Java Technical Document

Infrastructure
The backend is handled by the SmartHome, Room, and SmartPlug
Within Smarthome a array of every room is available with the room ID being its index within the rooms array. An array of every SmartPlug is also available with the plug ID being the index within the plugs array. An array of every available device is also stored.

The frontend is handled by ConsoleHelper and Dashboard. ConsoleHelper provides basic print and input methods and dashboard handles the main with a setup stage and running stage.

When data is initialised at the start, smartplugs and rooms are cycled through in a list and data about them is entered/selected from options by the user

Room & Plug Combinations
Within the SmartPlug class there is an assigned room variable which stores the id of the room which is combined with the room name on the displayPlug method of SmartHome. It is done this way to keep all arrays central in SmartHome.

User interface
All inputs are integer based aside from room and device names

Language
Was coded in Java

Exception Handling
Try/catch was not used, no other handling was required

Libraries
The only library used was Scanner.

Complexity and Extra Functionality
No complexity or extra functionality was included.