VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JNANA SANGAMA", BELGAVI-590018

A Mini Project Report on

"INDIVIDUAL ROOM POWER APPLIANCES INFORMATION SYSTEM"

Submitted in Partial Fulfilment of Fifth Semester Database Management System
Laboratory(17CSL58) in Computer Science And Engineering

Submitted by

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2019-20

CERTIFICATE

This is to certify that **Ms.** Kavitha Nadig B D **USN:4GH16CS020, Ms. Amreeza B A** USN:4GH17CS007, **Ms.Bhoomika M** USN:4GH17CS012 **Ms. Poojitha L D** USN:4GH17CS03 has satisfactorily implemented the mini project titled **TRAINING AND PLACEMENT MANAGEMENT SYSTEM** in the fifth semester DBMS Laboratory with mini project (17CSL58) as per the requirements of Visveswaraya Technological University, Belagavi for the academic year 2019-2020.

Mr.Annaiahh H   Miss.Priyanka H L

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Name of the Examiners	**External viva**	**Signature with date**
1.		
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ACKNOWLEDGEMENT

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Project Associates

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DECLARATION

We, Kavitha Nadig B D, Amreeza B, Bhoomika M and Poojitha L D students of fifth semester B.E , CS&E ,Government Engineering College, **USN 4GH16CS020 , USN 4GH17CS007, USN 4GH17CS012 and 4GHA7CS031** hereby declare that the project titled "**INDIVIDUAL ROOM POWER APPLIANCES INFORMATION SYSTEM**" has been carried out by us under the supervision of **Mr.Annaiah.H** ,Assistant professor, Dept of CS&E, **Ms.Priyanka.H.L**, Assistant professor, Dept of CS&E submitted in partial fulfilment of the requirements for the award of the degree of computer science and engineering by the Visveswaraya technological university during the academic year 2019-20. This report has not been submitted to any other organization/university for any award of degree certificate.

Declared By

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ABSTRACT

The E-PLACEMENT is a web based application developed in windows platform for the placement department of the college in order to provide the details of its students in a database for the companies to their process of recruitment provided with a proper login.

The system contains all the information about the students. The system stores all the personal information of the students and their technical skills that are required in the CV to be sent to a company. The system is an online application that can be accessed throughout the organization and outside as well with proper login provided.

The system can used for college to manage the student information with regards to placement details. This project contains all the details of the students that can be viewed by all the users (read only), but can be modified only by the student with an authorized service. The students can update their own information only. Students can search for the material required for the selection process for placement papers.

Events happening in the college and the achievements of the student's i.e. selected students' details can be viewed by all the users. So, our project provides a facility of maintaining the details of the students, and gets the requested list of candidates for the companies who would like to recruit the people based on a given query.

CONTENTS:

INTRODUCTION

Problem Statement:

This project is aimed at developing an online application for management of electronic appliances like electric bulbs, electric fans in each and every room present int the college. The system is an online application that can be accessed throughout the organization and outside as well with proper login provided. This system can be used as an application for the Resource management of the college to manage the resource information with regards to electronic appliances. Data about the appliances are stored and maintained for the proper management of the same.

1.1. PURPOSE

For the purpose management of electronic appliances in colleges, It involves manual management involving storing details of all the electronic appliances of the particular room of the college in written document or dairy.

If any modification is required that is to be also done manually. So, to reduce the job required to manage details about the electronic appliances, a new system is proposed which is processed through computers.

1.2. SCOPE:

The project covers a wide scope. The information of all the appliances can be stored. Electronic appliances are categorized according to various types like Fan, Tube light etc. The management team of the college can access the information through web portal.

- Login
- View available appliances
- Updates by the Admin
- View Updates in dashboard

2. HARDWARE AND SOFTWARE REQUIREMENTS

Hardware Specification:

Processor	Intel Pentium or higher
RAM	1GB
Hard Disk	4GB (Minimum)

Software Specification:

Operation System	Linux, Windows
Front End	HTML, CSS, PHP
Back End	MySQL
Server Scripting Language	PHP
Web Server	Apache (Xampp) Web server
Web Browser	Google Chrome, Mozilla Firefox

3. INTRODUCTION TO PHP, HTML, MySQL and Apache Web Server

Introduction to PHP:

PHP for Hypertext Pre-processor. Program written in PHP must be saved with file extension. PHP in the root directory of the web server, to execute PHP programs we need a web server called "Apache Web Server". User communicates with dynamic web page so that they get the customized information. MySQL access the data generated by using a dynamic web page. HTML can also combine/embed PHP tags. PHP language is a user friendly and coding of PHP language is easy compare to other language.

PHP is close to Perl and JavaScript; PHP arrays are different from other language and are then introduced by a description of PHP's function and their parameter passing

mechanisms. PHP is developed, and support as an open-source. A PHP processor is now resident on most web servers.

PHP is a server side, XHTML script language. As its alternative CGI, Microsoft Server Pages. When the browser request an XHTML document includes PHP script, the Web server that provides the document includes PHP script the filename extension. When PHP processor fined XHTML code it input file, it simply copies to the output file.

PHP is the interpreted, as the case with JavaScript. Recent PHP implementations perform pre-compilation, at least on complex script, which increase speed of interpretation. There is a large collection of the function for creating and manipulating PHP's array. PHP supports both procedural and object-oriented programming. Many of predefined functions are used to the provide interfaces to the other software system such as mail and database system.

Introduction to MYSQL:

It is available for all widely used computing platforms. MySQL software and documentation can be downloaded from http://www.mysql.org. Some Linux system distributions, such as the one from Red Hat, include MySQL. Once you have successfully logged into MySQL, it is ready to receive command. If the MySQL, database to be accessed already exists but its name was not included when logging into they use command can be used to focus on the database of interest.

If a new database is to be created, the database itself must be created first and then the tables that will make the tables. The other MySQL commands that are needed here- INSERT, SELECT, DROP, UPDATE and DELETE- are all the implementations of the corresponding SQL commands.
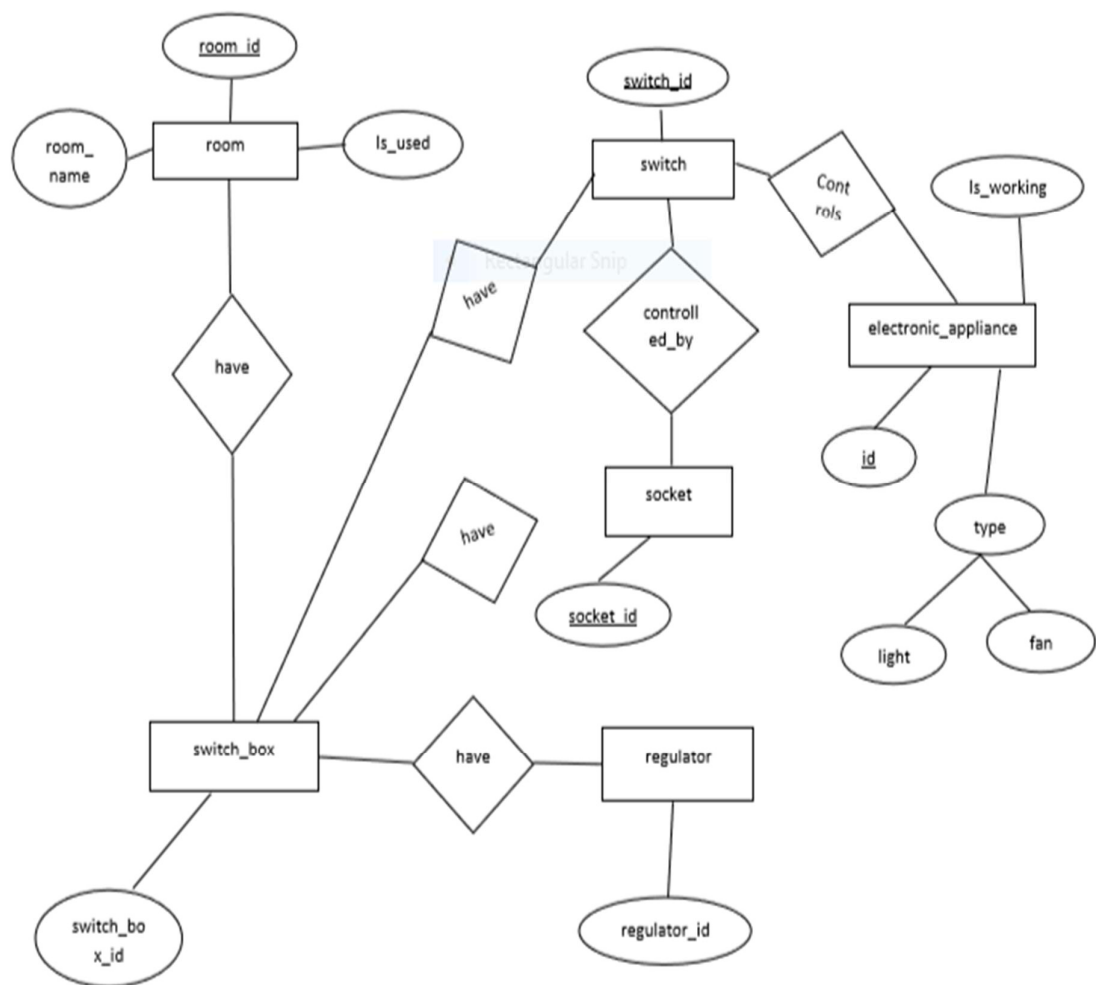
Introduction to Apache web server:

The Apache HTTP Server is web server which we used to run our project and this server provides the built in MySQL there is no need of using the command prompt. Apache web server we need to install only we can execute the project. Apache web server provides local host to run our project. Apache web server which provides web applications. Apache plays a main role in our project execution. It is the most important and most popular server which provides World Wide Web growth. It works for millions of web sites all over.
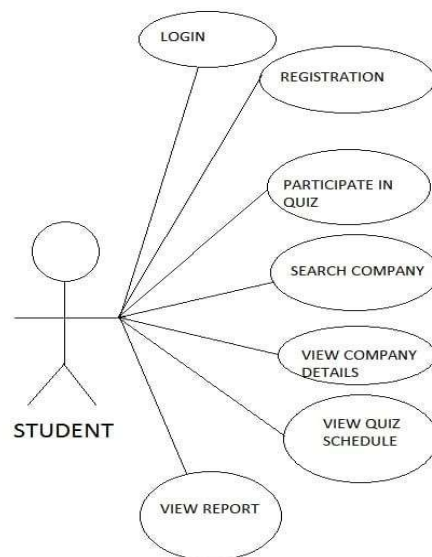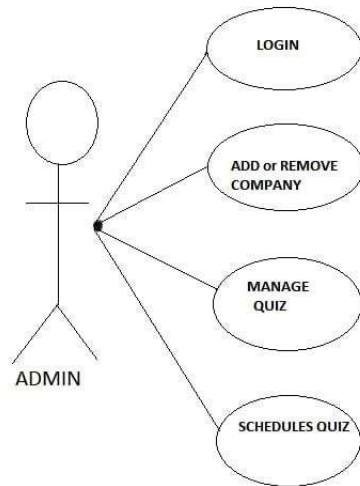
Apache web server is handled by Apache Foundation. Apache web server provides service to many of operating system including UNIX, LINUX, and Microsoft Windows. Apache server is very good server which provides very well service to our chosen platforms and apache is well comfortable with PHP language and works well with PHP language and even server side scripting language is used in this to perform and develop the project.

Apache supports different features to perform operation and even apache server is also supported by some graphical user interface and Apache server implements the security and digital certificates security.

4. ER DIAGRAM

5.USE CASE DIAGRAM

6. Snapshots:

6.1. Home page

6.2. Room search page

6.3. Appliance List page

Switch Id	Regulator Id	Appliance Name	Appliances Id	socket number
s15	1	FAN	31	
s16	2	fan	2	
s17	3	fan	3	
s21	4	fan	4	
s22	5	fan	5	
s1				1
s2				2
s10		light	29	
s11		light	30	
s12		light	10	
s13		light	11	
s14		light	12	
s3		light	9	
s4		light	20	
s5		light	24	
s6		light	25	
s7		light	26	
s8		light	27	

Conclusion

The main goal of the project is to bring in the management of the electronic appliances of the college from manual method to automatic through web. The details of the appliances can be stored and manipulated with the help of a web portal.

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