

# DYNAMIC APARTMENT MAP

## Context

The project focuses on the **connected experimentation apartment** of the Grenoble IT laboratory (DOMUS).  
 The apartment is 80m2 and is arranged to look like a real living space. Each room is equipped with cameras, **sensors** and **home automation elements**.  
 It is used to conduct behavior analysis experiments on the use of the home automation of the space.

## Description

Project overview: develop a tool to make DOMUS home automation more accessible.  
 Create a **dynamic map** that can be integrated into a **website**, to:

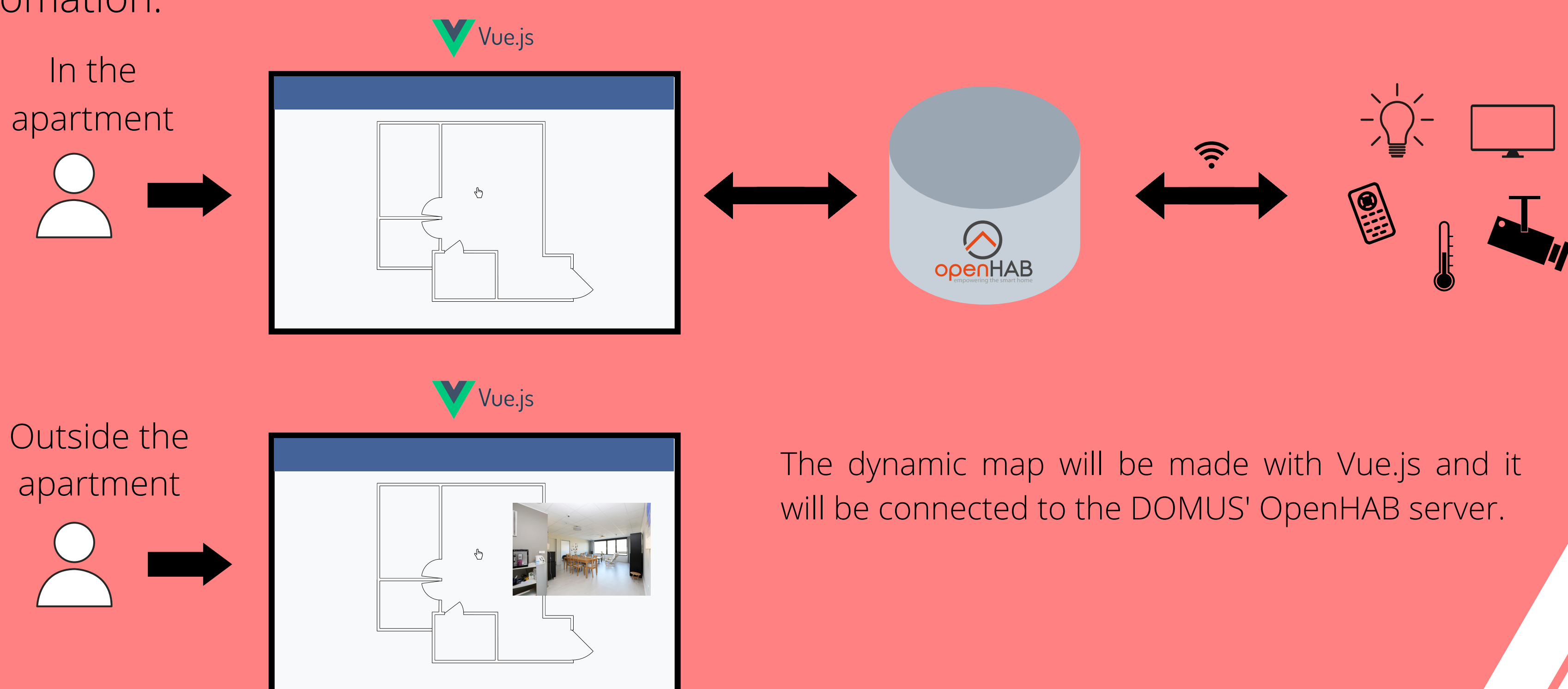
- present the apartment to the public, improve **visibility** of the laboratory,
- **ease** the apartment **experimentation** process.

This map could be used by anyone to discover the smart apartment, by accessing **photos** by clicking on a room.  
 It could allow testers of the apartment to **control sensors and effectors** through a single interface, by interacting with the map.

## How it works

**Vue.js:** framework based on a programming language named JavaScript. Used to develop **web applications**.

**OpenHAB:** application that manages **connected devices**, dedicated to home automation.



## Tasks & Challenges

### Tasks

- Conception and modeling
- Developing an interactive map with Vue.js
- Learn how to use OpenHAB
- Link the map with OpenHAB

### Challenges

- Make an **easy to use interface**, usable by **anyone**.
- Develop an **adaptable code** that can be completed in the future.