1 Introduction

1.1 PURPOSE

THE PURPOSE OF THE SOFTWARE REQUIREMENTS SPECIFICATION IS TO OUTLINE THE REQUIREMENTS FOR THE MODEL OF SMART HOUSE . OUR SMART HOUSE WILL BE BUILT ON MYSQL, PHP, C LANGUAGE , ANDROID AND ARDUINO. IT WILL SHOW HOW TO CONTROL THE HOUSE SYSTEM FROM MOBIE PHONE/WEB

1.2 SCOPE

Control the House outside and wireless

1.3 DEFINITIONS, ACRONYMNS, ABBREVIATIONS

// alphabetical list of terms and their descriptions

// This is part of analysis and you must make sure you describe terms used in this document

Term	Description
SH	Smart House
MySQL	The database that will be used for this project

1.4 REFERENCES

http://www.w3schools.com/

https://www.arduino.cc/

https://www.youtube.com/

1.5 OVERVIEW

This document contains all of the software requirement specifics. It contains a general description of the types of users who will be using our application, how it is going to work, and what technologies we are using to make it work. We will also outline and describe specific components of the project.

2 Overall Description

Control the House(Model)

2.1 PRODUCT PERSPECTIVE

This covers a wide variety of machines, including operating systems Mac OS X, Windows and Linux. The sole requirement for the user is a web browser (Safari, Firefox or Chrome) with an active internet connection.

2.1.1 Concept of Operations

We will use arduino to connect all needed objects, arduino will receive inputs form our sql, everything will be changed to “1 or 0” , “true or false”.

2.1.2 Major User Interfaces

Our interface does not ready yet (we are working under php and sql)

2.1.2.1 Example Screenshot and description

Our interface does not ready yet (we are working under php and sql)

2.1.3 Hardware Interfaces

Arduino kit, mobile phone, PC(web browser), sensors.

2.1.4 Software Interfaces

// example: CGI-URL or function signatures etc (OMIT for now).

2.1.5 Communication Interfaces

WI-FI (arduino), internet (browser)

2.1.6 Memory Constraints

Flash 32k bytes

SRAM 2k bytes

EEPROM 1k byte

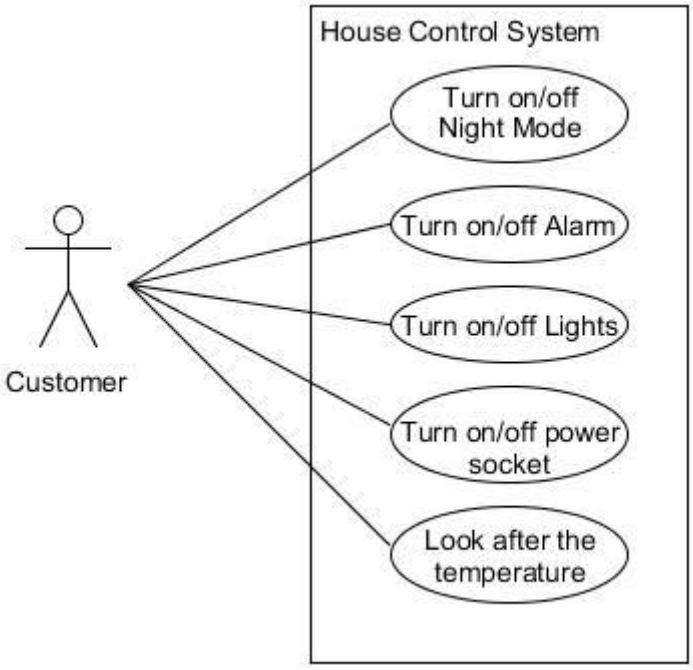
2.1.7 Operations

// special operations (if any) (OMIT for now)

2.1.8 Site Adaptation Requirements

//ex: Japanese language etc (OMIT for now)

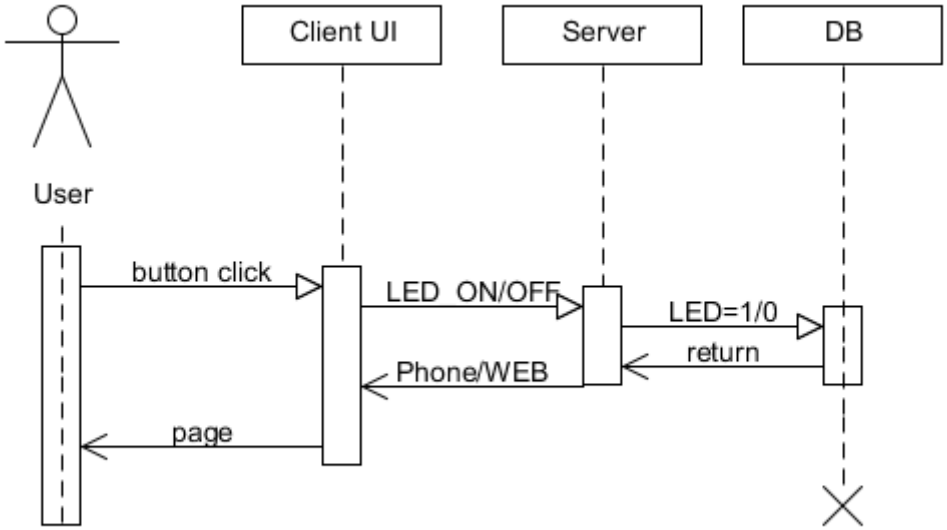
2.2 PRODUCT FUNCTIONS



Actor is Customer:

User will have buttons to do what they want, showed below

2.2.1 Example use case



When the user click the button,our SQL will have input, and chek it. After this output will be sent to our arduino(pin)

2.3 USER CHARACTERISTICS

People who always at work, and do not have housewife

2.4 CONSTRAINTS

This program will work with virtually any system that can connect to the internet and browse web pages.

2.5 ASSUMPTIONS AND DEPENDENCIES

architectural diagrams need to be complete before the foundations

inputs and outputs should be written before building and programming