

Project: Smart Home Hub (SHH) v1.0

The Smart Home Hub (SHH) will be a central control unit for a user's home automation devices. The system will allow users to control lights, thermostats, and security cameras from a single, unified interface. A key user need is the ability to receive **real-time notifications and alerts** on their smartphone whenever a security event is detected (e.g., a door opens unexpectedly). This is a critical feature for users who are away from home and need peace of mind. The system will rely on Wi-Fi for all communication.