



Introdução à Engenharia de Software

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Simplifying Smart Living, one click at a time!

Presented by
ÂNGELA RIBEIRO 109061
HUGO CASTRO 113889
REGINA TAVARES 114129
RITA SILVA 114220



Product Concept

Purpose:

- Provide homeowners with an intuitive, seamless way to monitor and control their homes.

Core Features:

- Add, remove and control devices such as lights, speakers, etc.
- User-friendly web platform (desktop & mobile).
- Schedule automations.
- Account security.

Differentiation:

- Compatible with multiple smart device brands.

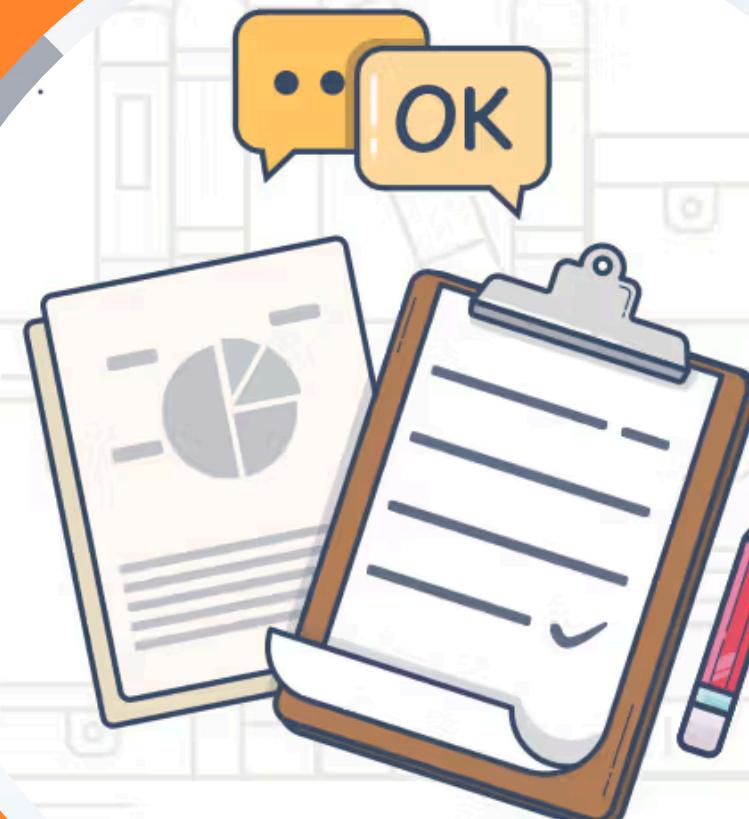
Future Potential:

- Integration with external resources (e.g., Amazon Alexa).
- Implement geolocation automation.
- Implement alerts.
- Implement add/remove room functionality.





User Stories



- As João, I want to check the status of all devices and ambience in my home instantly, ensuring that nothing is left on unintentionally and the atmosphere is perfect. (High)
- As Catarina, I want to set up an automation to my coffee machine a certain hour to ensure that I save time. (Medium)
- As João, I want to be able to delete automations whenever I see them, so I can have better control over my home and adapt to changes in my routines or preferences. (Medium)
- As Maria, I want to mark notifications as read after reviewing them, so I can keep track of what I've already seen. (High)
- As João, I want to be able to select which notifications I receive about my home, so I can focus on the information that matters most to me. (Medium)
- As Catarina, I want to delete notifications I no longer need, so I can maintain a clean and organized notification history. (Low)



User Stories

(cont.)



As João, I want to receive notifications when devices in my home start or stop, so I can stay informed about their activity and usage. (High)

As Maria, I want to log in to my account quickly and securely and be able to add and remove devices to my account, so that I can customize my smart home system as my family's needs change. (High)

As Catarina, I want to control all the devices in my home from one app, so I don't waste time switching between different apps. (High)

As Maria, I want to integrate my smart home system with Alexa, so that I can control my home through voice commands when I'm busy with my children. (Low)

As João, I want to see a detailed breakdown of my home's usage trends, so I can identify any spikes or areas where energy is being wasted. (Medium)

As Catarina, I want my account to be secured, so I can ensure that only I have access to control my home automations. (Low)



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Backlog

HomeMaid

Filter by keyword or by field

Title	Assignees	Status	Priority	Points
33 🎯 Develop the Welcome Page Frontend #55	Rita-Silva04	Done	Medium	1
34 🎯 Develop the Automations Services #63	angelamaribeiro...	Done	Medium	4
35 🎯 Integrate InfluxDB for Time-Series Data Storage #64	hujuc, Rita-Silva04, ...	Done	Medium	5
36 🎯 Implement JWT Logic for Authentication #65	angelamaribeiro...	Done	Medium	5
37 🎯 Implementemt Notifications and integrate with the API #74	angelamaribeiro...	Done	Medium	3
38 🎯 Implement add/remove device functionality #83	Rita-Silva04	Done	Medium	3
39 🎯 Implement edit profile functionality #85	rtavares018	Done	Medium	1
40 🎯 Set Automations related to time limits #15	hujuc	Todo	Low	4
41 🎯 Implement Automatic Alerts #16	angelamaribeiro...	Todo	Low	3
42 🎯 Get trigger notifications #18	angelamaribeiro...	Done	Low	2
43 🎯 Set Alerts #19	hujuc	Done	Low	4
44 🎯 Integrate smart home system with Alexa #22	hujuc	Todo	Low	1
45 🎯 Implement geolocation automation #24	hujuc	Todo	Low	2
46 🎯 Do minimal changes to the mockups #45	angelamaribeiro...	Done	Low	1
47 🎯 Deploy the System Using Containers #59	hujuc	Done	Low	4
48 🎯 Develop the Help and AboutUs pages #60	Rita-Silva04	Done	Low	2
49 🎯 Adjust the code so we can use DTOs #66	angelamaribeiro...	Done	Low	1
50 🎯 Implement Alerts and integrate with API #68	angelamaribeiro...	Todo	Low	4
51 🎯 Realizar Testes de Performance para Geração e Consumo de Dados com Kafka #72	hujuc and Rita-Silva...	Done	Low	3
52 🎯 Implement add/remove room functionality #84	angelamaribeiro...	Todo	Low	4

HomeMaid

Filter by keyword or by field

Title	Assignees	Status	Priority	Points
1 🎯 Check Status #13	hujuc	Done	High	5
2 🎯 Allow Customization #20	hujuc and rtavares0...	Done	High	5
3 🎯 Implement Centralized House Control #21	Rita-Silva04	Done	High	5
4 🎯 Get detailed breakdown of house's spendings #23	Rita-Silva04 and rta...	Done	High	5
5 🎯 Design the Figma Interface Mockups #25	angelamaribeiro...	Done	High	5
6 🎯 Decide on the final logo design #26	angelamaribeiro...	Done	High	1
7 🎯 Complete the report #27	rtavares018	Done	High	1
8 🎯 Define requirements and constraints that directly influence the architecture #28	rtavares018	Done	High	2
9 🎯 Define the components, languages and libraries adopted in the project #29	rtavares018	Done	High	4
10 🎯 Define how and in what way the components will interact with each other #30	rtavares018	Done	High	3
11 🎯 Create an initial version of the homepage #31	angelamaribeiro...	Done	High	5
12 🎯 Create API documentation #32	hujuc	Done	High	3
13 🎯 Deploy the system increment in containers #33	hujuc	Done	High	5
14 🎯 Restructure the project architecture #41	rtavares018	Done	High	2
15 🎯 Plan the API architecture #42	angelamaribeiro...	Done	High	3
16 🎯 Develop the code for the API #46	angelamaribeiro...	Done	High	5

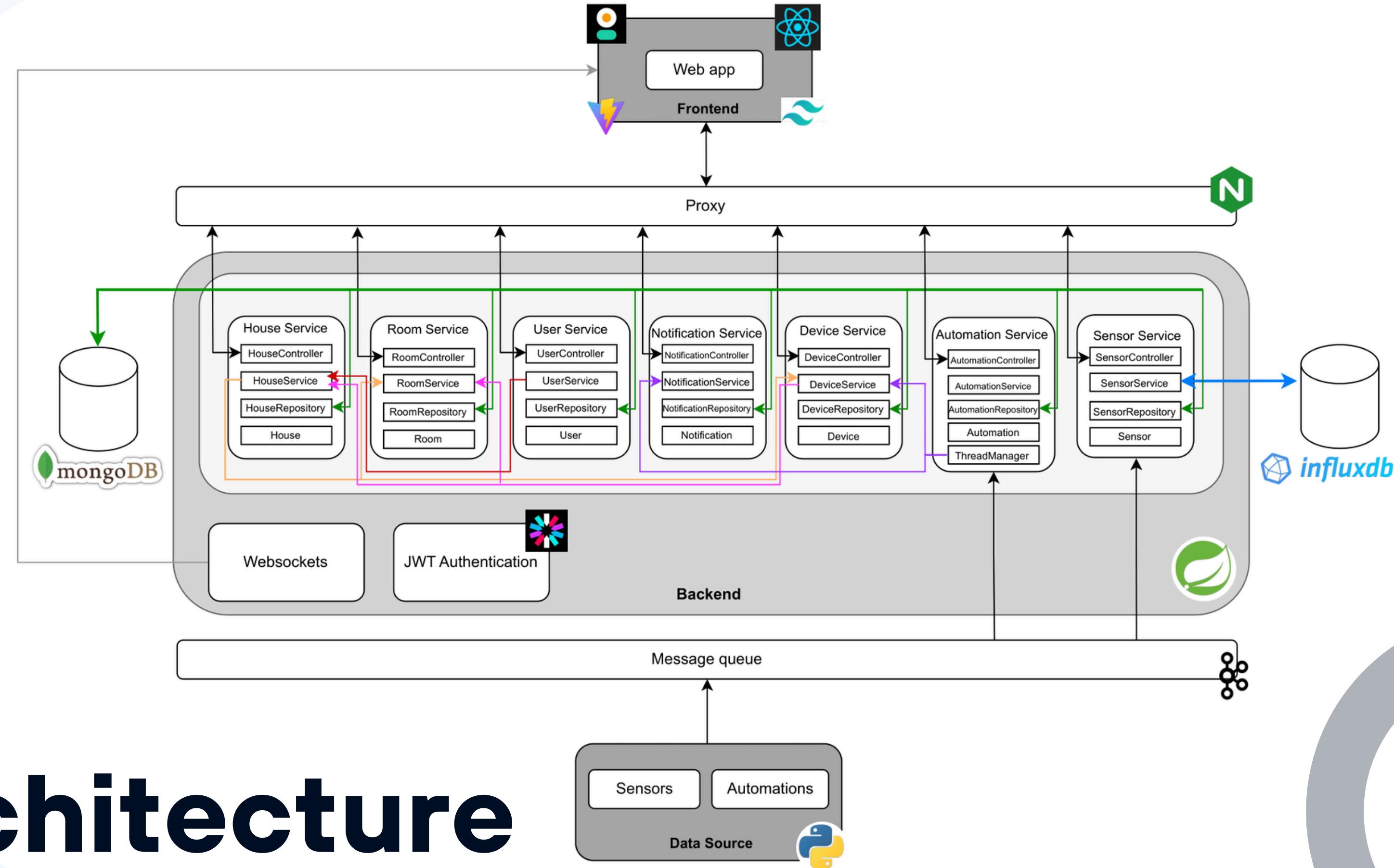
HomeMaid

Filter by keyword or by field

Title	Assignees	Status	Priority	Points
17 🎯 Develop the Home Page and Integrate with the API #56	angelamaribeiro...	Done	High	5
18 🎯 Develop Automation Pages for Different Devices and Integrate with the API #57	angelamaribeiro...	Done	High	5
19 🎯 Restructure the API to Align with the New Architecture #58	angelamaribeiro...	Done	High	5
20 🎯 Develop the sign up page and integrate with the API #61	angelamaribeiro...	Done	High	3
21 🎯 Generate Houses #67	Rita-Silva04	Done	High	1
22 🎯 Configuração de Kafka #69	hujuc	Done	High	2
23 🎯 Desenvolver Producer para Envio de Dados para Kafka #70	hujuc	Done	High	2
24 🎯 Desenvolver Consumer para Consumo de Dados do Kafka #71	hujuc	Done	High	2
25 🎯 Deploy to the machine #73	angelamaribeiro...	Done	High	3
26 🎯 Implement Automations using threads #82	angelamaribeiro...	Done	High	3
27 🎯 Automate a task #14	Rita-Silva04	Done	Medium	4
28 🎯 Implement Automatic Notifications #17	angelamaribeiro...	Done	Medium	3
29 🎯 Set up API Development Environment #43	hujuc	Done	Medium	1
30 🎯 Create and deploy DataBase #44	angelamaribeiro...	Done	Medium	2
31 🎯 Test the API using PostMan #49	angelamaribeiro...	Done	Medium	2
32 🎯 Develop the Login Page Frontend and Integrate with the API #54	Rita-Silva04	Done	Medium	2



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Architecture



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Demo

