SMART HOTEL

INNOVATING THE HOSPITALITY INDUSTRY SINCE 2024

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01

WHY?

The reason for developing Smart Hotel

02

HOW?

Use Case Diagram, Project Overview

03

NEXT?

Future plans Testing

01

WHY?

The reason for
developing Smart Hotel

HARDWARE USAGE

We have smart windows and various sensors that are ideal for a smart hotel setup. This project allows us to demonstrate their practical, real-world applications.

GUEST EXPERIENCE

Smart windows and sensors adjust room conditions for personalized comfort. Automated services and voice controls streamline guest interactions

ENERGY EFFICIENT

Our hardware optimizes energy use, reducing costs and promoting sustainability. Sensors enable real-time safety monitoring.

COMPETITIVE EDGE

A smart hotel attracts tech-savvy travelers and stands out from traditional hotels. Eco-friendly features appeal to environmentally conscious guests.
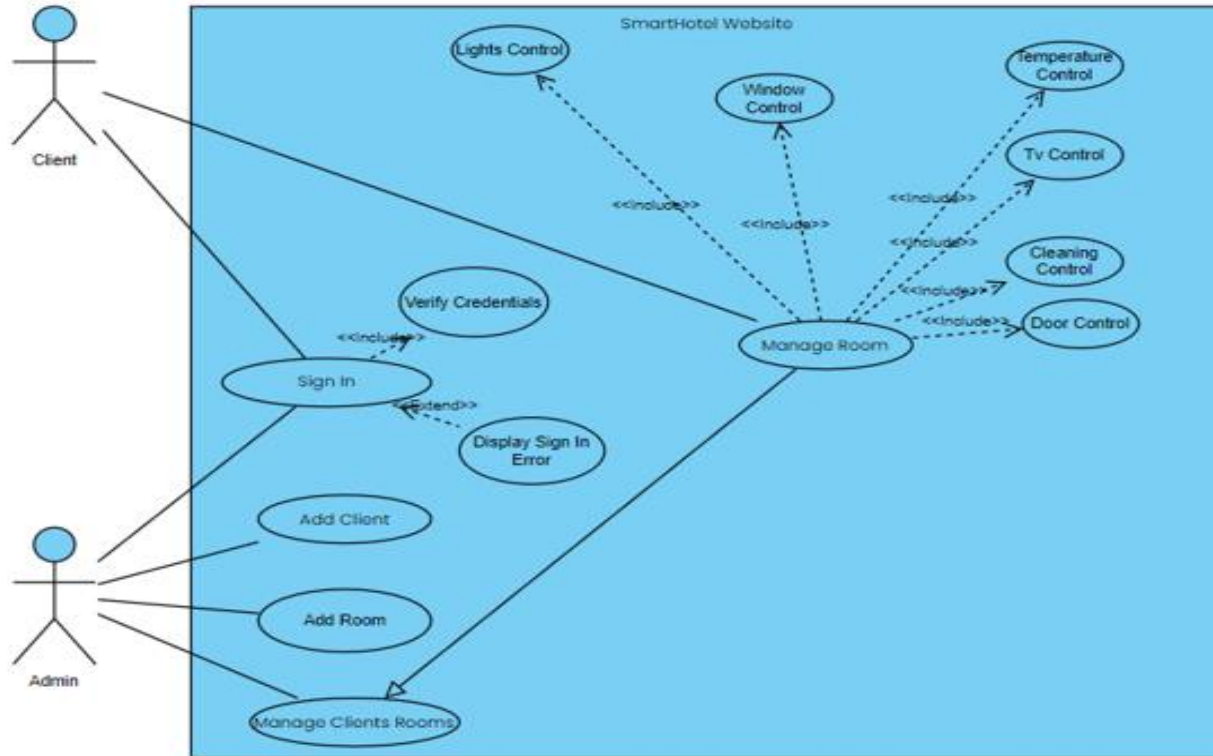
02

HOW

Use Case diagram
Project Overview

USE CASE DIAGRAM

PROJECT OVERVIEW

System Features:

- **Role-Based Access Control**: Ensures that admins and clients have access to features specific to their roles.
- **Room Management**: Allows admins to add, view, and control all rooms in the hotel.
- **Client Management**: Enables admins to add new clients and manage their information.
- **Room Control for Clients**: Provides clients with the ability to control various aspects of their room environment.
- **User Authentication**: Secure sign-in functionality that redirects users to appropriate dashboards based on their roles.

PROJECT OVERVIEW

FRONT-END

HTML, CSS, JAVASCRIPT

HOSTING DATABSE

FIREBASE - FIRESTORE

BUILD TOOL

MAVEN (+NPM)

PROJECT OVERVIEW - TEAMWORK

Mara

Client interface + JS + Firestore connection

Indi

Admin interface + JS + Firestore connection

Why we chose to share the work this way?

For both of us:
-    to practice our HTML, CSS knowledge
-    to learn javascript, and how to integrate it in a web app
-    to learn new tools: like maven, github, firebase + firestore

GIT HUB

Mara

43

Indi

26

Total: **69** commits

186

Files

03

NEXT?

Future Plans
Testing

WHAT COULD WE IMPROVE?

FORM VALIDATION

Existing users/rooms are not verified when created

A THIRD ROLE

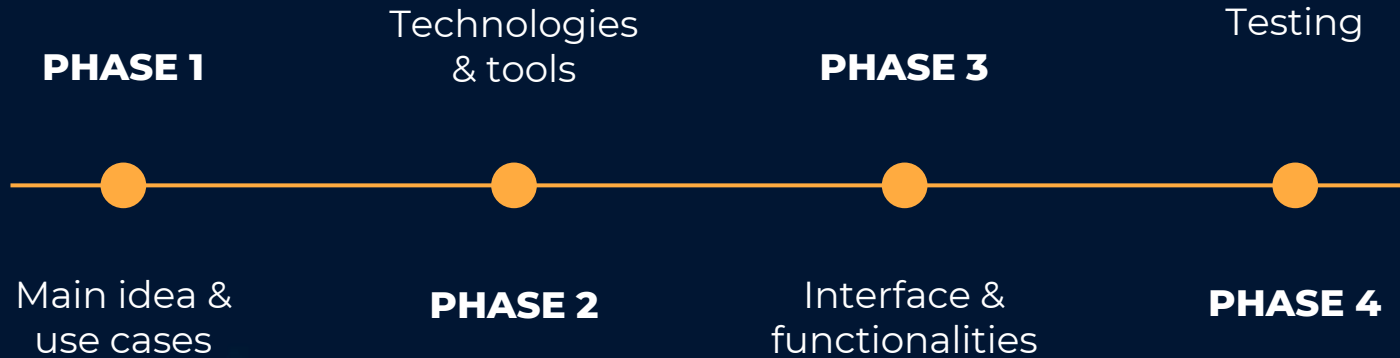The staff should have limited access compared to the admin

DELETE CLIENTS

Automatic deletion of the clients when they leave the hotel

CUSTOMIZABLE ROOMS

Admin should create more types of rooms

TESTING

PHASE 1

Technologies & tools

PHASE 3

Testing

Main idea & use cases

PHASE 2

Interface & functionalities

PHASE 4

WHAT WOULD WE TEST?

Java classes & methods

JAVA

Database integrity

FIRESTORE

Javascript

JS

Portability & applicability

HTML, CSS

ON LONG TERM...

- We will create a more generalized front-end that will connect through APIs with the database & the back-end
- We will try to connect it with the physical part (hardware)