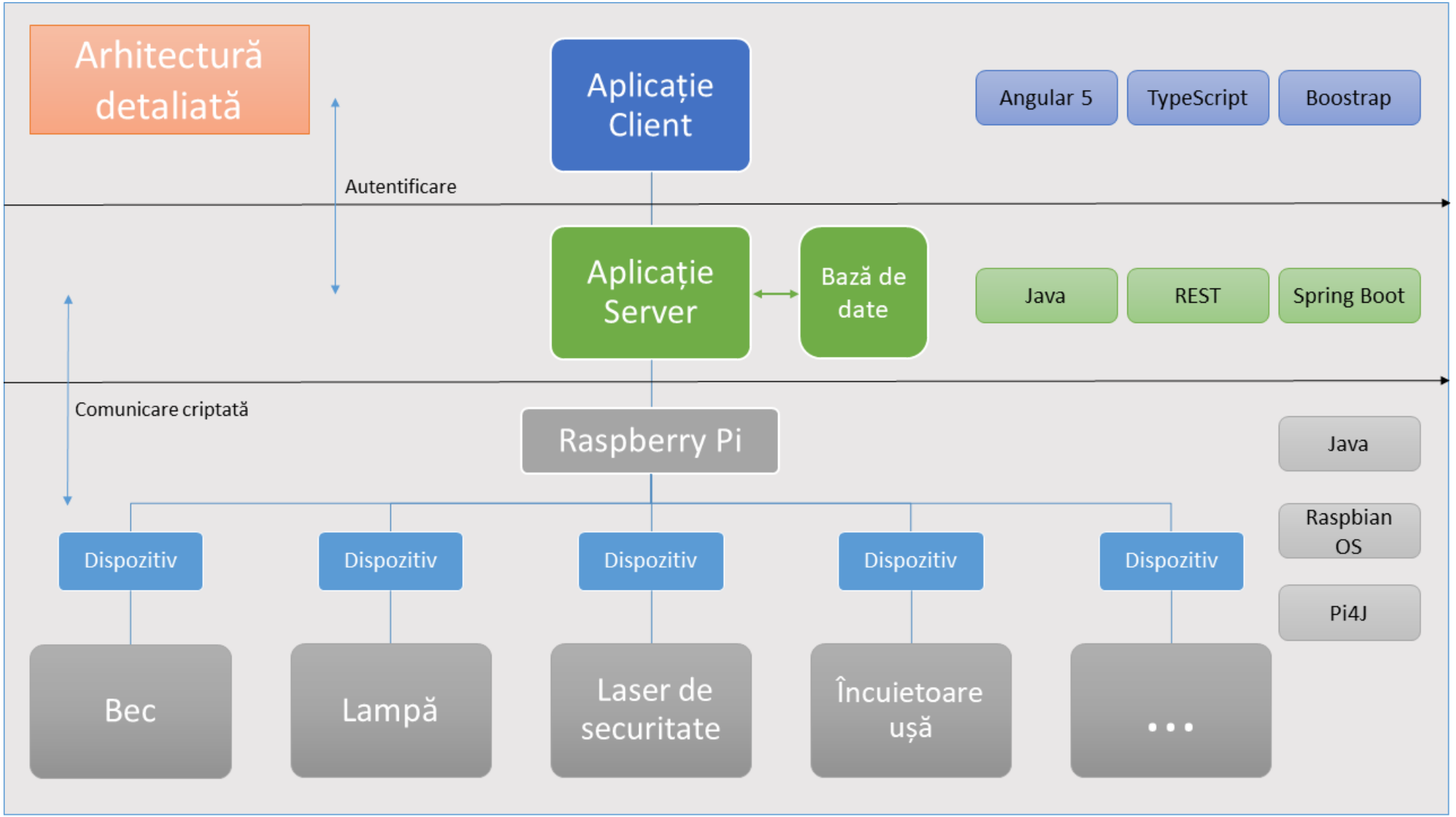


1. Introducere

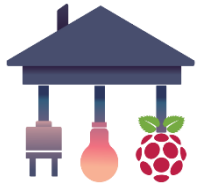


- De ce Smart Home?
- etc

2. Arhitectura sistemului



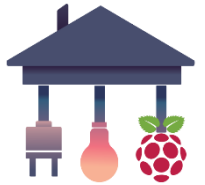
3. Aplicația web



Angular 5 | Boostrap 4 | HTML | CSS | Typescript

cuvinte cheie

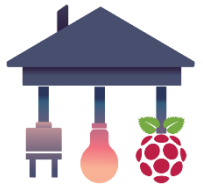
4. Server REST Java



API REST SSL/TLS Java

cuvinte cheie

5.Dispozitive inteligente

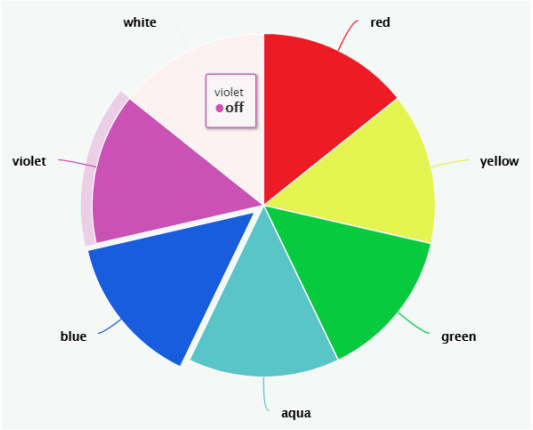


Raspberry Pi | Arduino | PI4J | SSL/TLS | Java

cuvinte cheie

6. Dispozitive implementate

Software



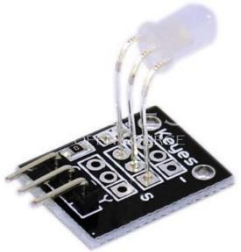
Lampă

Bec

Laser de securitate

Hardware

KY-016, Modul LED cu 3 culori



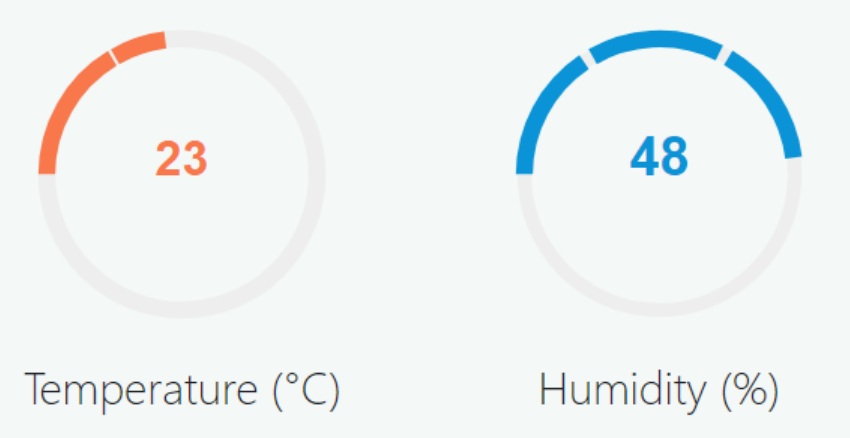
KY-011, Modul LED cu 2 culori

KY-008, Modulul senzor laser

6. Dispozitive implementate

Software

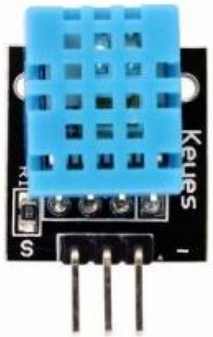
Încuietoarea ușii



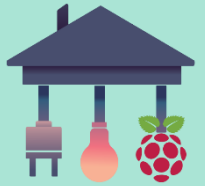
Monitor ambianță locuință

Hardware

KY-019, Modul releu 5V

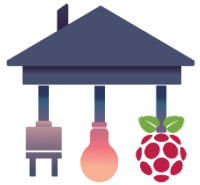


KY-015, Modulul cu senzor de temperatură și umiditate



Demo

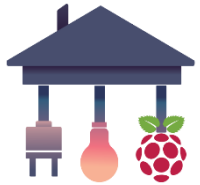
7. Direcții de dezvoltare



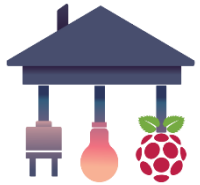
- Creșterea numărului de dispozitive;
- Creare a grupuri de utilizatori;
- Înlocuirea serverului Java cu o arhitectură bazată pe microservicii;
- Folosirea protocolului HTTPS între server și client.

8.Concluzii

- concluzie



Întrebări?



Mulțumesc pentru atenție!