# SMART HOME AUTOMATION SYSTEM

**Group Members**

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BSE 7 C

## Project Definition

A **Smart Home Automation System** is a technology solution designed to automate and remotely control household appliances and systems such as lighting, heating, security, and entertainment devices. It enables users to manage their home environment efficiently and securely using mobile apps, web platforms, or voice commands, often through real-time communication with IoT-enabled devices.

## Vision Statement

For residents who want to make the maintenance and work of the houses easier and better, the Smart Home System is a system which includes all kinds of smart appliances and gadgets that help the resident with their daily lives. Unlike the current existing systems, our product satisfies all the necessary needs of the person with a single system.

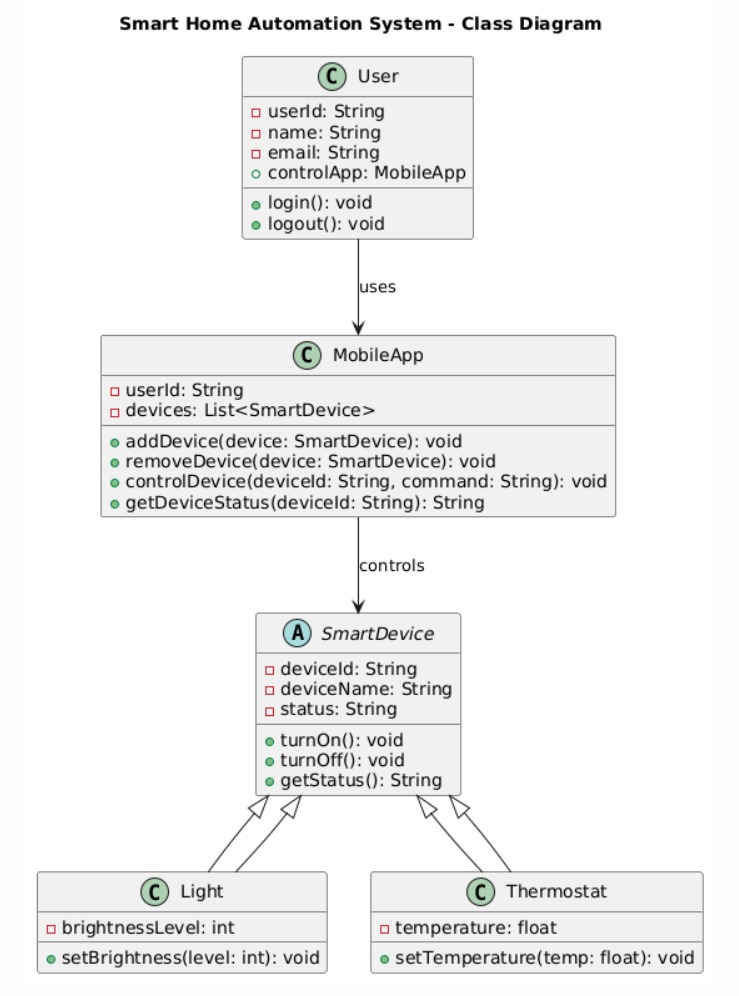
## FR & NFR

Functional Requirements:  
1) Light sensors that turn on when a person enters room or opens a cupboard.  
2) Temperature controller for house.  
3) Smart refrigerator which checks what ingredients we need to buy.  
4) Voice assistant.  
5) Air conditioner system with energy saving.

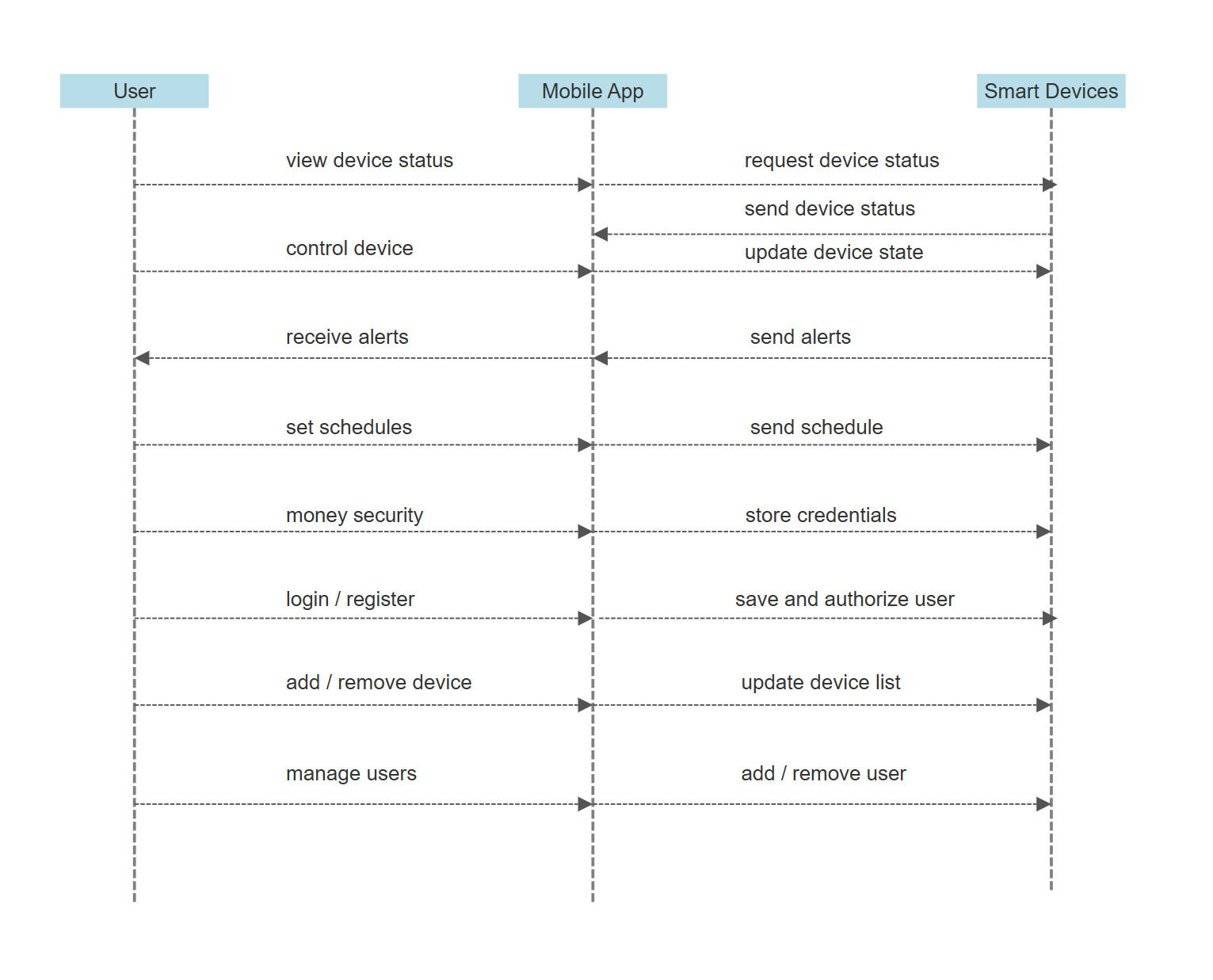
Non-Functional Requirements:  
1) Sustainability  
2) Efficiency  
3) Usability  
4) Performance  
5) Maintainability

## Uml Diagrams

### Class Diagram



### Sequence Diagram



### Context Diagram

A diagram of a smart home system

AI-generated content may be incorrect.

### Use Case Diagram

A diagram of a smart home automation system

AI-generated content may be incorrect.

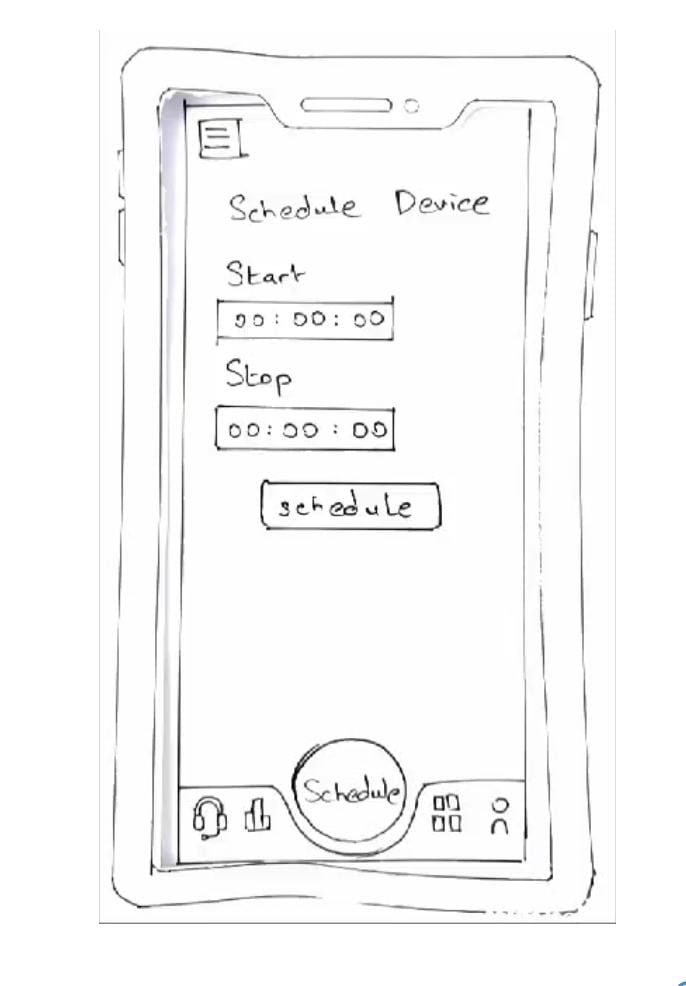
## Low Fidelity Prototypes

A drawing of a house on a phone

AI-generated content may be incorrect.A white phone with a login screen

AI-generated content may be incorrect.A drawing of a phone

AI-generated content may be incorrect.A drawing of a graph on a tablet

AI-generated content may be incorrect.

## High Fidelity Prototypes

A close-up of a house

AI-generated content may be incorrect.A login screen with purple and white text

AI-generated content may be incorrect.A screenshot of a cell phone

AI-generated content may be incorrect.A screenshot of a schedule device

AI-generated content may be incorrect.

## Github Link

<https://github.com/eesh1234/SHAS>