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Hotel Management System

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<u>ACKNOWLEDGEMENT</u>

This is "HOTEL MANAGEMENT SYSTEM" project based on new techniques and based on new idea. This is totally different and beneficial for other to easily use and understand. This Software provides fresher processing of any query and make information up–to–date. In this project "HOTEL MANAGEMENT SYSTEM", main three database files are maintained named "Room details, Customer details, Rent details". In Customer detail file, all customers' related information is described. Customer name, Customer id, and room number can do searching.

When Customer enters in hotel all facilities required to a customer are provided . Room maintenance facility is also considered in this project.

Rent details file contains the rent information about each room. Automation of billing system is this project. Automation of restaurant is also attached in this project. There are three options for customer's choice. First is lunch second is Dinner the third is Breakfast. Each option contains a list of items within it so that a customer can select any item according to their choice...

I express my deep sense of gratitude to my beloved faculty/guide **Mr. Pradip Vanpariya & Mr. Keyur Zala** for the valuable guidance and suggestions, keen interest and through encouragement extended throughout period of project work.

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JUSTIFICATION OF PROJECT :

This software is built up top meet need of a computerized "HOTEL MANAGEMENT SYSTEM".

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and make information up–to–date. In this project "HOTEL MANAGEMENT" ,main three database files are maintained named " Room details, Customer details, Rent details". In Customer detail file, all customers related information is described. Customer name, Customer id, and room number can do searching.

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Plateform used windows operating system:

►Multi-user operating system, which can be used for networking.

► Provides GUI environment to the user for networking.

► Several versions are there like…..

- Window 3.X

- Window 95

- Window 98

- Window NT

- Window ME

- Window XP

❖ <u>HARDWARE</u>: ---

For running our project titled "<u>HOTEL MANAGEMENT</u>", following minimum requirement of hardware has to be fulfilled.

► P IV OR HIGHER PROCESSOR.

► 512MB RAM

► STANDARD KEYBOARD.

► SVGA OR VGA monitor.

FEATURES OF THE OPERATING SYSTEM

❖ <u>**WINDOWS XP**</u>

The Windows operating system started with the introduction of Windows OS and Windows for work group for networking. Since then it has come a long way and windows 95,98,2000 family of operating systems were introduced. It is succeeded by windows Vista.

Windows XP is the most popular Operating system presently and has many features which make it the best. Some of its best features are:

- Windows File Protection: Protects core system files from being overwritten by application installations. If a file is overwritten, Windows File protection will restore the correct version.

- Windows Installer: A system service that helps users installs, configure, track, upgrade, and remove software programs correctly.

PROJECT DEFINITION

The project "Hotel Management System" is used for maintaining the information for each and every customer, employee, driver and product. Each and every customer has own personal details and the products are transferred through the driver. Before providing the product to customer, the administrator gathering necessary information about the product meanwhile the invoice is also raised for the customer product.

Feasibility Analysis:

The Hotel Manager software is a web-based application that is designed to be implemented for small to medium sized hotels. The privilege of creating this application as a web-based one is that it could be run by several offices within the hotel such as the front desk, managerial office, etc…

This software's objective is mainly to keep track of the hotel room's conditions if available, accommodated or even requires housekeeping or maintenance. The main objective is accompanied by several other services that are provided through the software features such as hotel airport shuttle services & taxi scheduling, restaurant reservations management, wake up calls alarms or even

laundry services organizer. Bill generation is one of the options as well that is provided by this software Upon providing such services the user is capable of accessing their hotel rooms database easily, while having useful information about their statuses; furthermore, being able to monitor the other services being provided for guests accommodating in the hotel.

Hotel Manager software would create a user-friendly interface, where any hotel employee would be able to use this software with basic computer skills. The software is developed using "Java" programming language, which makes the system conflict-free from running on any type of operating system

PROJECT OVERVIEW

This Project Hotel Management System is to design a web based system. Which facilitates on line reservation of hotel accommodations from anywhere in the world. In this project there are three modules .They are

1.Customer Module
2.Management module
3.Hotel Registration/Administration Module.

- **Customer Module:**

The Customer Module is again divided into two sub modules.

  o Customer Booking Module
  o Customer Services Module

  Customer Booking Module provides an interface to the user to view cities located in a selected country, hotels in the selected city. It also provides a view of all facilities and their corresponding costs available in that selected hotel. This module allows the user to select facilities of this choice and allows him to submit a reservation. Based on the choice made by the user the system displays an invoice from regarding bill, if he agrees for the bill he will be facilitated with an userid and password using which he can proceed for modifications in the future. Finally the system accepts the payment mode and

validates his mode of payment.

Customer Services module provides three services to the customer who has already reserved his accommodation with the system. The various services provided by the system are

1.look up the confirmed reservation.

2. Modify the reservation details like check in date, checkout date, number of rooms, room type etc.

3.cancel the reservation.

- **Management module**:

   Management module deals with the hotel room status administration and enable the hotel manager to enlist his hotel status with the system, to see the list of orders booked in his hotel, modify the number of rooms etc.

- **Hotel Reservation/administration module:**

   This module is again divided in to two sub modules namely

1.hotel registration module

2.hotel administration module

   Hotel registration module accepts hotel details like hotel name ,license number, administration number, its distance from airport, railway station, bus station ,its address, its hotel manager name etc. It

also accepts the facilities provided by the hotel and their corresponding costs. This system allots a unique hotel identity to each and every hotel and provides a password facility maintain secrecy of the hotel details.

Hotel administration module provides services like modifications in the hotel details and also provides an opportunity to with draw from the system.

PRELIMINARY INVESTIGATION

❖ Problem statement:

The project entitled Online Hotel Reservation is a web based system which facilitates online reservation of hotel accommodations from anywhere in the world. If a person wants to reserve his accommodation he would to know the list of hotels in the city he wants to visit, different amenities provided in each hotel the different types of rooms available, the rates of those rooms, the constraints of the hotel and finally the availability of the desired rooms on the desired rate.

He may achieve all this through travel agencies, the guides available, by making enquiries in person, by making enquiries through telephone. If he wants to make a choice between the hotels he has to repeat the whole process for anumber of hotels .After being satisfied with the choice he has to confirm his reservation by paying the

amount personally or through middle persons. This process is laborious and his choice is limited.

So we found the necessity of providing all the information and the facility to reserve his accommodation through the net so that maximum satisfaction is achieved by the customer with least effort. The solution we are providing to this is to design a website that contains information about various cities and the reputed hotels in each city along with the facilities, types of rooms and their rates. The tourist can also choose the hotel of his interest.

❖ FEASIBILITY STUDY

- Feasibility study conducted once the problem is clearly understood. Feasibility study is a high level capsule version of the entire system-analysis and design process. The objective is to determine quickly and at the minimum expense how to solve the problem and to determine the problem is solved. The system has been tested for feasibility in the following ways.

- Technical feasibility

- Operational feasibility

- Economical feasibility

Technical feasibility:

A study of function , performance and constraints may affect the ability to achieve an acceptable system so ,that necessary function and performance are achieved within the constraints uncovered during system analysis. The software developed for the automation of Hotel Reservation System is used in client server architecture with Ms Access as backend and .net1.3 as front end. Since the software is platform independent and has predefined functions and constraints such as to locate the charges, validating functions etc., so the project is technically feasible.

Operational feasibility:

The purpose of this project is to develop a Web based system which facilitates on line reservation of hotel accommodation from anywhere

in the world. The activities of the system such as data entry ,

information retrieval ,updating and deletion of records from various

tables etc are made easy .All the operators of this project are trained

in this area. So this project is operational feasible.

Economical feasibility:

Economic analysis includes a broad range of concerns that include

cost benefit analysis , long term cooperative income strategies, cost

of resources needed for development .In existing they had to

maintain a large number of books/registers is a costly affair. This can

be avoided by putting the data in the computer format that is cheaper

and reliable. Since the cost of resources for development of system

satisfies the organization, the software is economically feasible.

PROBLEM DEFINITION:

The purpose of this system is to provide the customer a facility to

reserve his accommodation through the net so that maximum satisfaction is achieved by the customer with least effort.

The system will also allow the customer to modify his reservation details of the booking already done. The system also provides an interface to the hotel administrators for enlisting themselves with the system, updating their current status of the facilities.

❖ SIGNIFICANCE

If a customer wants to know the list of hotels in the city, the different amenities provided in each hotel, types of rooms available ,the rate constraints, availability of desired types of rooms on desired dates, he has to approach a travel agencies or guides available or by making enquiries in person or making through telephone. If the customer wants to make a choice between the hotels he has to repeat the process for a number of hotels personally or through the middle persons which is a laborious process and choice is limited.

This is very unsatisfactory to the customer. So we found the necessity of providing all the information and the facility to reserve his accommodation through the net so that maximum satisfaction is achieved by the customer.

The solution we are providing to this is that we are developing a website that contains information about various cities and the reputed hotels in each city along with the facilities, types of rooms, their rates and also an interface to reserve his accommodation so that the

customer can choose the hotel of his interest.

OBJECTIVES

1. To enable the user to reserve his /her accommodation in a hotel anywhere in the world sitting at home through the internet.

2. To enable the user to look up his/her confirmed reservation or modify or cancel the reservation if required.

3. To allow the manager of the hotel to enlist his hotel with the system

4.To allows the manager of the hotel to scrutinize the list of orders and their details.

5. To allow the manager of the hotel to modify the hotel information from time to time.

JUSTIFICATION OF PROJECT

This software is built up top meet need of a computerized "HOTEL MANAGEMENT SYSTEM".

This is based on new techniques and based on new idea . This is totally different and beneficial for other to easily use and understand. This Software provides fresher processing of any query and make information up–to–date. In this project " HOTEL MANAGEMENT ",main three database files are maintained named " Room details, Customer details, Rent details". In Customer detail file, all customers related information is described . Customer name, Customer id, and room number can do searching .

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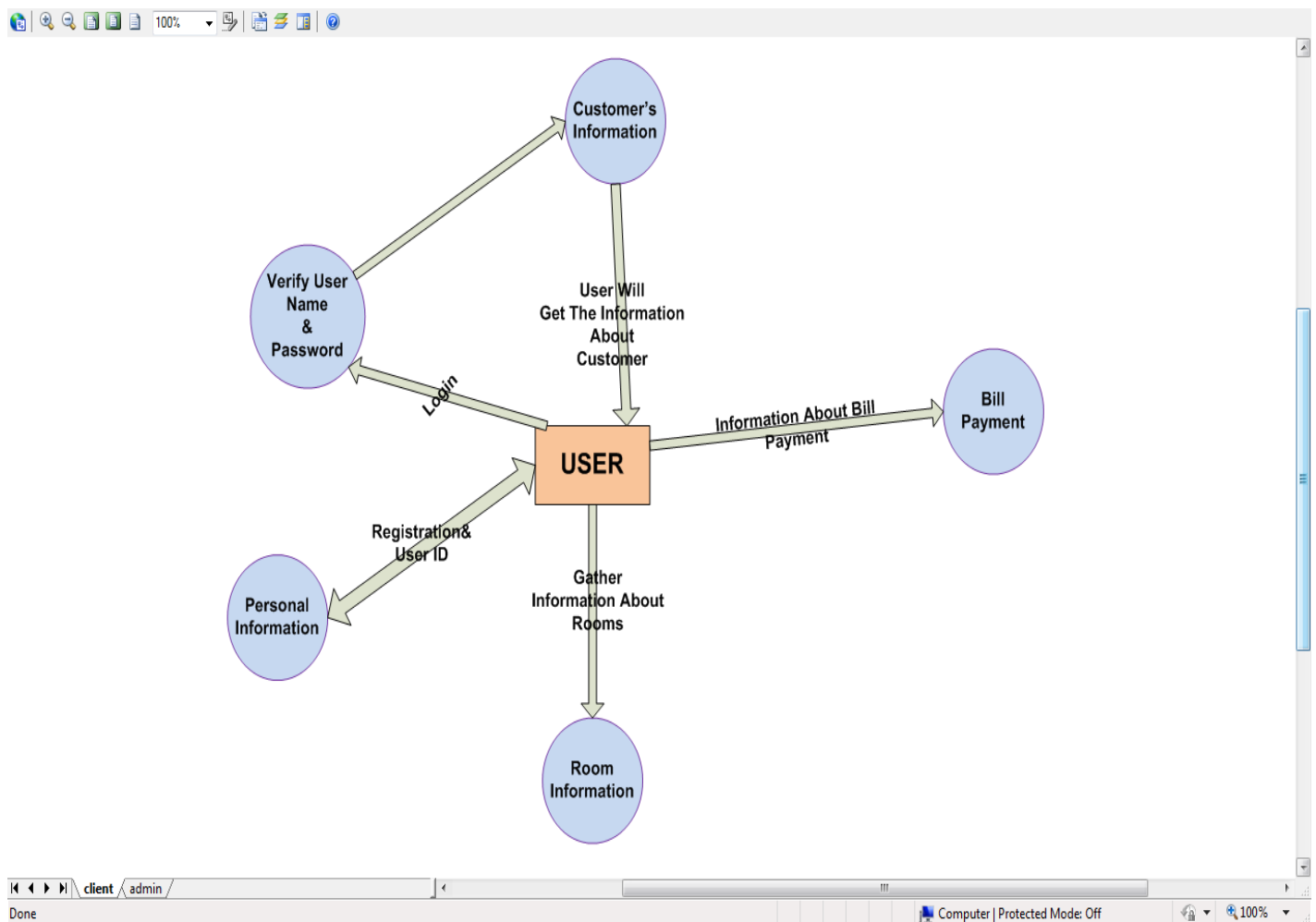
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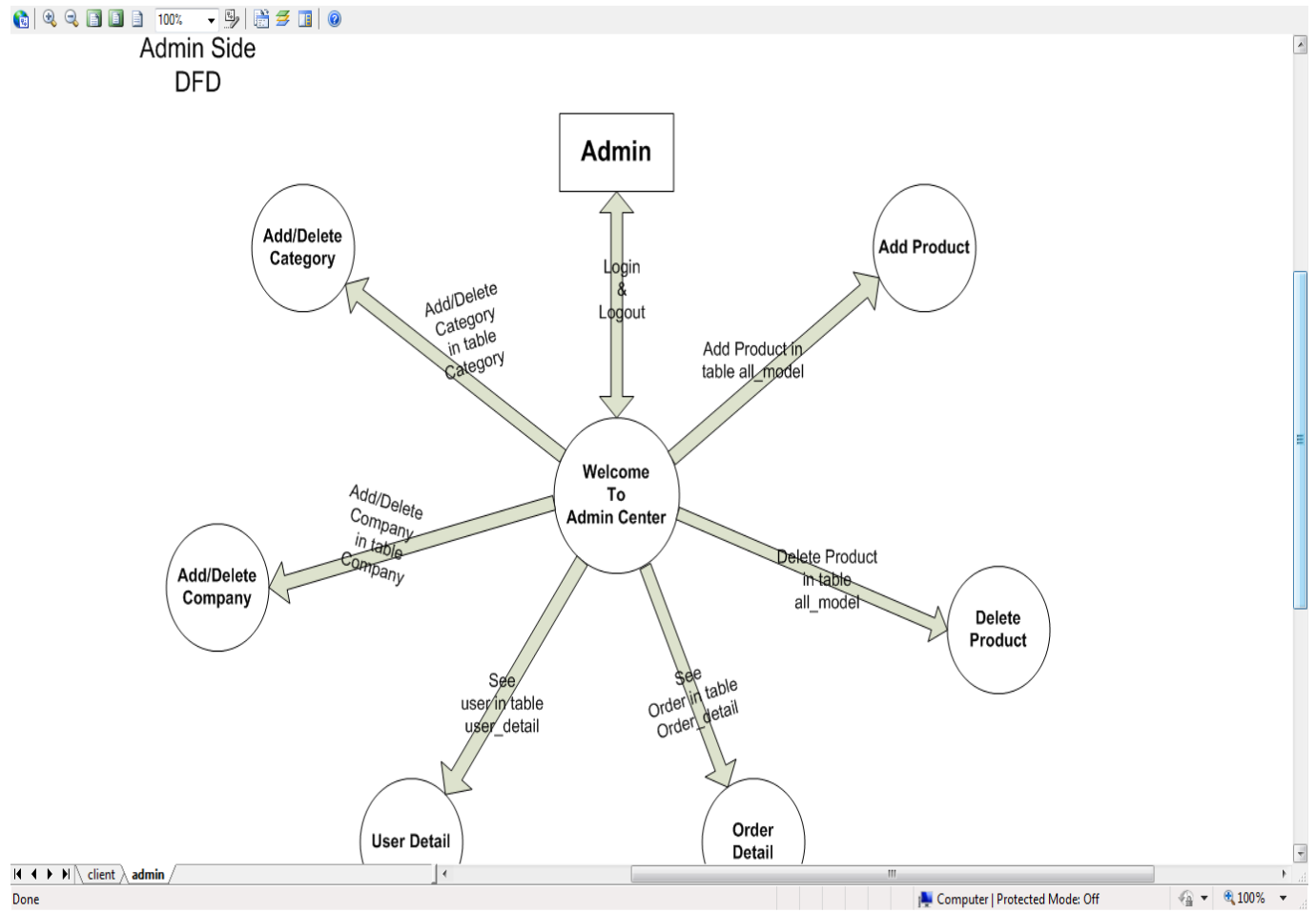
is Breakfast . Each option contains a list of items within it so
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DATA FLOW DIAGRAM

'1' LEVEL DFD

ER   DIAGRAM

Admin Side DFD

Admin

Add/Delete Category

Add Product

Login & Logout

Add/Delete Category in table Category

Add Product in table all_model

Welcome To Admin Center

Add/Delete Company in table Company

Delete Product in table all_model

Add/Delete Company

Delete Product

See user in table user_detail

See Order in table Order_detail

User Detail

Order Detail

DATABASE TABLE:--

- ## LOGIN

Field	Data Type	Constraints	Description
Username	varchar2 (50)		
Password	varchar2 (8)		

- ## Table: Customer

Field	Data Type	Constraints	Description
Customer_ID	int	Primary Key	Auto Increment
First Name	varchar2 (50)		
Last Name	varchar2 (50)		
Gender	varchar2 (50)		
Address	varchar2 (150)		
City	varchar2 (50)		
Country	varchar2 (50)		
Mobil_Phone	varchar2 (12)		
Card_no	int		
Room_No	int	Foreign Key	

- **Table: Room**

Field	Data Type	Constraints	Description
Room_No	int	Primary Key	Auto Increment
Room_Type	varchar2 (10)		
Floor	int		
Rate_Per_Day	int		

- **Table: Services**

Field	Data Type	Constraints	Description
Services_ID	int	Primary key	
Services_Detail	varchar2 (50)		
Servises_Charge	varchar2 (50)		

- **Table: Bill**

Field	Data Type	Constraints	Description
Bill_ID	int	Primary Key	Auto Increment
Customer_ID	int	Foreign Key	
Customer_Name	varchar2 (50)		
Room_No	int	Foreign Key	
Check_IN Date	datetime		
Check_IN Date	datetime		
ervices_ID	int	Foreign Key	
Rate_Per_Day	int		
TotalAmount	int		
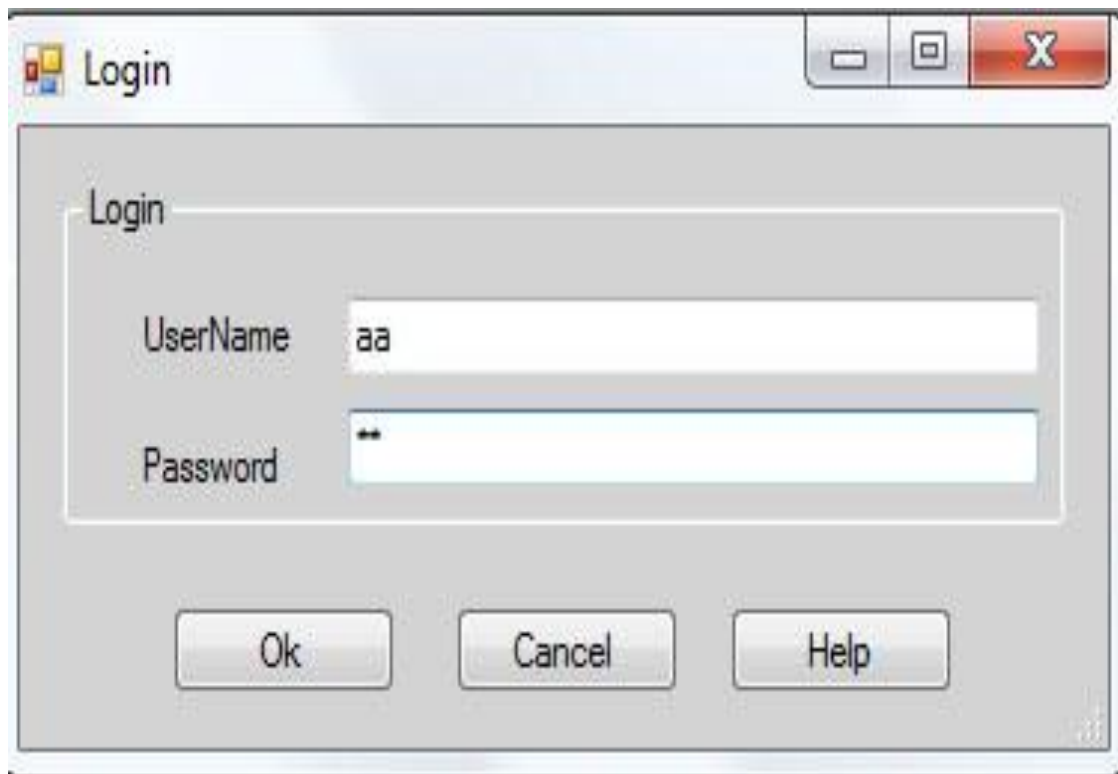
- This is a page of login page…..
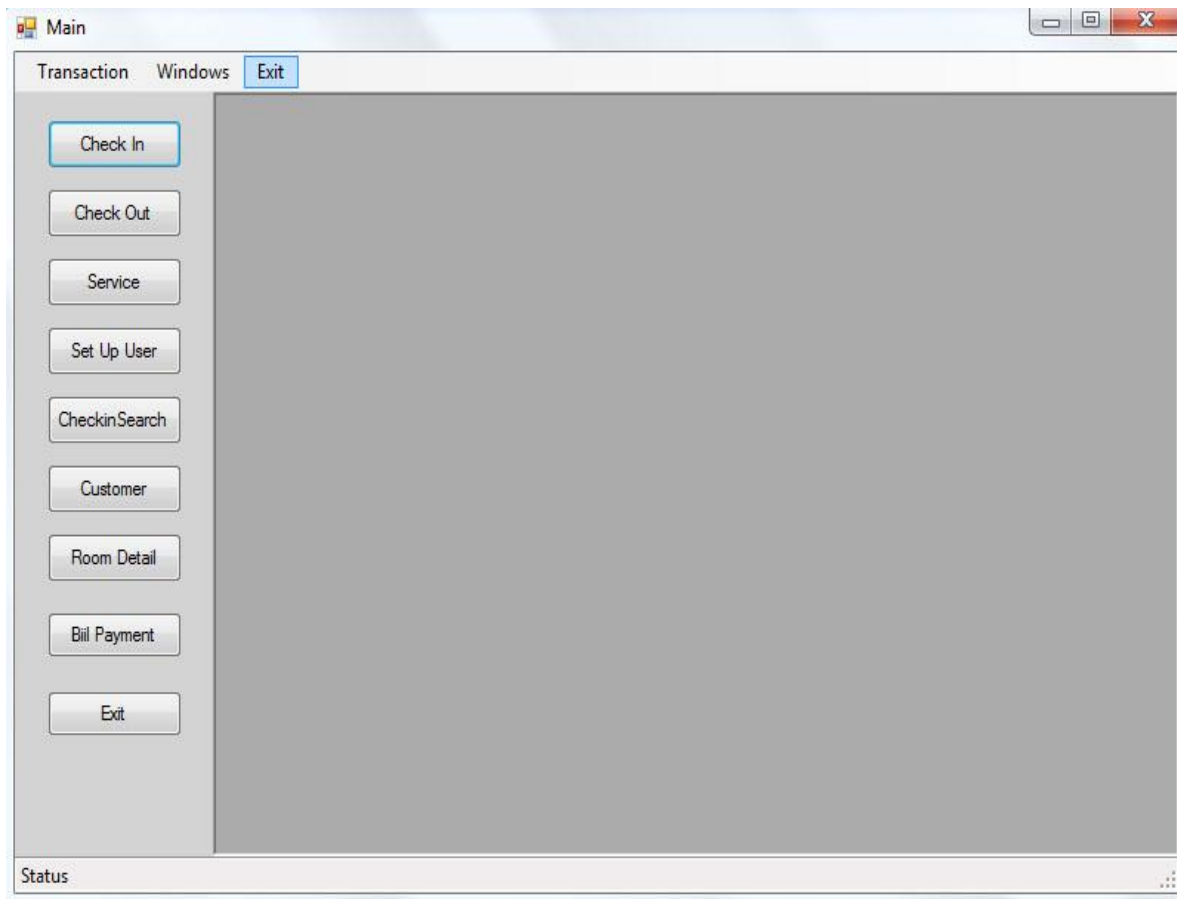
- This is main page of this project….

- This is page of check in were costumer's information were checked….

- This is page of room's information………

- This is page of service of hotel………..

- This is page of set up user……….

- This is page of bill payment…..

APPLICATION

➢ It stores customer details, Room details, Bill details etc.

➢ It provides you with facility to create backup of your current records.

➢ It provides various settings to administrators such as settings of full details of a customer. It provides powerful report generating facility.

➢ For the security purposes it can be very useful

➢ It can be widely used in many hotel whether it is big or small.

FUTURE SCOPE AND IMPROVEMENT

Hotel Management System is wide-ranging software suite incorporate

of integrated modules for various features of hotel management. Hotel

management System has all the features required to run your hotel,

motel and guest house business. Hotel Reservation Management

System offers an operational integration between reservations, guest

history, reception/ front desk, Sales Ledger, Accounting and Reporting

modules. Hotel reservation System is a system designed to simplify the

booking process and allow you to get on with running your business.

You can analyze the booking, reservation, checkin & checkout trends

and work towards your forthcoming future requirements. Managing

replication of customer records and record their comments on

hospitality. Make food allergy notes, record special events and birth

dates. Make your customers feel unique and special by recording

personal notes. Hotel & motel Reservation software is a program

designed to manage daily booking or checkin checkouts of guesthouse

or hotel rooms. It uses a MS Access database on backend database.

Reservations can be assigned to user defined rooms or sweets.

- **Main Features:**

• Customize Hotel rooms with prices

.   • Save the client's information into the database prior to Booking or

Checking for any forthcoming use.

CONCLUSION

This project has been successfully developed using the standard software development strategies that are followed in the Industry.

This project has been developed by our sincere effort. It has few useful features. Even though some limitations exist. According to the specified functionality, it will work in a proper manner. Through this project we have tried to make it user friendly to some extent. In this way, using this software a successful hotel can be run with a major achievement.

The outcome of the project is that it interacts with a user based on the chosen options.