

# Supplementary Specifications:

## **Introduction**

This document is the repository of all Home Automation requirements not captured in the use cases.

## **Security:**

### *Authenticate Users*

Each user will be required to sign in on the mobile application in order to access the system. This sign-in will require a username and password.

### *Secure the server as single point of failure*

The server will be the only aspect of the system connected to the internet in order to prevent outside access to any of the components.

### *Ensure a secure connection between the systems*

The data is encrypted before it is sent to devices. This includes commands, requests, and passwords.

## **Usability:**

### *Support multiple users*

The system will support multiple users within the same house. A user interaction cannot override another user's interaction.

### *Accessible to the outside the network*

The system must be accessible from outside the network. This would allow users to turn on lights while not currently being in the building.

## **Recoverability:**

### *Logging and Error Handling*

All errors will be logged to persistent storage. This will include crashes and fail user log-ins.