**Home Automation Case Study**

**Abstract:**

Controlling of the doors in a home, Hotel, temple, shopping malls, cinemas, hospitals or any public places which have door facility. An automatic door open and close system is simple project, which automatically opens and closes the door by detecting number of persons or objects in a room.

**Step1: Purpose & Requirement Specifications**

* Purpose:

Home automation system that allows the “Controlling of the door in a public place”.

* Behaviour:

The home automation system should have auto and manual modes.

* In Auto Mode:

The system measures the count of members in a room and open, close when the limited members in a room.

* In Manual Mode:

The system provides the options of manually open and closing of a door.

* Requirements:

1. System management requirements
2. Data Analysis requirements
3. Application Deployment requirements
4. Security requirements(authentication)

Process Specification

Domain Model Specifications

Information Model Specifications

Service Specifications

Level Specifications

Functional View Specifications

Operational View Specifications

Device & Component Integration

Application Development