

# **HOTEL MANAGEMENT SYSTEM**

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2019

# HOTEL MANAGEMENT SYSTEM



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BSCS-2B

FINAL PROJECT

2019

## **ABSTRACT**

As the name specifies “HOTEL MANAGEMENT SYSTEM” is software developed for managing various activities in the hotel. For the past few years the number of hotels are increasing for the people. Hence, there is a lot of stress on the owner and the employees of the hotel and because such software is not usually used in this context. Our project particularly deals with the problems on managing a hotel and avoids the problems which occur when carried manually. We can improve the efficiency of the system. Our project provide us the following advantages that have less human error, strength and stress of manual labor can be reduced, high security, data redundancy can be avoided to some extent, data consistency, easy to handle, easy data updating, easy record keeping and backup data can be easily generated.

## **ACKNOWLEDGMENT**

We student of SMIU ( BSCS-2B) First of all will like to thank the superme power the Almighty Allah who is obviously one has always guided us to walk on the right path of the life. Without his grace this project will not become a reality. We would to like to express our sincere gratitude to **Ms. Saima Sipy Nang raj** for providing her guidance, comments and suggetions for this task. Secondly we would also like to thanks our parents for their support and giving us the hope that we can do our best in it. Lastly I would like to apologize all the unnamed who helped us in variuos ways for their good training. We have no valuable words to express our thanks, but our hearts are still full of favour recived from every person.

## **1. INTRODUCTION:**

We had tried our best to make our project (Hotel Management System) as simple as possible using the structure of Object Oriented Language. We have tried to design the Project in such a way that user may not have any difficulty in using our program. Even though we cannot claim that this work to be entirely exhaustive the main purpose of our exercise is to perform each employee's activity in computerized way rather than manually which is time consuming. We are confident that this software package can be readily used by non-programming person. Our project is a desktop-based program. We have taken utmost care to make the system of *Ventana Inn* efficient and user friendly. The frontend of our program is Visual Basic, and the Backend is SQL. The name of our hotel is *Ventana Inn*.

### **1.1 Features of Our Program:**

The administrators can maintain daily updates in the managing the system. Some of the features which our program offers are as under:

- Separate Login for both kitchen & reservation table
- Universal Search field where you can search using any data type
- Add/edit/update/delete an entry
- Room Availability & Reservation
- Credit card & Debit card verification
- Reservation with complete details
- Overview of Reservations from all hotel rooms in *datagridview*

### **1.2 Problem Definition:**

Ventana Inn Offers many accommodations to our Guest such as meals, rooms and other facilities: Some of the accommodations are as follows:

a. Rooms:

Category	Per Hour
Single bedroom	Rs. 1000
Double bedroom	Rs. 2000

Triple bedroom	Rs. 3000
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b. Food and Menu:

The meals are offered with Special needs such as Towels, Cleaning, sweetest surprise.

Per Quality	Item	Cost
1	Breakfast	\$7
1	Lunch	\$15
1	Dinner	\$15

We have tried to make the system of Ventana Inn a computerized system, which would:

1. Be friendlier to the staff.
2. Improve our guest care and service at the hotel.
3. Increase the hotel performance.
4. Reduce the operational cost of the hotel.

### **1.3. Project Overview:**

Our Project Ventana Inn is a type of a system that makes easier for the employee to manage his/her hotel in an efficient manner. During past Years it was difficult to manage the big business like an hotel manually, to resolve such issue many technologies are arising to make the system more convenient and user-friendly. In easy words we can say that the summary of our project is to

- Simplify the large volume of data
- View activity details directly and easily.
- Compare information from different activities.
- Gain time in managing your work.
- Access project activities quickly and easily.
- Control and monitor the our hotel easily.

## **1.4. Software Specification:**

### ***1.4.1 Visual Basic (GUI)***

VISUAL BASIC is a high level programming language which evolved from the earlier DOS version called BASIC. BASIC means Beginners All-purpose Symbolic Instruction Code. It is a very easy programming language to learn. The code look a lot like English Language. Different software companies produced different versions of BASIC such as Microsoft QBASIC QUICKBASIC GWBASIC IBM BASICA and so on. However people prefer to use Microsoft Visual Basic today as it is a well developed programming language and supporting resources are available everywhere. Now there are many versions of VB exist in the market the most popular one and still widely used by many VB programmers is none other than Visual Basic 6. We also have VB.net VB2005 VB2008 and the latest VB2010. Both Vb2008 and VB2010 are fully object oriented programming OOP language. VISUAL BASIC is a VISUAL and events driven Programming Language.

### **WINDOW FORM BASIC:**

Windows forms application is one that runs on the desktop computer. Windows forms application will normally have a collection of controls such as labels, textboxes, list boxes, etc. Next is an example of a simple Windows form application. It shows a simpleLogin screen, which is accessible by the user. The user will enter the requiredcredentials and then will click the Login button to proceed.

In our Project we have used the following tools:

1. Label
2. DataGrid View
3. CheckBox
4. Button
5. Picture image
6. Text Box
7. Panel
8. Date time Picker
9. Combo box



## 10. Group

### **1.4.2 SQL(Database)**

Microsoft SQL Server is a relational database management system developed by Microsoft. As a database server, it is a software product with the primary function of storing and retrieving data as requested by other software applications—which may run either on the same computer or on another computer across a network (including the Internet).

Microsoft markets at least a dozen different editions of Microsoft SQL Server, aimed at different audiences and for workloads ranging from small single-machine applications to large Internet-facing applications with many concurrent users.

### **1.4.3. XAMPP**

Xamp a free and open-source cross-platform web server solution stack package developed by Apache Friends,<sup>[2]</sup> consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages. Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server possible.

XAMPP's ease of deployment means a WAMP or LAMP stack can be installed quickly and simply on an operating system by a developer. With the advantage a number of common add-in applications such as Wordpress and Joomla! can also be installed with similar ease using Bitnami.

We have use database to store the personal information of our guest such as

The following information is gathered at the Reception:

Variable	Data type	Length
1. Name	Varchar	50
2. Father name	Varchar	50
3. Birthday	Varchar	50
4. Gender	Char	10

5. Email	Varchar	100
6. Address	Varchar	100
7. City	Varchar	100
8. Zip Code	Varchar	50
9. Entry date	Int	50
10. Departure date	Int	50
11. ID	Varchar	50
12. Phone number	Int	100

The following information is gathered when u order something:

Variable	Data type	Length
1. Name	Varchar	50
2. Id	Varchar	50
3. Phone number	Int	100
4. Floor	Int	50
5. Room type	Varchar	100
6. Room number	Int	100

## **2. LITERATURE REVIEW**

### **2.1 Proposed system:**

#### ***2.1.1 Scope of the System:***

The system will cover; Registration, accommodation, meals, and accounts details. Moreover, our program is efficiently handled by the system. To help the system smoothly carry out its intended purpose to meet the hotel management needs, the following tables will be used to store data:

##### **1. Registration table.**

The table contains the personal details of a guest. These details help uniquely identify the guest and book for them a suitable room and services offered for the room. These details include: (Father name, Name, id card no, Telephone, City, Email, Zip Code, Gender, date of Birth).

##### **2. Meals table**

The table contains the hotels catering transactions information. This information is vital as this department is the backbone of any hotel aspiring to achieve its goals and realize its maximum potential. The table contains the following records:(name, ID, phone number, floor, room type, room number, payment). The system will enable automatic calculation of the total amount charged for the meals offered to guests. Room service refers to provision of meals to guests in their rooms. Room service is charged 5% of the charge of the meal.

#### ***2.1.2 Objective of the System:***

- To enable automated data entry methods.
- Ensure efficient and reliable communication within the hotel.
- Avoid data entry errors by use of input masks.
- Enable easy authorized modification of data.
- Enforce security measures to avoid unauthorized access to guest records.
- Enable fast and easy retrieval of guest records and data for fast reference activities.

### ***2.1.3. Advantage Of our System:***

We have designed the given proposed system in the VB to automate the process of Hotels. This project is useful for the authorities which keep track of all the users registered in our Ventanna Inn. The following steps that give the detailed information of the need of proposed system are:

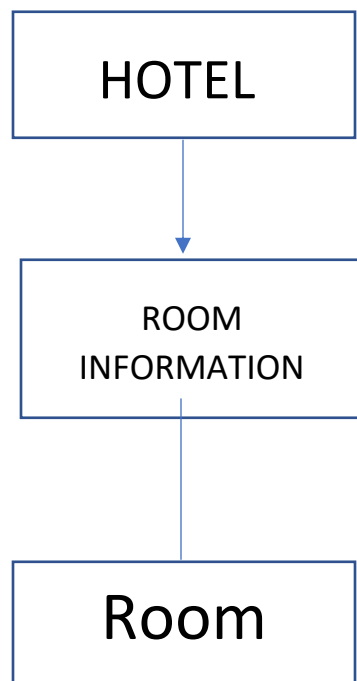
**Performance:** During past several decades the records are supposed to be manually handled for all activities. The manual handling of the record is time consuming and highly prone to error. To improve the performance of the Hotel Management System the computerized system is to be undertaken. This project is fully computerized and user friendly even that any of the members can see the report and status of the company.

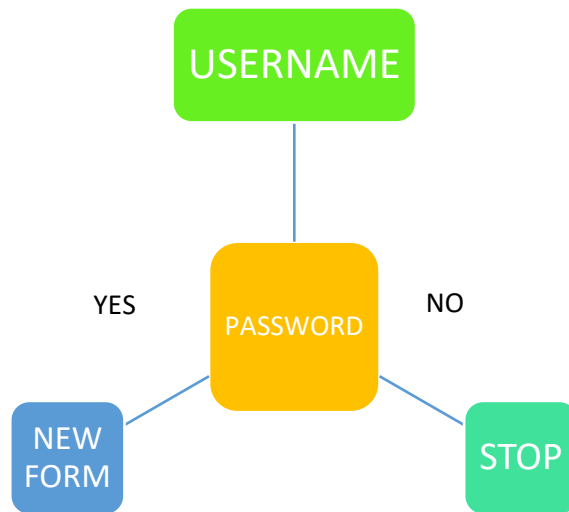
**Efficiency:** The basic need of this project is efficiency. The project should be efficient so that whenever a new user submits his/her details the project is updated automatically. This record will be useful for other users instantly.

**Control:** The complete control of the project is under the hands of authorized person who has the password to access this project and illegal access is not supposed to deal with.

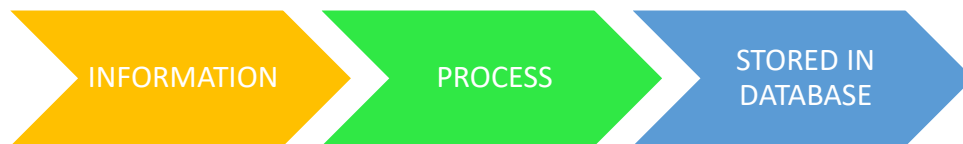
## **3. SYSTEM ANALYSIS:**

### **3.1 FLOWCHART**





HOW TO STORE DATA :



## 6. CONCLUSION

This project is designed to meet the requirements of Online Hotel Management. It has been developed in VB Mas-Access keeping in mind the specifications of the system. For designing the system we have used simple data flow diagrams. Overall the project teaches us the essential skills like

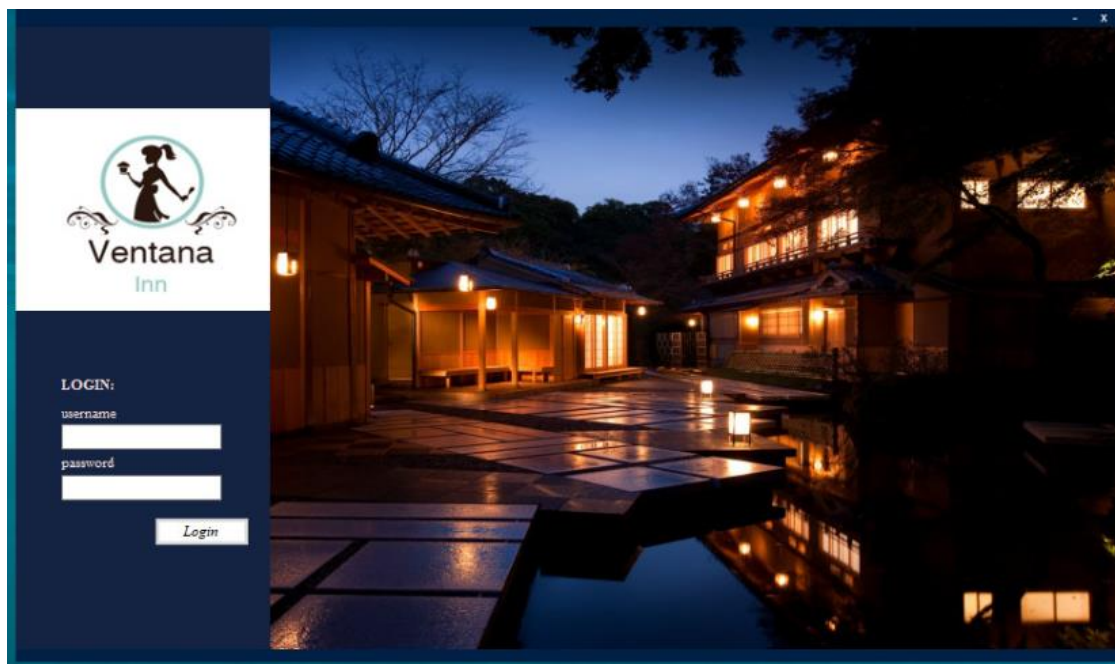
- ♣ Using system analysis and design techniques like data flow diagram in designing the system
- ♣ Understanding the database handling and query processing.

## 5. APPENDICES

### 6.1 Glossary

1. Date time Picker
2. Combo box
3. Label
4. DataGrind View
5. CheckBox
6. Button
7. Radio Button
8. Picture image
9. Text Box
10. Panel
11. Group
12. Varchar
13. INT
14. Char

### 6.2 Results :



# Frontend

---

Reservation

Universal search

Reservation Adv.view

Room availability

Log Out

Name

First Last

Birthday

Day Month Year

Gender

Phone number

00000000000000000000

Your e-mail address

First.last@example.com

Street address

123 Broadway

apt/suite

XX

State Zip code

New York 10001

Your choice

# of guest

Room type

Capacity

floor

Floor#

Room num

Room#

Entry [date]

Tuesday April 30, 2019

Departure [date]

Tuesday May 21, 2019


☐ Reserve

Food and Menu

☐ Check in ?   ☐ Send sms ?

Finalize bill

Submit



Ventana Inn

check into another world

Edit existing Reservation

New reservation

# Frontend

---

Reservation

Universal search

Reservation Adv.view

Room availability

Log Out

Search

# Frontend

Reservation

Universal search

Reservation Adv.view

Room availability

Log Out

Occupied

Roomnumber	Roomtype	ID
Room#	Capacity	1
Room#	Capacity	2
Room#	Capacity	3
Room#	Capacity	4
Room#	Capacity	5
Room#	Capacity	6
Room#	Capacity	7
Room#	Capacity	8
Room#	Capacity	9
Room#	Capacity	10
Room#	Capacity	11
Room#	Capacity	12
Room#	Capacity	13
Room#	Capacity	14
Room#	Capacity	15
Room#	Capacity	16
Room#	Capacity	17
Room#	Capacity	18
Room#	Capacity	19
Room#	Capacity	20
Room#	Capacity	21

Reserved

Roomnumber	Roomtype	ID	Fin
001	Triple	2	ash
Room#	Capacity	3	gh
002	Single	4	ash
002	Double	5	hj
001	Double	6	adr
001	Single	7	hjh

# Kitchen Service

TOOO\*

Overview

Log Out

Name

First Last

Phone Number

xxxxxxxxxxxx

Room Type Floor#

Room Type Floor#

Room #

Room #

Breakfast [QTY]

Breakfast

Lunch [QTY]

Lunch

Dinner [QTY]

Dinner

☐ Cleaning
 ☐ Towel

☐ Sweet Surprise

☐ Food Supply status

Change food section?


On the line


LIST

Update changes



Kitchen Service

 1000\*

 Overview

Log Out

	Firstname	Lastname	Phonenumber	Roomnumber	Roomtype	Floor	Breakfast
*							