

Hardware

Node (wall unit)

Microcontroller  
Motion Sensor  
Wifi Module  
Relay  
Transformer  
Current Sensor  
Switch/Button  
Status Led

Hub

Raspberry Pi  
Wifi Module (source)  
SD Card  
Power Adapter

Software

Web Server

User Authentication (Security)  
User Interface  
Hub Communication  
Light Control (Manual)  
\*Rules  
\*Scheduling  
\*Statistics

Light Control  
Commands

Statuses

Hub

Server Communication  
Node Communication  
Node Connection (WiFi setup)

Status

Light Control  
Command

Node

Light Control (Switch/Button)  
Light Control (From Server)  
Hub Communication  
Motion Sensor  
\*Current Sensor