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.