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**Department of Computer Science and Engineering**

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## Report on Mini Project

# Service Apartment Database System

**Course code: 18CS502**

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## **ABSTRACT**

The main objective of this application is to help the construction industry users to manage the operations and activities of apartments. This is a simple user interface developed using .net technology. It helps the user to keep track of all the sales, purchases, Billing, invoices, maintenance related information of the different apartments of a particular construction firm. It helps the construction companies to reduce the cost of maintaining these records.

There will be a robust database which stores all the data related to these various apartments, their maintenance related information etc. It helps to keep track of all the payments done by customers towards maintenance advances or purchases etc. This tool will ease the user to manage huge data of different customers who own apartments from the same builder. It will record the date of purchase, the amount paid, the mode of payment. It shall also have the data related to the installment the user has opted for. For the maintenance part of the interface it shall have the data of all the maintenance charges paid by the customers, whether its done quarterly or annually. It also records the mode of payment. It will also hold all the details such as the apartment number, the area of the house (sq. ft.) bought etc.

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## INTRODUCTION

- ◆ This project provided a stimulus recipe of an investigative summary researching the productivity afforded by employing the use of technology in helping make the most out of our day to day situations.
- ◆ The service apartment management system for employee information within the hotel, room information to management and customer information, and online reservations and other basic functions.
- ◆ Convenience for the apartment business and Based on B / S mode , including the establishment And maintenance of both the front-end application development and back-end databases,
- ◆ Hotel basic information queries , the hotel 's room availability, As a hotel manager , at any time use hotel server for hotel operators , the use of given web hotel management system to make business decisions , hotel operators can log in , operation of hotel management background through Web server

## PROBLEM STATEMENT

Web application for Hotel reservation. We will take the selection criteria from user and display the hotels list for user basing on the criteria. User can book the room if there is availability of the rooms in that particular hotel. There are three different types of user roles for the application they are administrator , hotel agent and normal user. Following are the actions provided for each user.

## OBJECTIVES

The primary aim of this project is to automate the process of day to day activities of apartment operation like room activities, admission of new customers, assign of rooms according to the customer demand, check-in,check-out,bill details.

- 🕒 Proper room allocation to the customer according to the demand.
- 🕒 Nutritious and healthy breakfast to customers.
- 🕒 24Hours check-in and check-out facilities.
- 🕒 Wifi and gym facilities are provided to the customers.

## SOFTWARE REQUIREMENTS

**Front end** – HTML, CSS, Java Script, Bootstrap

**Database** – MySQL(PHPMyAdmin)

**Back end** – PHP

Source code and Database are managed using Visual Studio Code & XAMPP Control Panel

## LITERATURE REVIEW

### ➤ **Comprehensiveness**

Complete institutional coverage with respect to organization and functions as provided at the closest possible point of knowledge.

### ➤ **Currentness**

Accuracy of static information enhanced by the currentness of changing information.

### ➤ **Client-Oriented**

Responsiveness to requests from the viewing audience by providing e-mail connections.

### ➤ **Clarity over Coolness**

Simplicity of page design and directness of hyperlink pathways take precedence over visual techniques that clutter or compromise presentation.

### ➤ **Courtesy over Coolness**

The length of time required for a page to load useful information is reasonable.

### ➤ **Compatibility without Compromise**

Sensitivity to and support of different browser environments.

### ➤ **Cross-Linking and Validation**

Multiple access paths to the same information with a method in place to check the validity of site-wide links.

## **METHODOLOGY**

### **HTML**

HTML is a hypertext markup language which is in reality a backbone of any website. Every website can't be structured without the knowledge of html. If we make our web page only with the help of html, than we can't add many of the effective features in a web page, for making a web page more effective we use various platforms such as CSS. So here we are using this language to make our web pages more effective as well as efficient. And to make our web pages dynamic we are using Java script.

### **CSS**

CSS Stands for "Cascading Style Sheet." Cascading style sheets are used to format the layout of Web pages. They can be used to define text styles, table sizes, and other aspects of Web pages that previously could only be defined in a page's HTML. The basic purpose of CSS is to separate the content of a web document (written in any markup language) from its presentation (that is written using Cascading Style Sheets). There are lots of benefits that one can extract through CSS like improved content accessibility, better flexibility and moreover, CSS gives a level of control over various presentation characteristics of the document. It also helps in reducing the complexity and helps in saving overall presentation time.

### **JAVA SCRIPT**

JavaScript is considered to be one of the most famous scripting languages of all time. JavaScript, by definition, is a Scripting Language of the World Wide Web. JavaScript is one of the most popular scripting languages and that is why it is supported by almost all web browsers available today like Firefox, We used the browser Opera or Internet Explorer. It is often used for the development of client-side web development. JavaScript is used to make web pages more interactive and dynamic. JavaScript is a light weight programming language and it is embedded directly into the HTML code. JavaScript, as the name suggests, was influenced by many languages, especially Java.

## **BOOTSTRAP**

Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains CSS- and (optionally) JavaScript based design templates for typography, forms, buttons, navigation, and other interface components. Bootstrap is a HTML, CSS & JS Library that focuses on simplifying the development of informative web pages (as opposed to web apps). The primary purpose of adding it to a web project is to apply Bootstrap's choices of color, size, font and layout to that project. As such, the primary factor is whether the developers in charge find those choices to their liking. Once added to a project, Bootstrap provides basic style definitions for all HTML elements. For example, Bootstrap has provisioned for light- and dark-colored tables, page headings, more prominent pull quotes, and text with a highlight.

## **PHP**

PHP is a very powerful server-side scripting language for developing dynamic web applications. Using PHP, one can build interactive and dynamic websites with ease. PHP script can be embedded straight into the heart of html code. PHP is compatible with various web servers like Apache and the Microsoft's IIS as well. All the PHP scripts are executed on the server and it supports various databases like MySQL, Oracle, Solid, Generic ODBC etc; however, it is mostly used with MySQL.

## **MySQL**

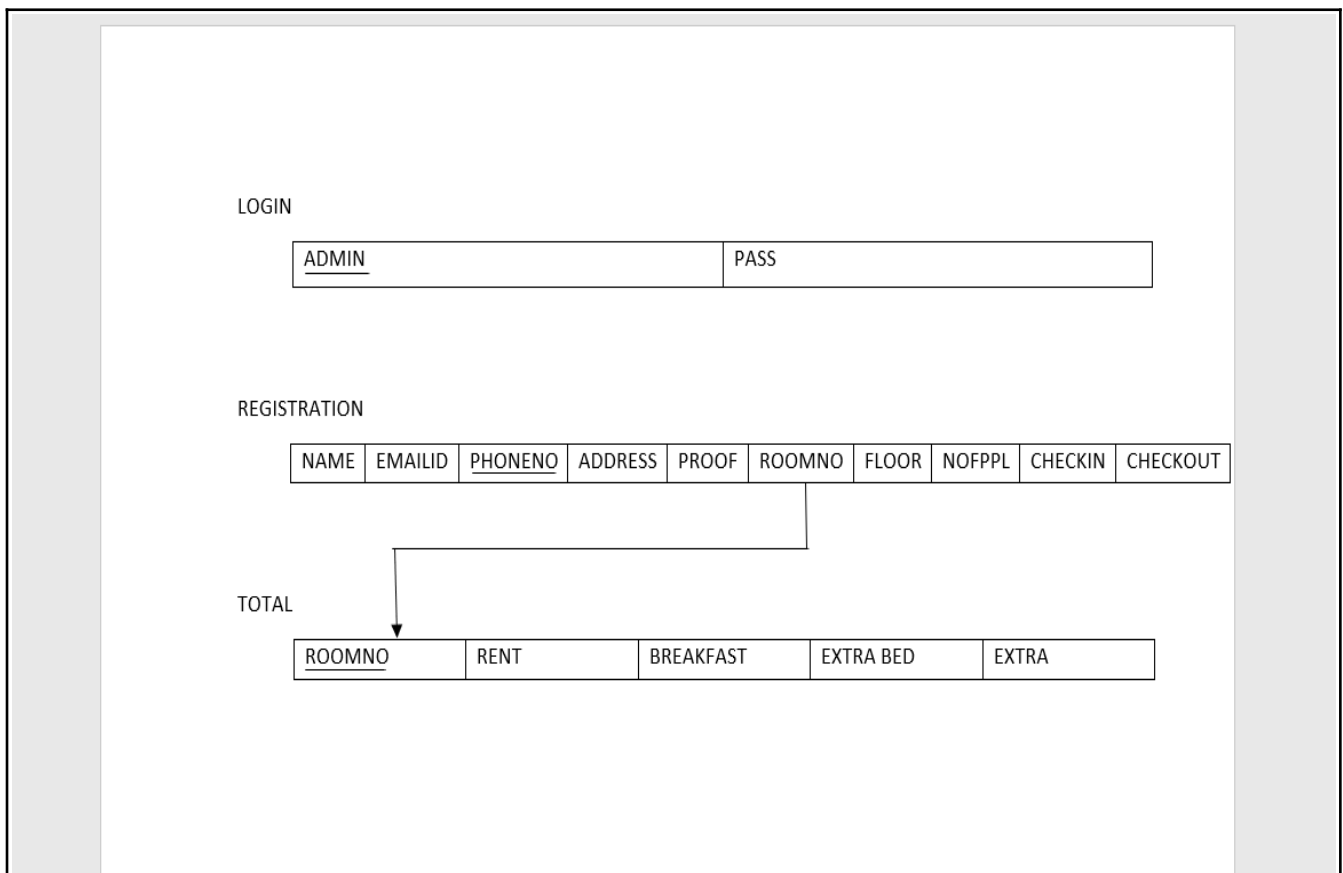
MySQL is the world's most widely used open source Relational Database Management System (RDBMS) that runs as a server providing multi-user access to a number of databases. The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL was owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation. MySQL is a popular choice of database for use in web applications, and is a central development of the widely used LAMP open source web application software stack.

## IMPLEMENTATION

Following relations represents service apartment database

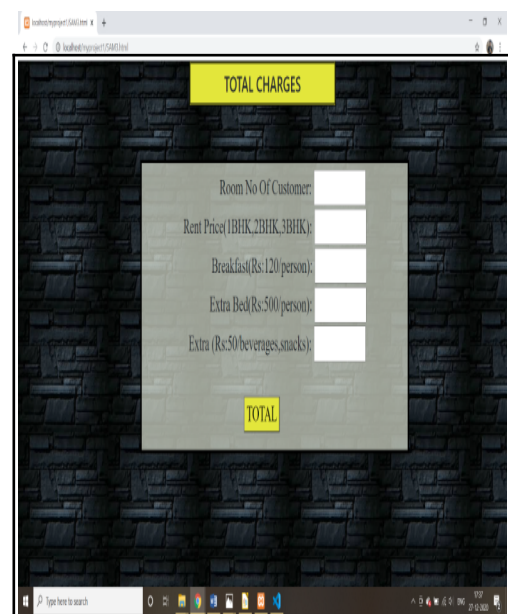
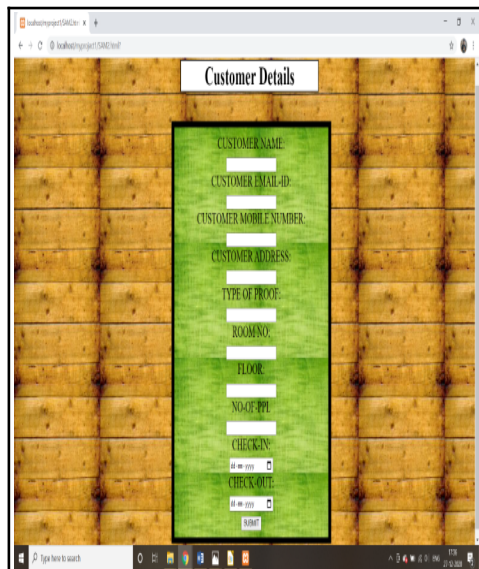
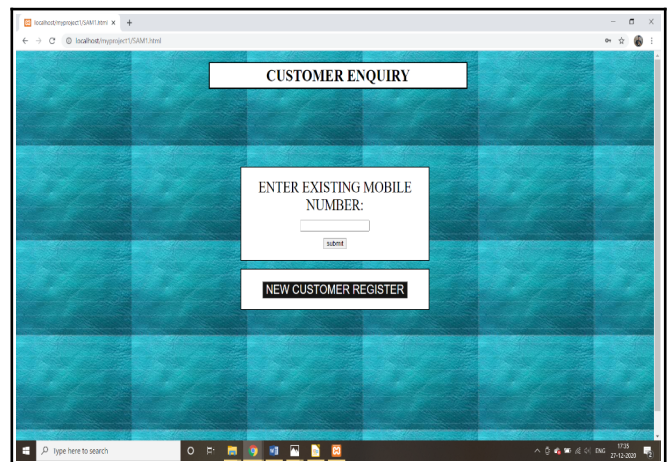
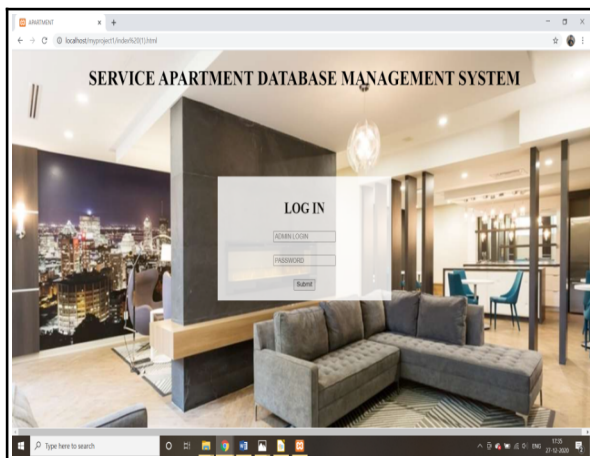
1. **Login** ( admin#: int, pass: string );
2. **Registration** ( name: string, emailid: string, phoneno: int, address: varchar, proof: varchar, Roomno: int, floor: int, nofppl: int, checkin: date, checkout: date);
3. **Total** ( roomno#: int,rent: int,breakfast: int,extrabed: int, extra :int);

### Schema:





# RESULTS



## CONCLUSION AND FUTURE SCOPE

- ◆ For better understanding, an interface and website can be made available in different languages (regional languages).
- ◆ For the ease of use, an application can be built for the same.
- ◆ The site can be developed for the beneficiaries to check the commodities available.

## REFERENCES

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