A PROJECT REPORT

ON

HOTEL MANAGEMENT

Submitted

By

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In fulfilment for the award of the degree

Of

Bachelor of Computer Application

In

Computer Department

V.J. Modha Collage Porbandar

March, 2020

Acknowledgement

During the preparation of the project, we have a good fortune of receiving support, in various ways, from several personal, numerous to mention here. We owe a debt of gratitude to all of them.

It is our privilege to express our sincerest regards to our project coordinator, Lect. Zalak Thakkrar for their valuable inputs, able guidance, Encouragement, whole-hearted cooperation and constructive criticism throughout the duration of our project. We deeply express our sincere thanks to our Head of Department Prof. Vishal Pandya for encouraging and allowing us to present the project on the topic HOTEL MANAGEMENT.

It is our great pleasure to represent our project as Software titled "Hotel Management" and which we conceived in the 6th semester of B.C.A (Bachelor of Computer Application) B.K.M.N.U (Bhakta Kavi Narsinh Mehta University).

We take this opportunity to thank all our lecturers who have directly or indirectly helped our project. We pay our respects and love to our parents and all other family members and friends for their love and encouragement throughout our career. Last but not the least we express our thanks to our friends for their cooperation and support.

We are also thankful to the BKNMU (Bhakta Kavi Narsinh Mehta University). for including this project development subject in our syllabus. We got a golden opportunity to test and implement our creativity and programming skill simultaneously. Lastly, we would like to extend our sincere thanks to our advisors, classmates as well as all the books and websites who have directly or indirectly helped us.

DIVYESH RANPARIYA

Roll number: 51

Project Title: Hotel management software

Hotel Name: HAYATT PALACE

Project Language: Asp.net

Description:

The "HOTEL MANAGEMENT SYSTEM" project has been designed keeping in mind both employee and guest. for a guest to avail room he simply has to book room in mind both employee and guest. for a guest to avail room he simply has to book room and the checking in to the hotel. The task of maintaining the hotel rooms lies with the employee.

The employee has to perform 4 basic tasks:(1) Adding of room to the database (2) Maintain the Hotel rooms (3) Reserve rooms for guests

The hotel allows the guests to:

(1) Add rooms

(2) Maintaining rooms

(3) Reserving room

These features have been represented by functions in the program.

Adding new rooms to hotel: Which requires assigning room number, type of room whether Air-conditioned or Non-Air-conditioned current status of room whether free or reserved and charges of room per day.

Maintaining Rooms: in this option, employee can check the all information of all the rooms in hotel or a particular room by inputting room number and modify its details like changing status of room or the charges.

Reserving Room: here, at the employee can check if any free rooms are available in the hotel database and subsequently reserve it for the guest.

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Chapter No: 1

Introduction

1.1 Project Profile

1.2 Technology and Literature Review

1.1 Project Profile:

Project Title	: - Hotel Management
Front End	: - ASP.NET
Back End	: - MySQL
Collage Name	: - Shri V.J. Modha Collage
Project Guide	: - ZalakSir Thakrar
Project By	: - Divyesh Ranpariya

1.2 Technology & Literature Review

Front End:

- **ASP.NET**

What is ASP.NET?

ASP stands for Active Server Page. ASP.NET is an open-source, server-side web application framework designed for web development to produce dynamic web pages. It was developed by Microsoft to allow programmers to build dynamic web sites, web applications and web services

What Can ASP.NET Do?

There was a time when any Web developer with a basic knowledge of JavaScript could pick up the essentials of ASP Web development in a couple of hours. With ASP.NET, Microsoft's latest platform for Web application development, the bar has been raised.

Why ASP.net?

High speed, low cost, and vast language support are among the most significant benefits. ASP.NET also allows a developer to choose from many different development environments, also its popularity gives a developer ton of online resources when learning new things, or troubleshooting bugs.

❖ CSS

- **CSS** stands for **C**ascading **S**tyle **S**heets
- CSS **saves a lot of work**. It can control the layout of multiple Web pages all at once
- External Style Sheets are stored in **CSS files.**

Why Use CSS?

CSS is used to define styles for your web pages, including the design, layout and variations in display for different devices and screen sizes.

CSS Solved a Big Problem

HTML was NEVER intended to contain tags for formatting a web page. HTML was created to **describe the content** of a web page, like:

<h1>this is a heading</h1>

this is a paragraph.

When tags like <font>, and colour attributes were added to the HTML 3.2 specification, it started a nightmare for web developers. Development of large web sites, where fonts and colour information were added to every single page, became a long and expensive process.

To solve this problem, the World Wide Web Consortium (W3C) created CSS. CSS was created to specify the document's style, not its content.

In HTML 4.0, and later, all formatting should be removed from the HTML page, and stored in separate CSS files.

CSS Saves a Lot of Work!

The style definitions are normally saved in external .CSS files. With an external style sheet file, you can change the look of an entire Web site by changing just one file!

Backend:

- MySQL

A database is a separate application that stores a collection of data. Each database has one or more distinct APIs for creating, accessing, managing, searching and replicating the data it holds.

Other kinds of data stores can be used, such as files on the file system or large hash tables in memory but data fetching and writing would not be so fast and easy with those types of systems.

So nowadays, we use relational database management systems (RDBMS) to store and manage huge volume of data. This is called relational database because all the data is stored into different tables and relations are established using primary keys or other keys known as foreign keys.

❖ MySQL Database:

MySQL is a fast, easy-to-use RDBMS being used for many small and big businesses. MySQL is developed, marketed, and supported by MySQL AB, which is a Swedish company. MySQL is becoming so popular because of many good reasons:

- ✓ MySQL is released under an open-source license. So you have nothing to pay to use it.
- ✓ MySQL is a very powerful program in its own right. It handles a large subset of the functionality of the most expensive and powerful database packages.
- ✓ MySQL uses a standard form of the well-known SQL data language.
- ✓ MySQL works on many operating systems and with many languages including PHP, PERL, C, C++, JAVA, etc.
- ✓ MySQL works very quickly and works well even with large data sets.
- ✓ MySQL is very friendly to PHP, the most appreciated language for web development.
- ✓ MySQL supports large databases, up to 50 million rows or more in a table. The default file size limit for a table is 4GB, but you can increase this (if your operating system can handle it) to a theoretical limit of 8 million terabytes (TB).

MySQL is customizable. The open-source GPL license allows programmers to modify the MySQL software to fit their own specific environments.

Chapter No: 2 System Analysis

2.1 Process Model

2.2 Requirement analysis

2.3 SRS

2.4 Grant Chart

2.1 Process Model

Iterative Waterfall Model

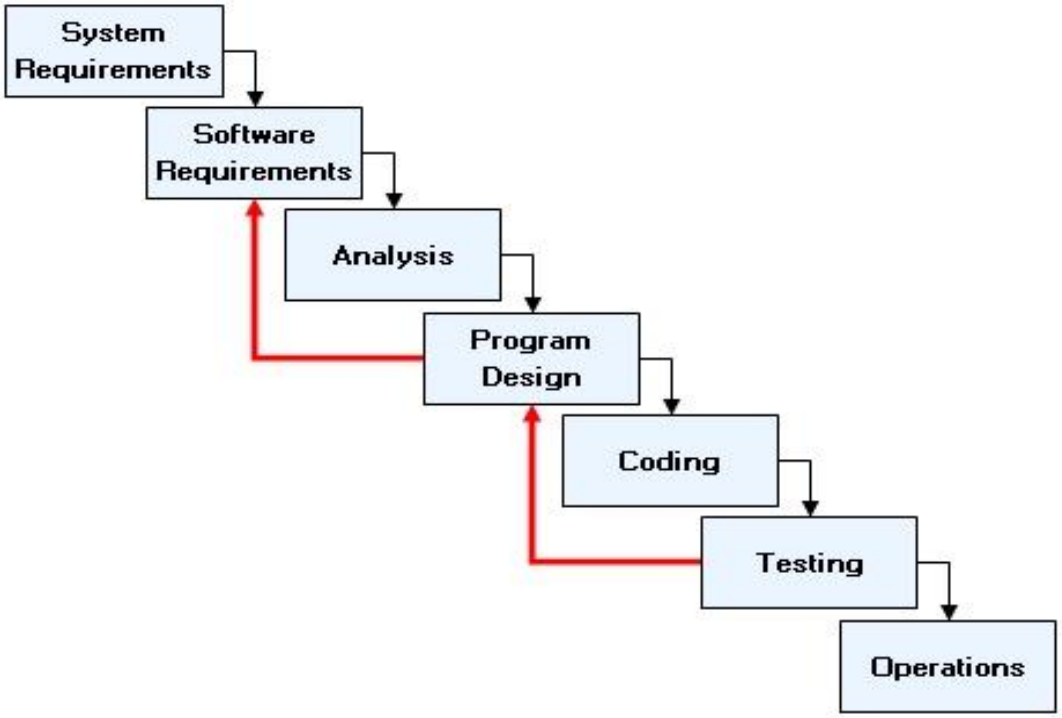


Figure 2.1

- Advantages of Iterative Waterfall Model

1. Simple and Easy to Understand and Each Phase has well Defined Input and Output
2. It Work well for Smaller Project Where Requirement Are Clear And very well understood
3. It Divide complex task into more manageable works

- Application of Iterative Waterfall Model

1. This Model is used When Requirements are clear And Fix

2. Product Definition is Stable & Technology is Understood & it Used When Project is Short

- Why Iterative Waterfall Model?

Online Room booking System is a large system with all functionality and specification.

ITERATIVE WATERFALL Model is used for development process of online Room booking System.

The incremental Model is an evolution of the waterfall model, where the waterfall model incrementally applied. The Incremental Process Model combines elements of the linear sequential model (applied repetitively) with the iterative philosophy of prototyping.

- Implementation of iterative model in this project:

At First, we try to find the requirements of information about the system of order food which the user wants.

After getting the requirements, we find out its alternative.

2.2 Requirement Analysis

Hardware Requirement

- Operating System : 32bit
- RAM : 2 GB
- Processor : Intel Pentium

Software Requirement

- Front End Tool : Asp.net
- Xampp : php5.6
- Back End Tool : MySQL
- Development Tool : Microsoft visual studio 2010
- Supported Operating Systems: Windows 7 (32-bit/64-bit), Windows XP

2.3 Project Modules

In my project there are two panels which are:

1.Admin panel

2.Client panel

ADMIN PANEL

Admin panel contains the following pages:

R1: LOGIN.

R2: HOME.

R3: ROOM BOOKING.

R4: CHANGE PASSWORD.

R5: ROOMS.

R6: MANAGE ROOMS.

R7: ENQUIRY.

R8: SERVICES.

R9: MANAGE SERVICES.

R10: LOGOUT.

CLIENT PANEL

Client panel contains the following pages:

Home

About

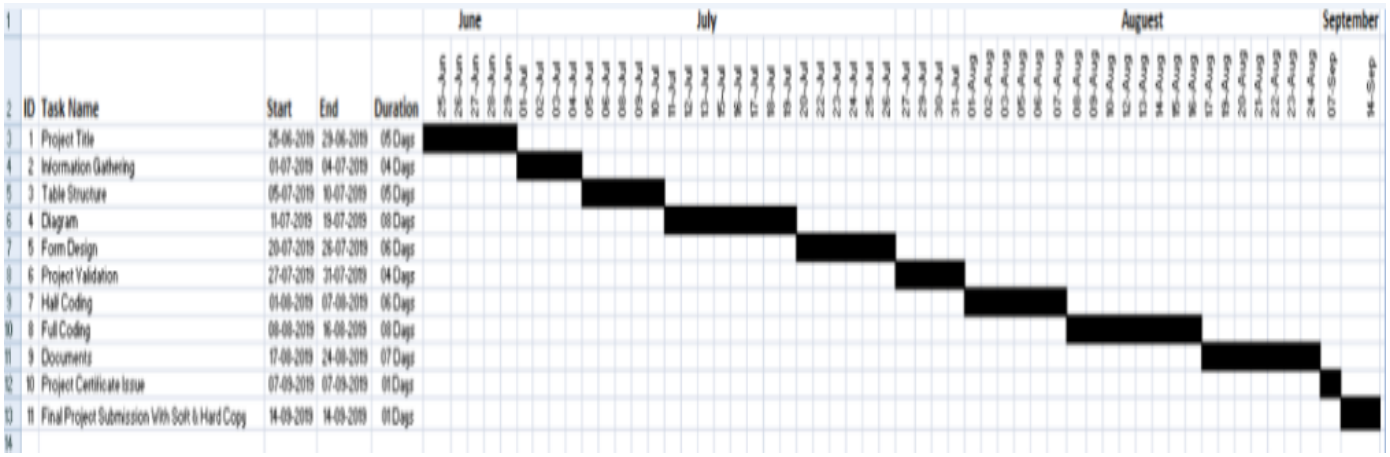
Services

Gallery

Booking

Contact Us

2.4 Grant Chart



ID	Task Name	Start	End	Duration
1	Project Title	25-06-2019	29-06-2019	05 Days
2	Information Gathering	01-07-2019	04-07-2019	04 Days
3	Table Structure	05-07-2019	10-07-2019	05 Days
4	Diagram	11-07-2019	19-07-2019	08 Days
5	Form Design	20-07-2019	26-07-2019	06 Days
6	Project Validation	27-07-2019	31-07-2019	04 Days
7	Half Coding	01-08-2019	07-08-2019	06 Days
8	Full Coding	08-08-2019	16-08-2019	08 Days
9	Documents	17-08-2019	24-08-2019	07 Days
10	Project Certificate Issue	07-09-2019	07-09-2019	01 Days
11	Final Project Submission With Soft & Hard Copy	14-09-2019	14-09-2019	01 Days

Chapter No: 3

System Design

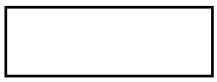
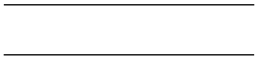
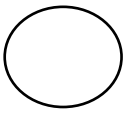
3.1 Data Flow Diagram

3.2 E-R Diagram

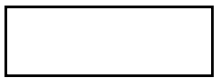
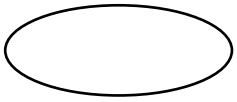
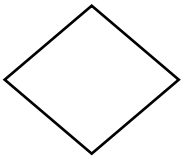
3.3 Use Case Diagram

3.1 DFD (DATA FLOW DIAGRAM)

This is Basic Symbol for DFD Diagram

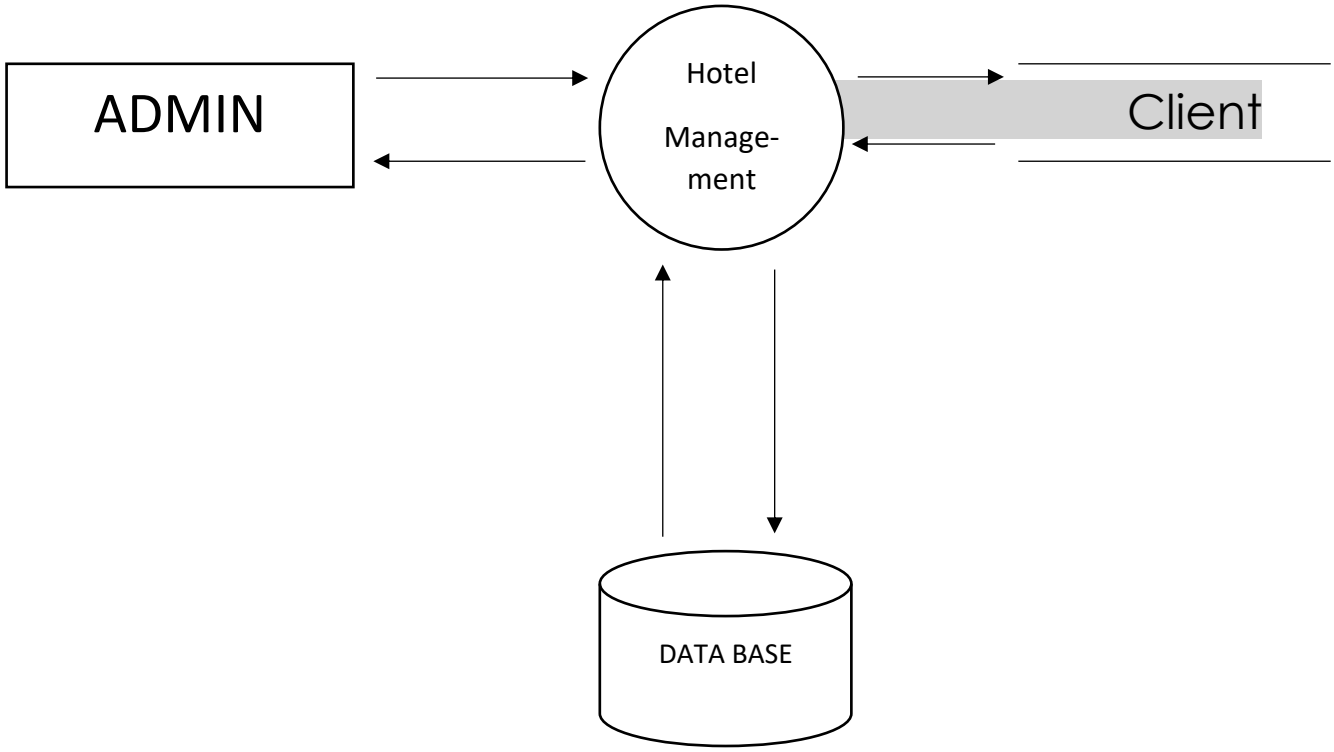
Symbol	Name	Description
	External Entity	The External Entity Symbol Represents Sources of data to the Symbol or Description of Data from the System.
	Data Flow	The Data Flow Symbol Represents Movement of Data.
	Data Store	The Data Store Symbol Represents Permanent or Temporary Data Storage.
	Process	The Process Symbol Represents Process.

This is Basic Symbol for ER Diagram

Symbol	Name	Description
	Entity	It is used to represent Entity.
	Attribute	It represents Attribute of an Entity.
	Relationship	To express relationship between to entity.

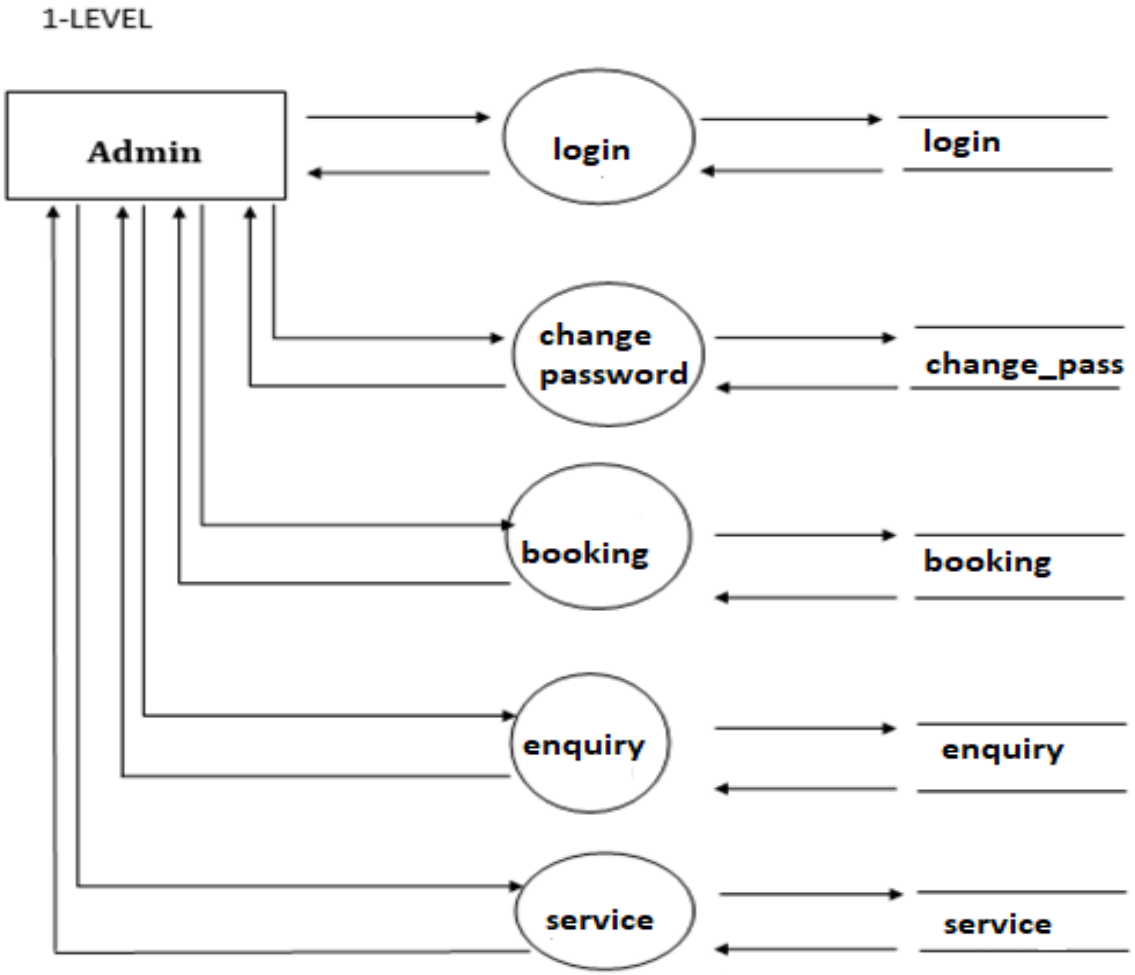
DFD Level 0 (Context Level)

Figure 3.1.1

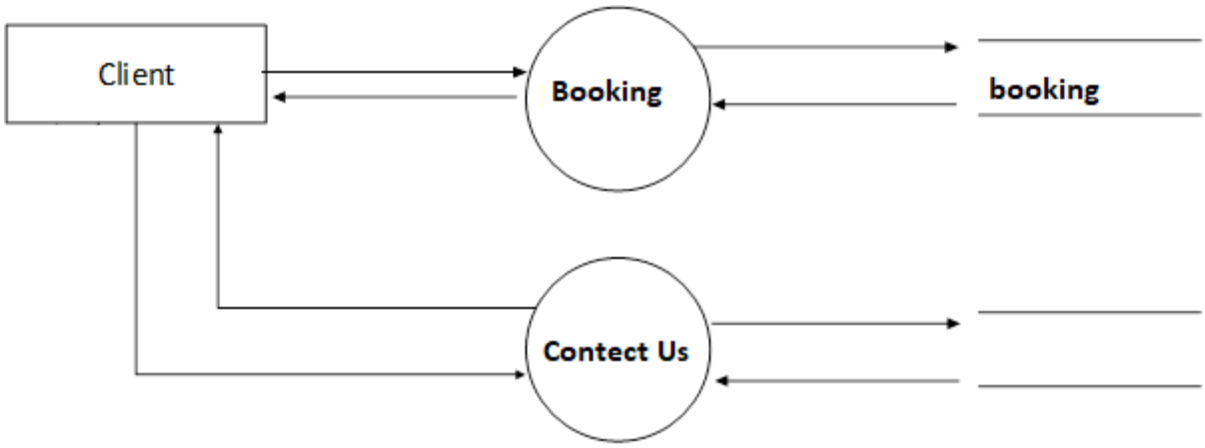


DFD Level 1:

Figure 3.1.2

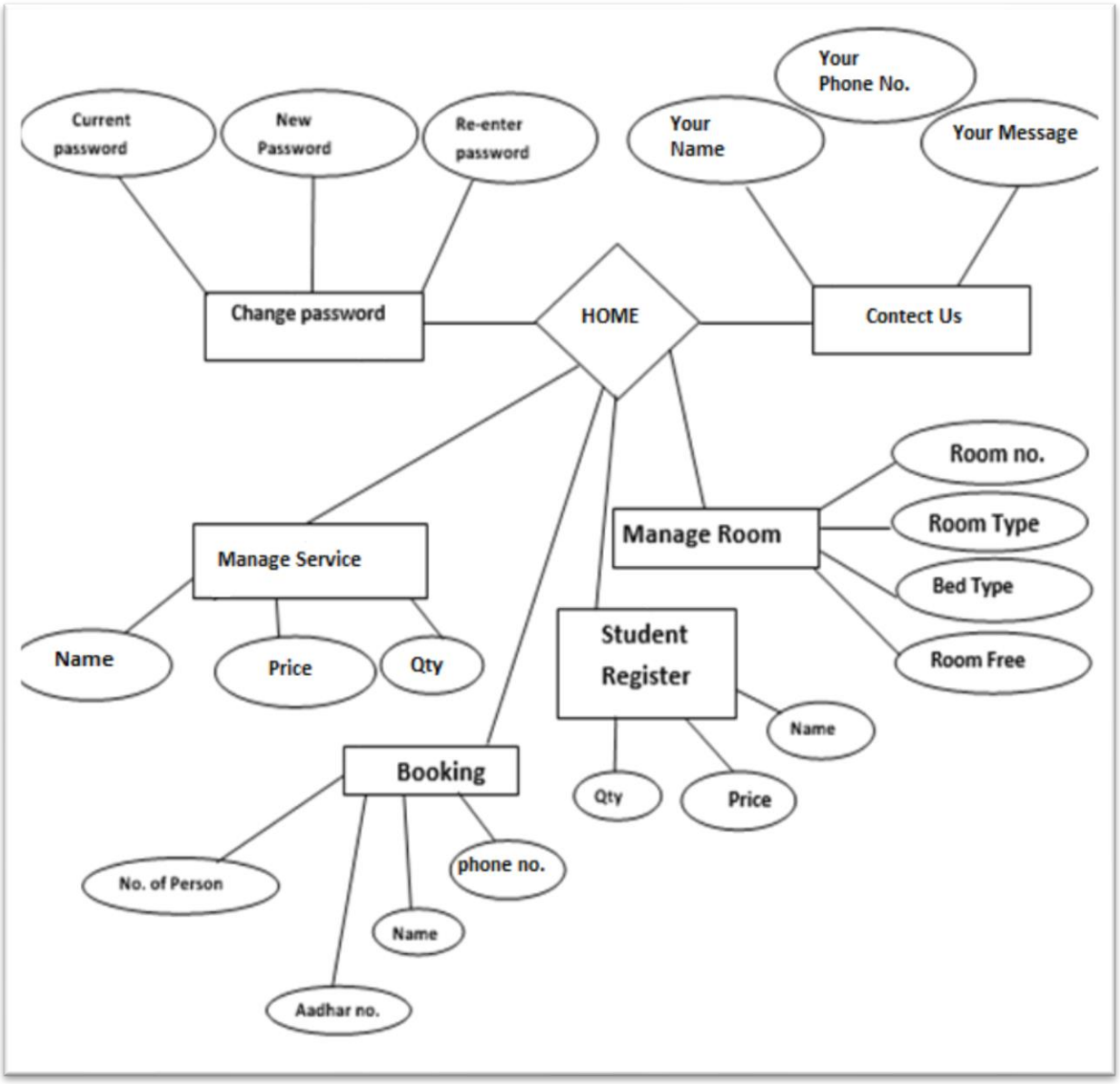


DFD Level 2:



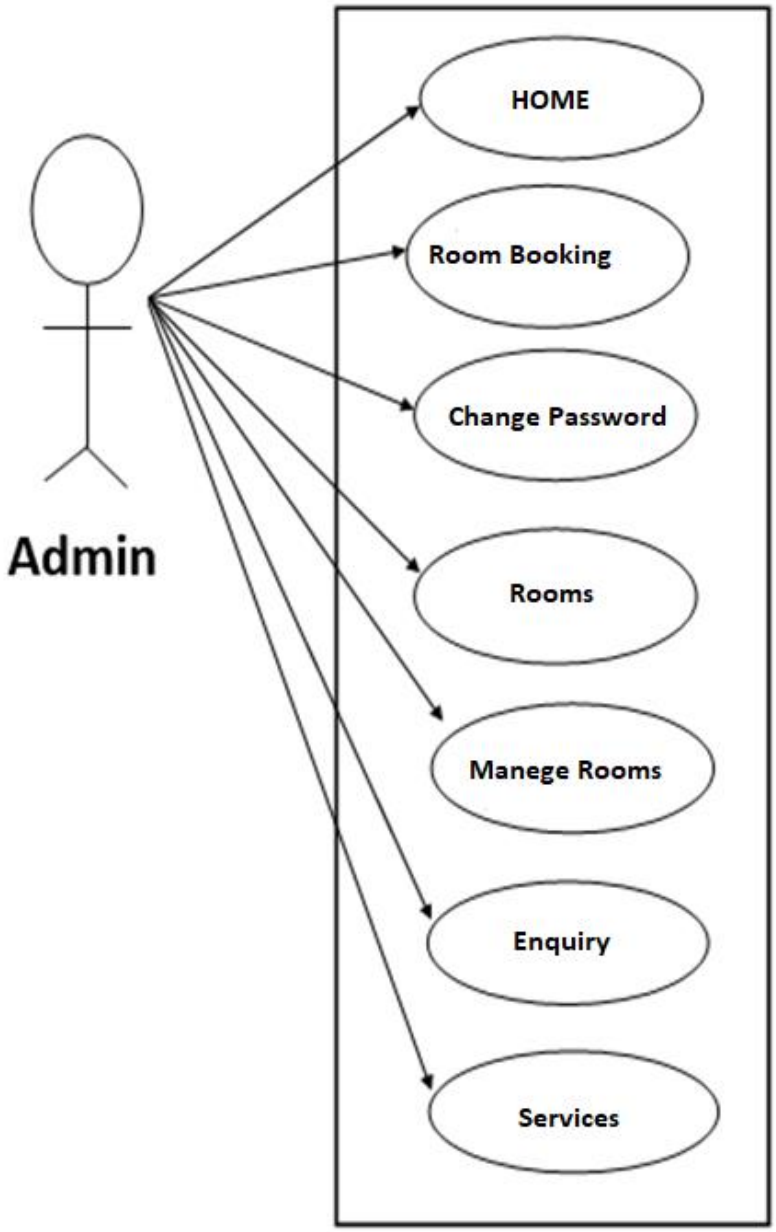
3.2 E-R Diagram

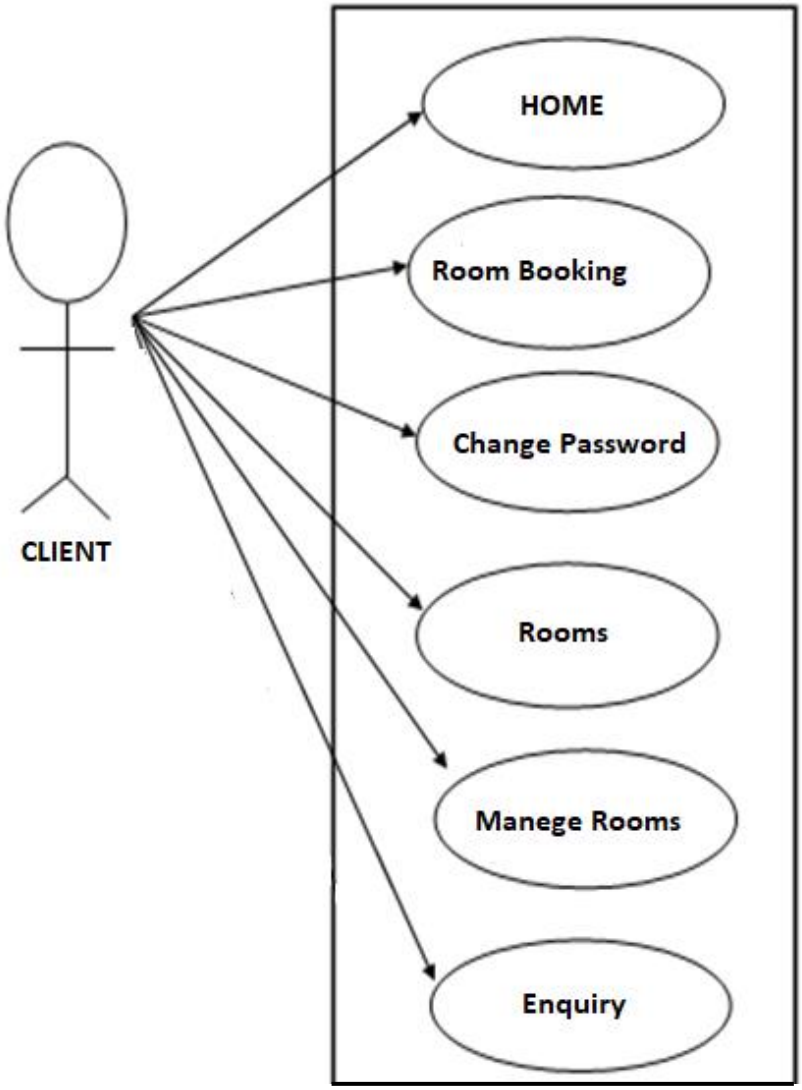
Figure 3.2



3.3 USECASE

Figure 3.3




HOME
Room Booking
Change Password
Rooms
Manege Rooms
Enquiry
CLIENT

Chapter No: 4

DATA DICTIONARY

4.1 Data Dictionary

Table Name: Login

Field Name	Data Type	Description
Id	AutoNumber	It is Auto increment.
User Name	Text	It is used to store username.
Password	Text	It is used to store password.

Description: Admin table store admin data ex. username, password etc.

Table Name: Contact Us.

Field	Datatype	Description
ID	Auto number	It is auto increment
Username	VARCHAR	It is used to store add Username
Contact Number	VARCHAR	It is used to store contact number
Email	VARCHAR	It is used to store Email id.
Message	VARCHAR	It is used to store Message

Description: Add user table store client data example= full name, password, conform password etc.

Table Name: Change Password

Field Name	Data Type	Description
Id	AutoNumber	It is Auto increment.
Old Password	VARCHAR	It is used to store old password.
New Password	VARCHAR	It is used to store new password.
Conform password	VARCHAR	It is used to store conform password.

Description: Change password table store old password, new password, conform Password etc.

Table Name: Booking

Field	Datatype	Description
Room No	Auto number	It is auto increment
No of Person	VARCHAR	It is used to store how many persons used the room of hotel
Name	VARCHAR	It is used to store add customer name
From	VARCHAR	It is used to store from date of the hotel room
to	VARCHAR	It is used to store to date of the hotel room
Aadhar Number	VARCHAR	It is store Aadhar number of the customer

Description: Inquiry table is store to client full name, address, mobile number, batch time.

Table Name: Customer Information

Field	Datatype	Description
Room No	Number	It is store room no of the customer
Name	VARCHAR	It is used to store name of customer
Aadhar No	VARCHAR	It is used to store Aadhar number of customers
From	VARCHAR	It shows when the customer has been registered
To	VARCHAR	It shows the last date till the customer is registered

Description: Customer information table is store to Room no., Name, Aadhar no., booking date from, booked To.

Table Name: Manage Room

Field	Datatype	Description
ID	Number	It is auto increment
Room No	VARCHAR	It is used to enter the room number
Room Type	VARCHAR	It is used to enter the room type
Bad Type	VARCHAR	It is used to enter the bad type
Free	VARCHAR	It is used to showing current status of room
Price	VARCHAR	It is sed to enter room price

Description: This table is managed rooms of hotels.

Table Name: Services

Field Name	Data Type	Description
Id	AutoNumber	It is Auto increment.
Name	VARCHAR	It is used to store name.
Price	VARCHAR	It is used to store price of services
Qty	VARCHAR	It is used to store quantity of service.

Description: this table is for manage services given by managing hotel.

Chapter No: 5

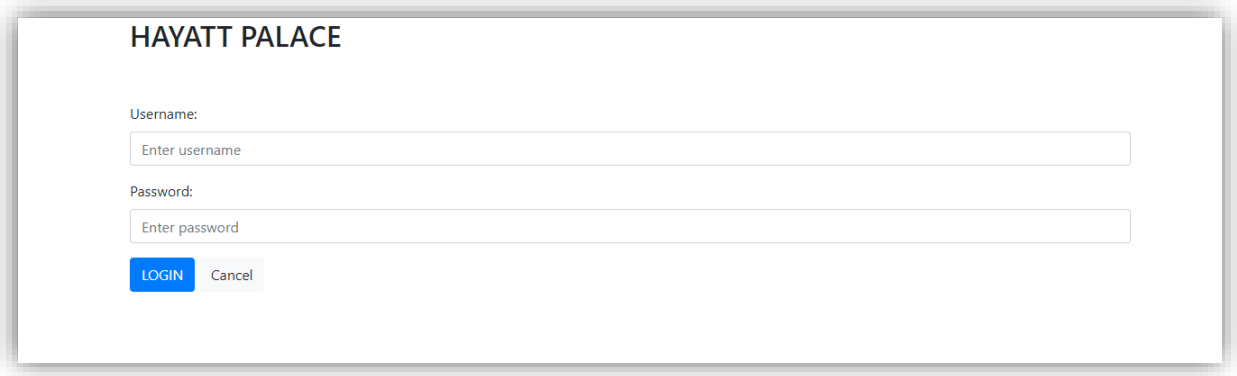
Screen shot of Software

5.1 Admin Layout

5.2 Client Layout

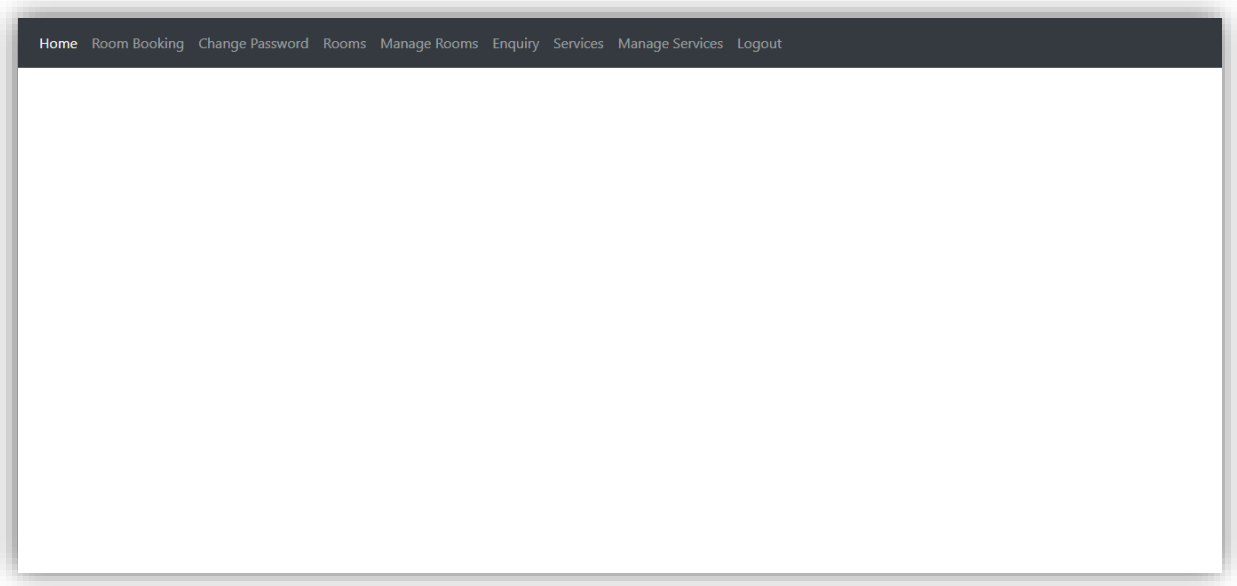
Admin Layout:

Login:



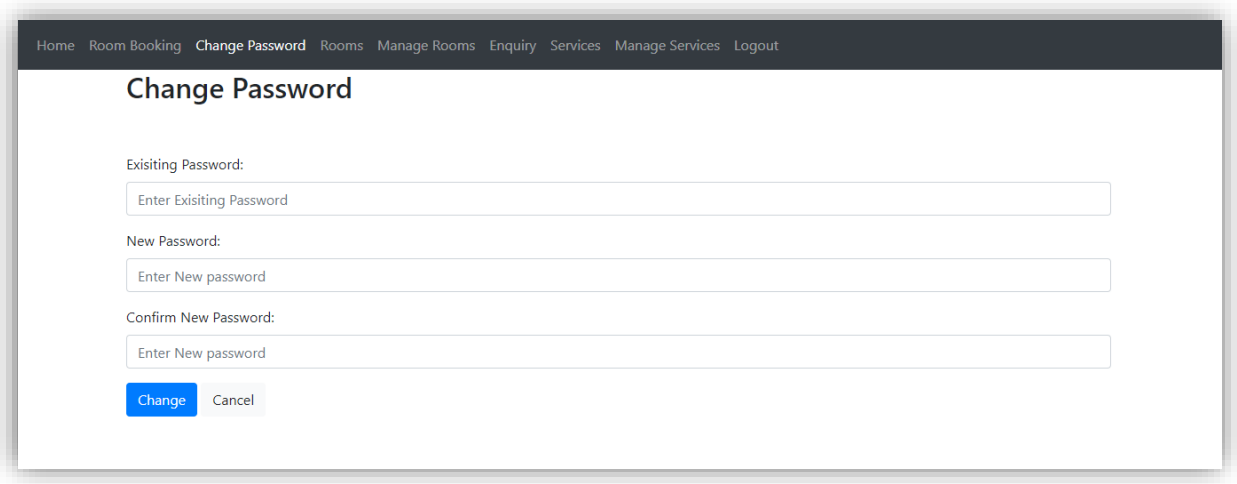
Description: A login form is used to enter authentication credentials to access a restricted page or form. The login form contains a field for the username and another or the password.

Home:



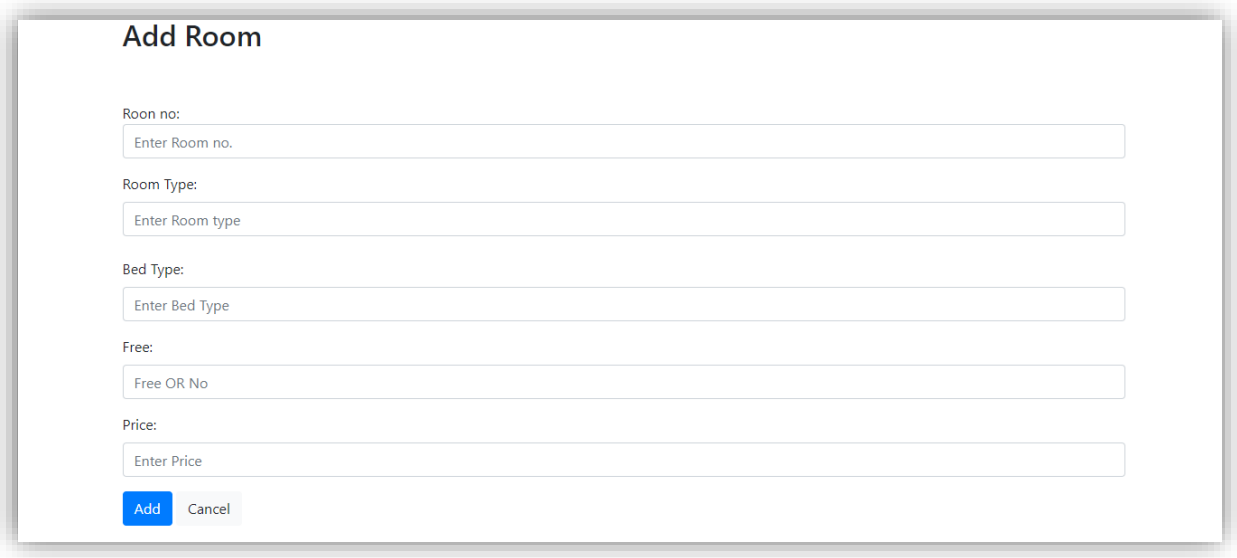
Description: A Menu is set of options presented to the user of a computer application to help the user find information or execute a program function.

Change password:



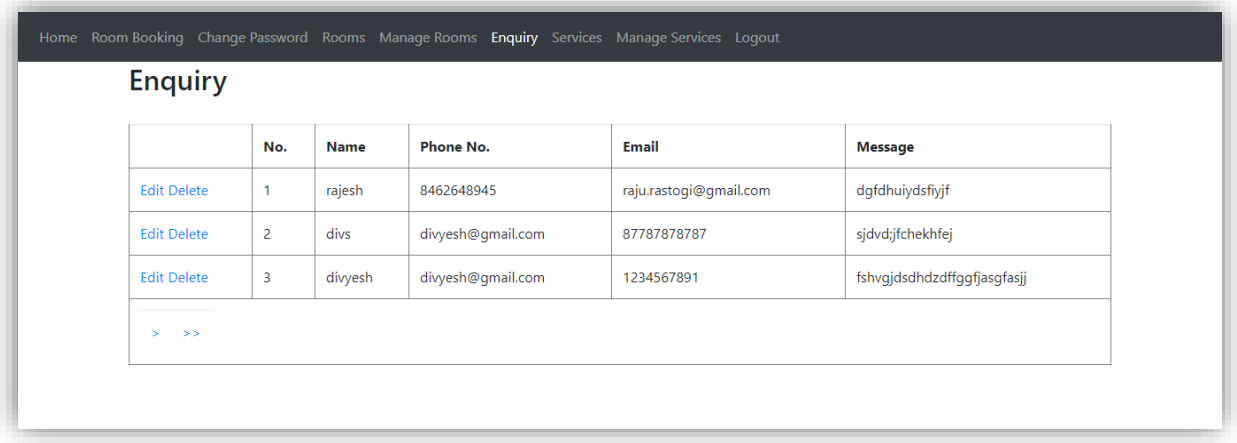
Description: this page is used to change password.

ADD ROOM:



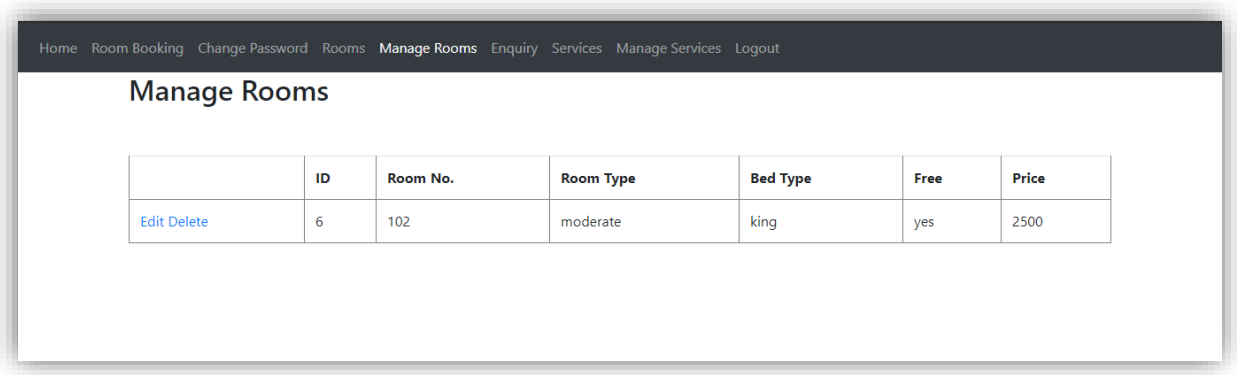
Description: This page is used to add rooms.

ENQUIRY:



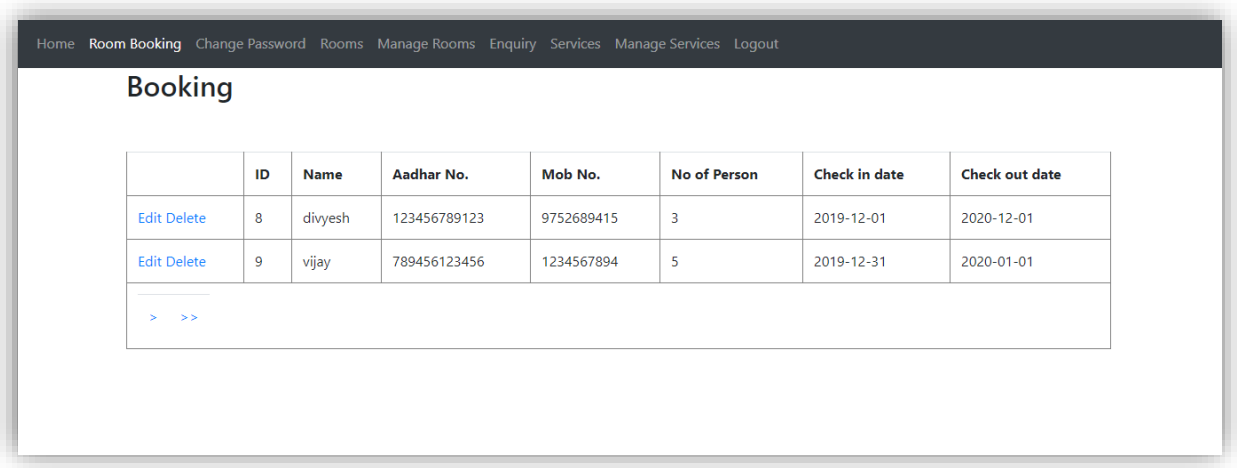
Description: This page is used to show the query of any user to admin of the hotel.

MANAGE ROOMS:



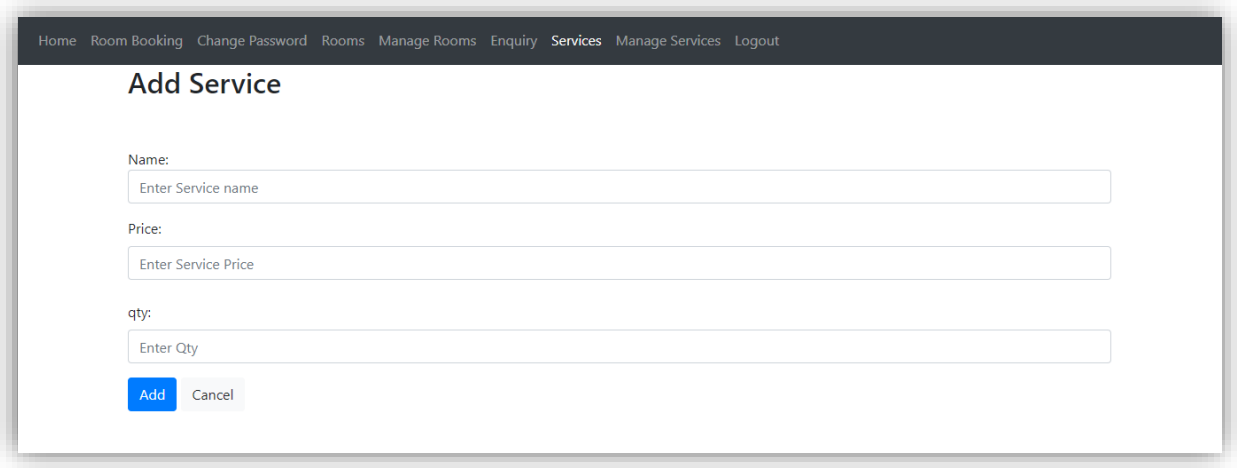
Description: This page is used to manage rooms of hotel.

BOOKING:



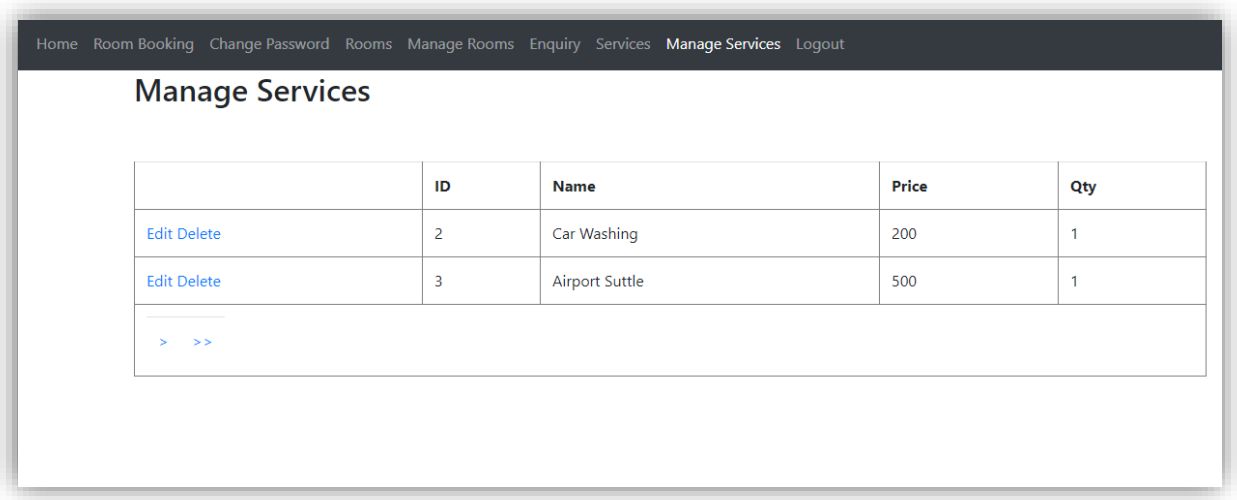
Description: This page is used to booked rooms.

ADD SERVICE:



Description: This page is used to adding services which provide in hotel.

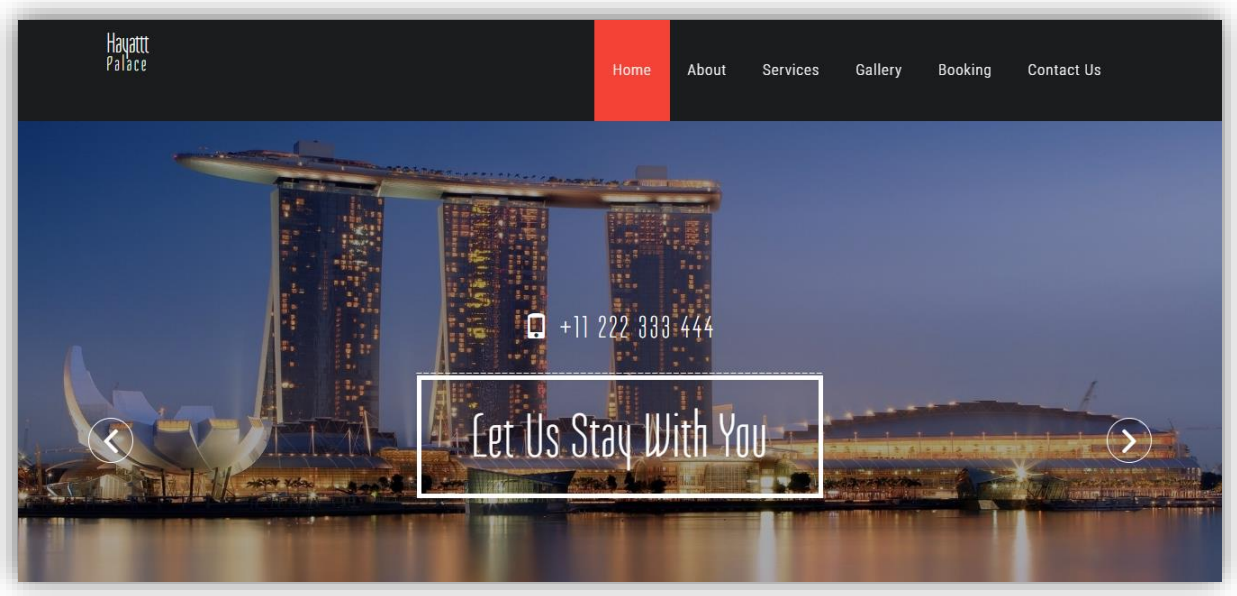
MANAGE SERVICE:



Description: This page is used to manage services of hotel.

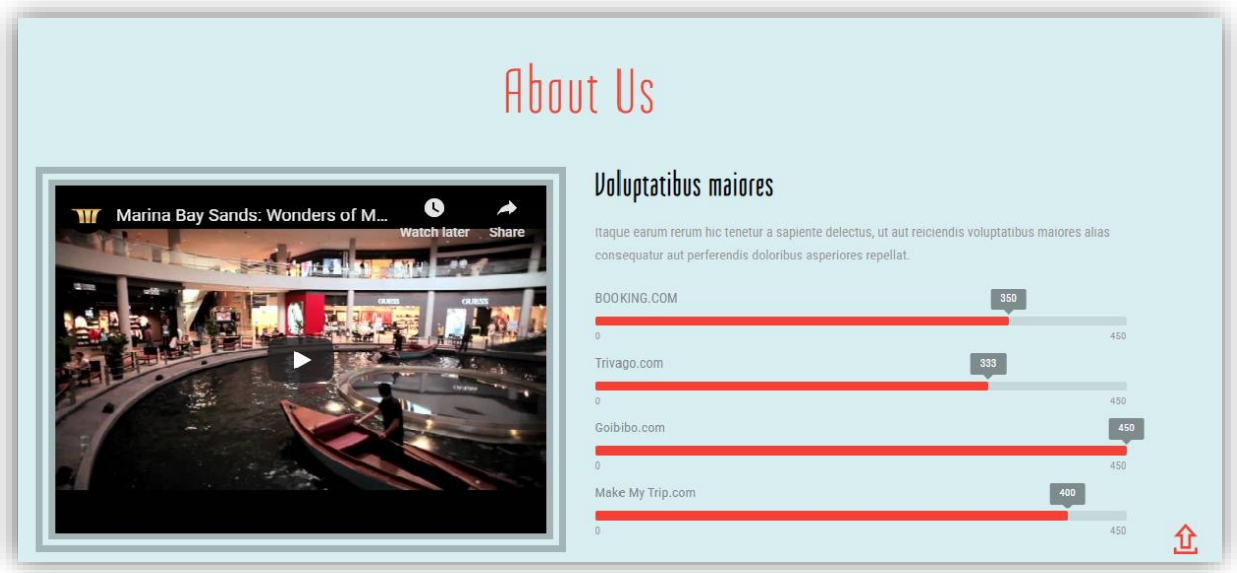
Client Layout:

HOME:



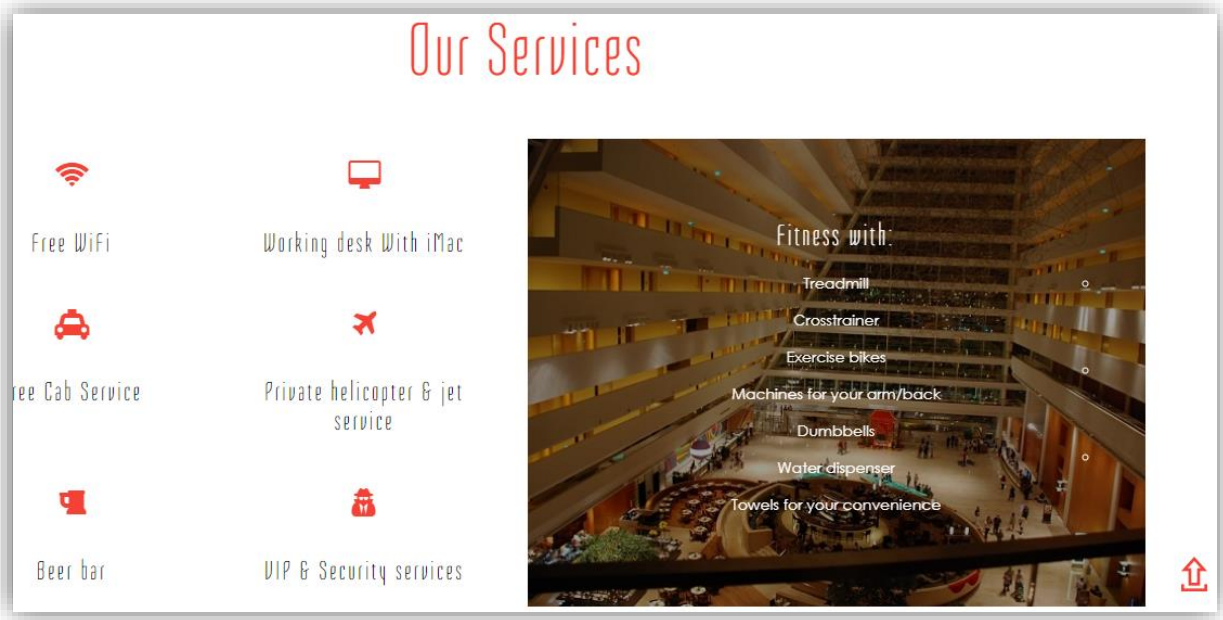
Description: This is home page of hotel management.

About Us:



Description: This is about us page of hotel management.

Our Service:

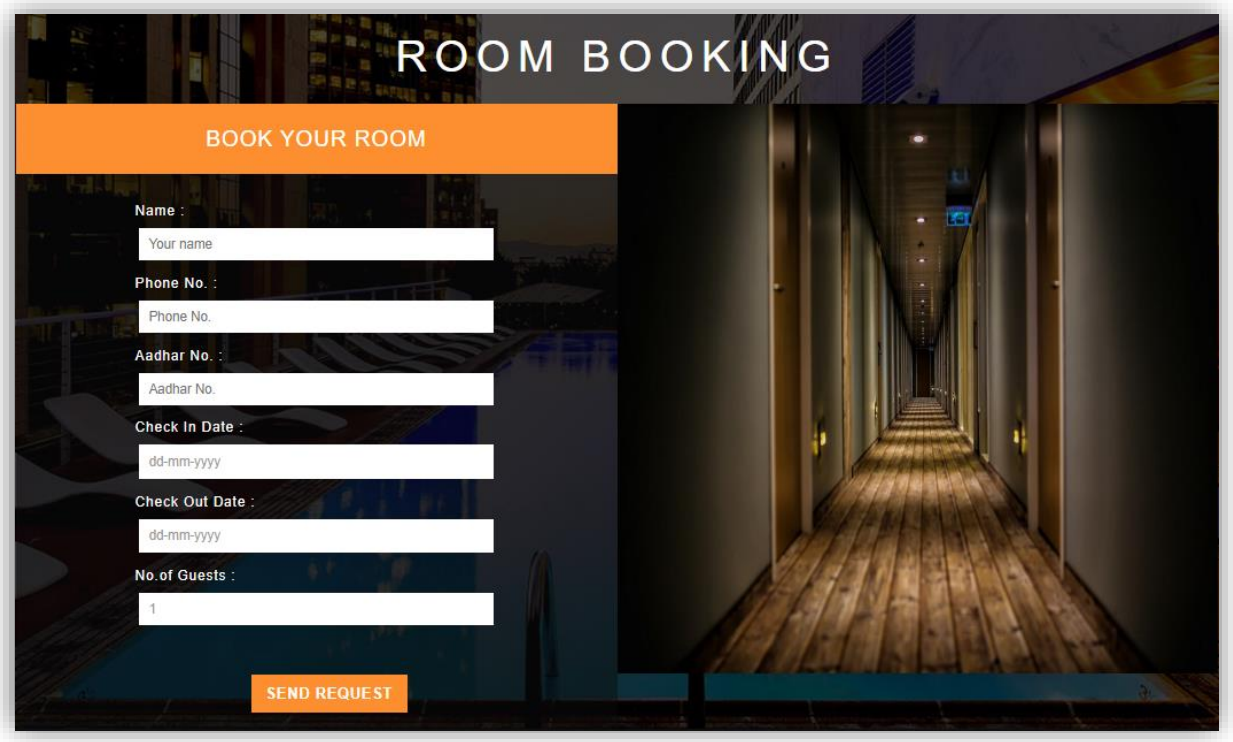


Description: This is service page of hotel management.

Gallery:

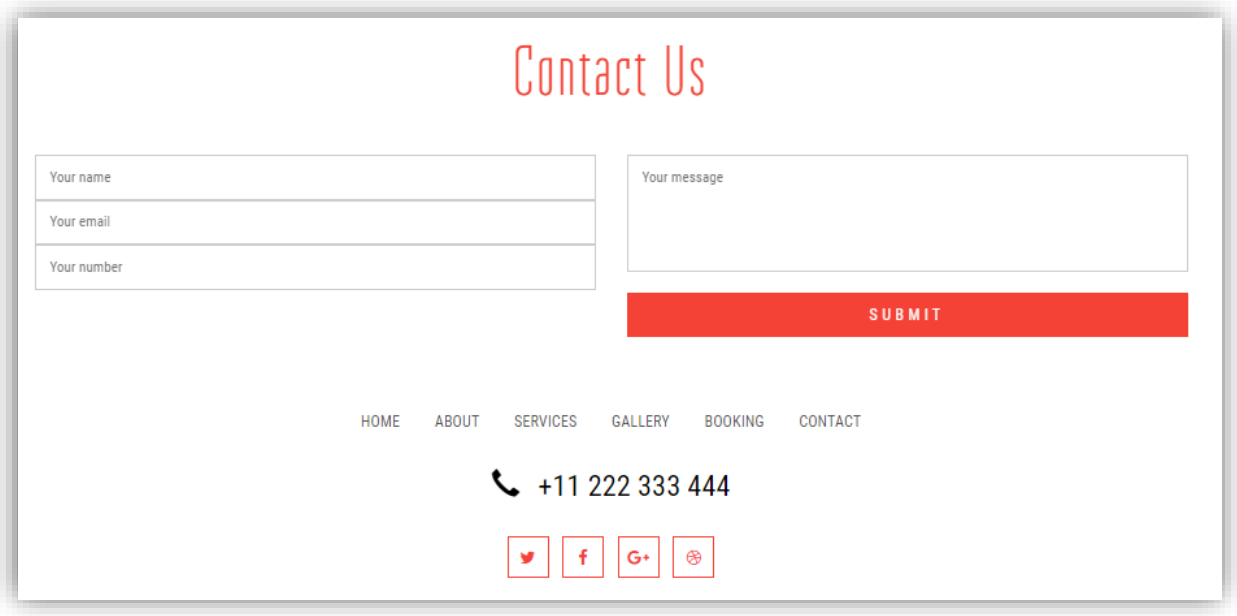
Description: This is gallery page of hotel management.

Booking:



Description: This is a booking page of hotel management.

Contact Us:



Description: This is contact us page of hotel management.

Chapter No: 6

limitations and future enhancement

6.1 Limitations

6.2 Future Enhancement

6.1 Limitations

- Excel report has not been developed for booking Hotel due to some criticality.
- This website does not provide online shopping facility.
- Any computer can crash or become affected by a virus at any time. So, it is imperative to take the backup of the data, but this website does not provide this utility.
-
- No Backup and Restore Utilities Are Incorporated.
- We are not Accept online payment using any credit card or net banking for security reason

6.2 Future Enhancement

- We will try to provide online transaction using net banking and provide online booking from anywhere
- We will also provide a merchant payment option for our customer
- We Will also Contact replay By Email for Client.

Chapter No: 7

conclusion

7.1 Advantages

7.2 Conclusion

7.1 Advantages

- User friendly interface.
- Fast access to database.
- Fast Response.
- Security of data.

7.2 Conclusion

- It is used by any one at any place.
- It also maintains records of client's details.
- It also maintains records about client's account details.
- In fine we want to say we are not yet an experienced system analyst, but tried our best to fulfil this project.

Chapter No: 8

Bibliography

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Chapter No: 9

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We are really thankful to our guider ma'am Mrs. Zalak Thakrar to guide us and inspire us. We also Thankful to the whole staff of computer Department to gives us a huge support in our project.

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