

Kingdom of Saudi
Arabia
Majmaah University
Ministry of Higher
Education
College of Science in
Zulfi
Dept. of Computer
Science



المملكة العربية السعودية
جامعة المجمعة
وزارة التعليم العالي
كلية العلوم في الزلفي
قسم علوم الحاسب

PROMOTION-BASED HOTEL MANAGEMENT SYSTEM

Submitted By: ABDULAZIZ FAHAD ALMOTIRY

ID: 341101211

Supervisor: Dr.YOSEF QAWAQEZH

Chapter 1	6
1.0 INTRODUCTION	6
1.1 Problem Statement.....	7
1.2 Objectives	9
1.3 Scope.....	10
2 Chapter 2	11
2.1 Literature reviews	11
Chapter 3	17
3.1 Introduction.....	17
3.2 Description of Data Flow Diagram (DFD)	17
3.1.1 Context Diagram.....	17
3.1.2 Overview Diagram (Level 0)	18
3.3 Use case diagram.....	20
3.1.3 Definition.....	20
3.1.4 Use Case Diagram.....	20
3.4 ERD diagram.....	22

3.1.5	Drawing ERD.	23
3.5	Class Diagram.....	25
3.1.6	Drawing Class Diagram.....	25
3.6	Object Diagram	26
3.1.7	Drawing Object diagram.....	26
3.7	Sequence Diagram.....	28
3.1.8	Sample of Sequence Diagram	28
Chapter 4	30
	system Analysis and Design.....	30
4.1	Functional Requirements	30
4.2	Non-Functional Requirements.....	31
4.3	Layouts	33
3.2	Relation Database Schema	41
4.4	Hardware and Software Requirements	80
4.4.1	Hardware Requirements	80
1.1	Software Requirements	80
4.5	Conclusion	80

4.6 References81

CHAPTER 1

1.0 INTRODUCTION

Promotion-based hotel management system is a tourist agent which provides the facilities for booking hotels especially that is had discounts and promotions,

houses, holiday apartments and other accommodations for customers . They operate them

business in KSA, Dubai and other Gulf Countries. Any customers need to book hotel,

ins or apartment he/she need to visit office which is situated in Gulf for checking the

availability as well as negotiation. Recently they have decided to change their booking pattern

from manual to web-based system. It will help them to manage the customers booking easily and

also, to keep the customers data safer. It will also help staffs to keep in track their customer's

online booking request as well as easily to reply feedback to the customers. For that they hired a

developer to build the web system for this reputed company. In this documentation it shows how

the web-based system will be implemented and looks like (User Interface).

One of the most important skills that customers should have the knowledge of using an on-line hotel reservation system. Hotel reservation system has been designed to simplify the task of on-line booking and to enable hotel businesses to compete in today's demanding and competitive market. The system provides the customers and clients a unique, innovative and easy to use interface that improves the way people use the web today. Online users can compare prices and facilities at different hotels. Online hotel reservations systems are becoming a very popular method for booking hotel rooms. Travelers can book rooms from home by using an online security to protect their privacy and financial information. The researchers believe that the knowledge gained in the development of the system will be an effective tool in providing the needed IT skills of the students in the industries. It will be beneficial to the University since the use of the system as a teaching tool will improve the delivery of instruction and prove to be cost-efficient.

1.1 PROBLEM STATEMENT

With the increase of global business and number of travelers. We are also looking for lower and better accommodation, Promotion-based hotel management system provide for these needs with convenient services. However, a variety of hotels are already all over the world and a wide range of hotel online boking website has offers with multiple discount on the rooms. So they only can discovered it while travel and business. The following points are some current problem in Promotion-based hotel management system.

1. No professional managers to manage.
2. The publicity is not good, and unknown by people.

3. The concept are not familiar by customers, they trust hostel more.
4. Inconvenient order was abandoned and chose more convenient hotel online booking.
5. However, no matter how a Promotion-based hotel management system information platform is designed, Promotion-based hotel management system information integration is always a most tough but important issue to resolve.
6. Promotion-based hotel management system is completely a website for hotel promotion, the main site is use to view the main information and sign in or sign up. Main website for the website display the Promotion-based hotel management system information , online reservations, online messages login function (divided into the customer login and hotel manager login) and other functions to the users who view the offers.

1.2 OBJECTIVES

objectives fulfilled by online hotel reservation systems are:

- To provide a platform to manage on-desk and online bookings
- To display organized information of hotel, prices and pictures.
- To add multiple hotels/rooms to the system.
- To change prices of hotel rooms when needed.
- View of availability of rooms in real time.
- Store customer information which can be accessed anytime.
- A user-friendly interface for customers for the easy booking process.
- To provide a secure payment gateway for online transaction

1.3 SCOPE

The scope of the project will only include the following:

1. This system will be developed by using Microsoft php and other computers aided tools.
2. Promotion-based hotel management system will only cover hotels in KSA and only for the hotel with discount and offers.
3. The system will allow for availability check, and information of the Promotion-based hotel management system.
4. The system allows booking Promotion-based hotel management system through online.

2 CHAPTER 2

2.1 LITERATURE REVIEWS

The application of the Internet in the business world has become a major trend in practice and generated a hot stream of research in the recent literature. The Internet, as a collection of interconnected computer networks, provides free exchanging of information. Over 400 million of computers or more than 400,000 networks worldwide today are communicating with each other (Napier, Judd, Rivers, and Wagner, 2001). As such, the Internet has been becoming a powerful channel for business marketing and communication (Palmer, 1999), and for new business opportunities - as it is often called as "e-business" or "e-commerce" today (Schneider & Perry, 2001). This new e-business or e-commerce virtual marketplace allows small companies competing with business giants by just having a better web presentation of their products/services. Under the same wave, online customers can enjoy a wider choice of products or services, more competitive prices, and being able to buy their favorite items/services from the sellers located THOUSANDS OF miles away. It provides communication between consumers and companies and through electronic data interchange (EDI), buyers and sellers can exchange standard business transactions such as invoices or purchase orders with remarkable ease. The hotel industry is certainly full aware of this trend and fully willing to contribute its share in this effort. In fact, the industry has realized that during those early forays into cyberspace, the industry didn't view e-booking strategically (many hotels simply considered online room bookings at the time as a way to pick up additional business by selling distressed inventory through those online travel agencies), and handed over too much control of inventory and pricing to those third party online travel agencies. Now the industry is in the unenviable position of trying to take back the reins after early shopping patterns have been established. While the pressure

to sell their inventory rooms online will be continuing, the industry has developed its new online strategy striving to get a better grip on this emerging marketing channel.

(<http://www.iima.org/CIIMA/CIIMA%20V3%20N1%201%20Yang.pdf>) Online system has evolved to be a cornerstone in support of computer software users of all kinds. It is an electronic interactive system that delivers information to users via telephone lines to personal computers (PCs) or via cables to terminals. Such a service provides information, usually in text form, about news, education, business, entertainment, shopping, and more. Some also provide message services and graphic and audio information.

(<http://www.britannica.com/EBchecked/topic/429262/online-system>) Online hotel reservations are becoming a very popular method for booking hotel rooms. Travelers can book rooms from home by using online security to protect their privacy and financial information and by using several online travel agents to compare prices and facilities at different hotels. People can book directly on an individual hotel's website. An increasing number of hotels are building their own websites to allow them to market their hotels directly to consumers. Non-franchise chain hotels require a "booking engine" application to be attached to their website to permit people to book rooms in real time. One advantage of booking with the hotel directly is the use of the hotel's full cancellation policy as well as not needing a deposit in most situations.

(http://en.wikipedia.org/wiki/Online_hotel_reservations)

Hotel Management System is an easy to use arrangement that enables agents and guests to reserve rooms directly via the internet once they have confirmed availability of rooms in accordance with the itinerary. Hotel Management System is an efficient and brilliant software, yet it is easy and uncomplicated to use. Hotel

Management System grants complete authority and power on hotel or motel room booking over the internet. This entails that one can accumulate all guest payments; enter own room descriptions, facilities, rates and allocations into the Reservation System. Hotel Management System also allows to confirm accommodation in real-time at hotel's web site and close the sale without more ado. (<http://www.dotcomtechno.com/ohrm.html>) There are several benefits of Hotel Management System. It makes the reservation process computerized and thus helps one to undertake a large amount of transactions at a low cost. It lets the hotel in charge of over margins and pricing strategy. It enables one to check available inventory and complete an online booking form making the reservation process more efficient and less time consuming. The clients can settle the room rates and special offers at no extra cost. Hotel Management System assists hotel's guests and agents with different payment options such as credit/debit cards. The system can track hotel's performance on a regular basis as all information concerning payments is updated online and sent to the reservation manager by means of e-mail or mobile messages. Gatesix Hospitality offers online hotel reservation system development services for lodging industry including Inns, motels and resorts. Gatesix provides its hotel clients with the highest quality Internet presence as well as a seamless, embedded online reservation engine that allows for easy navigation for the consumer and greater flexibility for the hotelier. Their online hotel reservation system, "gRes" was crafted from strategic knowledge of the hotel business and a passionate commitment to excellence in hospitality services. (<http://www.gatesixhospitality.com/online-hotel-reservation-system.php>) BugHotel Reservation System was designed to simplify the task of online booking. It provides users a unique, intuitive and easy to use interface that improves the way people use the web today. Through personalization and rich features, BugHotel Reservation System enhances the entire Web experience. BugHotel Reservation System offers an online web based

reservation system for hotels, properties, motels and b&bs at affordable prices. (www.bughotel.com) Online hotel reservations are also helpful for making last minute travel arrangements. Hotels may drop the price of a room if some rooms are still available. Large hotel chains typically have direct connections to the airline national distribution systems. These in turn provide hotel information directly to the hundreds of thousands of travel agents that align themselves with one of these systems. Individual hotels and small hotel chains often cannot afford the expense of these direct connections and turn to other companies to provide the connections. Several large online travel sites are, in effect, travel agencies. These sites send the hotels' information and rates downstream to literally thousands of online travel sites, most of which act as travel agents. They can then receive commission payments from the hotels for any business booked on their websites. Lastly, people can book directly on an individual hotel's website. An increasing number of hotels are building their own websites to allow them to market their hotels directly to consumers. Non-franchise chain hotels require a "booking engine" application to be attached to their website to permit people to book rooms in real time. One advantage of booking with the hotel directly is the use of the hotel's full cancellation policy as well as not needing a deposit in most situations. To improve the likelihood of filling rooms, hotels tend to use several of the above systems. The content on many hotel reservation systems is becoming increasingly similar as more hotels sign up to all the sites. Companies thus have to either rely on specially negotiated rates with the hotels and hotel chains or trust in the influence of search engine rankings to draw in customers. The ultimate service provided by these companies to the hotels and the online consumer is that they provide a single database from which all reservation sources draw immediate room availability and rates. It is very important that hotels integrate with all the supply channels so that their guests are able to make accurate online bookings. There are many ways of making the online

reservation, most of the online reservation systems use the centralized system for making the reservation with the hotel directly. The online hotel reservation through the centralized system is just the tentative reservation, means that a client do not need to pay at the time of reservation and instead pay at the time of check in or check out. Stuart (1995) in a study entitled “International Reservations Systems - Their Strategic and Operational Implications for the UK Hotel Industry”, presented details of the method and results of an investigation of the role and influence of international reservations systems within the UK hotel industry. The research comprised three questionnaire surveys of the use of computer reservations systems and distribution services by UK hotels. These were analyzed and produced an indication of general use of systems and the contribution which these currently make to hotel groups and consortia. The work also included a study of developments in access methods and changes in buyer behavior as observed by representatives of computer reservation and distribution system, travel agency, hotel representation and intermediary companies. The case study made by Jiaqin Yang, Jan Flynn and Krista Anderson of Georgia College and State University (2005) aimed to describe some recent development of e-business application in the hospitality industry (e.g. travel industry, and recreational entities) and illustrate with two case studies. One is about a local hotel industry’s effort to use the Internet to boost its local market. Another describes the operations and its competitive strategy of an emerging online travel agency. The research objective is to investigate the trends and level of prevalence of application of the Internet in the hospitality industry focusing on some emerging issues and challenges.

Casa Intramurals Reservation System was used by CITHM students as a front desk operation simulation only. It has 9 modules which consist of reservation, registration, checking reservation, room orders, billing system,

housekeeping, main panel, reports and user's module. The system provided hands-on training for the students to explore and know the step by step procedure in dealing with hotel reservation system. This system is similar with the system developed by the authors in a way that it provided a hotel reservation and management system. OPERA System is the MICROS property management system used in many large hotel chains, such as Travelodge Hotels UK, Hyatt Hotels and Resorts, Rydges Hotels and Resorts, Marriott Hotels, Resorts and Suites, Radisson Hotels and Resorts (subsidiary of Carlson Companies), the InterContinental Hotels Group and the Thistle Hotels. Designed to meet the varied requirements of any size hotel or hotel chain, OPERA PMS provides all the tools a hotel staff needs for doing their day-to-day jobs — handling reservations, checking guests in and out, assigning rooms and managing room inventory, accommodating in-house guest needs, and handling accounting and billing. Opera can essentially be the only management software a hotel needs, as it can handle Reservations, Customer Profiles, Housekeeping Management, Maintenance logs, Cashiering, Accounts Receivable, Agent commissions and third-party interfaces such as Minibar systems or Guest TV. Arrivals and in-house guests are served using the Front Desk features of the property management software. This module handles individual guests, groups, and walk-ins, and has features for room blocking, managing guest messages and wakeup calls, and creating and following up on inter-department memos.

Booking.com that can manage work hotel or small hostel,

The user login and create order for booking room.

agoda.com: is booking system for reserved the hotels and flights, its differ from booking.com that the last one is advanced for hotels only and all the focus on accommodation services.

CHAPTER 3

3.1 INTRODUCTION

To analyze the system we draw many diagrams to explain the system, description of data flow diagram, the context diagram, overview diagram (level 0), detailed DFDs, entity relationship diagram, and class diagram. It is the most crucial phase in the development of a system. In systems design, the design functions and operations are described in detail.

3.2 DESCRIPTION OF DATA FLOW DIAGRAM (DFD)

3.1.1 Context Diagram

Context diagram will explain the boundary between our system and the environment that specify the entities and the interaction between them and the system as it is clear below: [6]

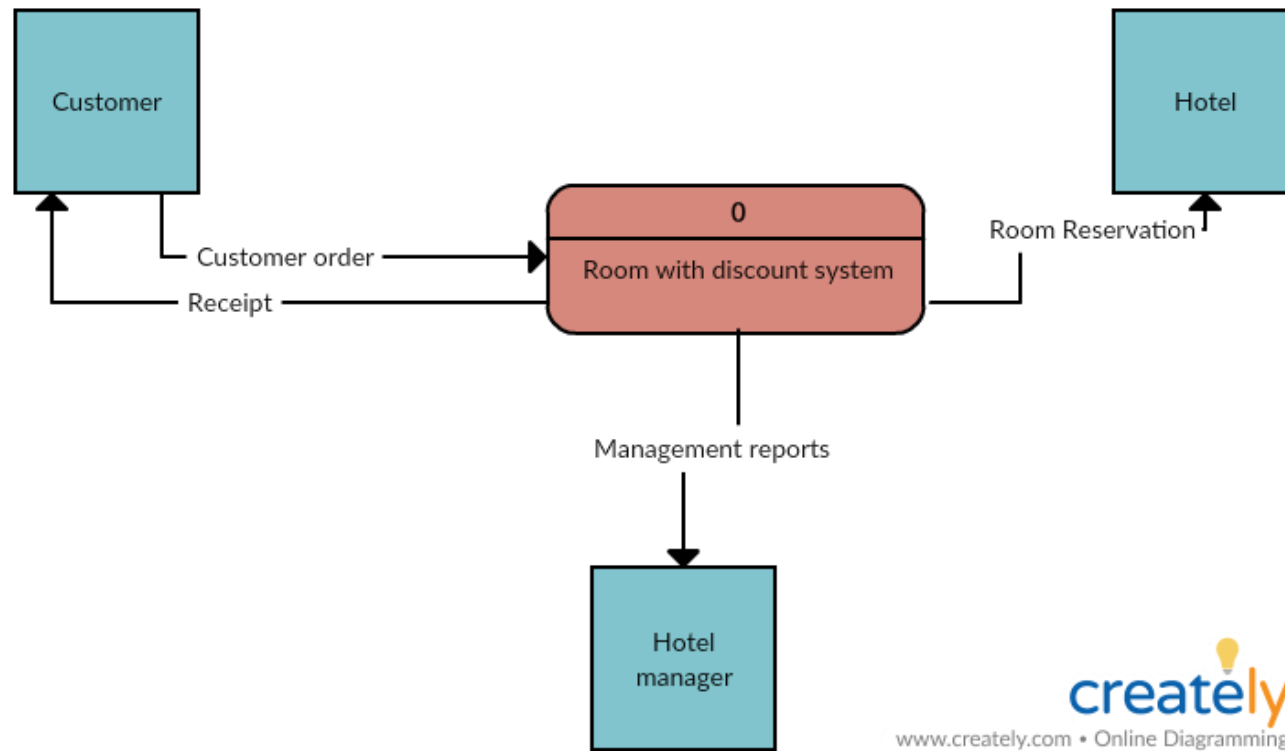


Figure 0-1 Context diagram

3.1.2 Overview Diagram (Level 0)

Interaction Overview Diagram is one of the fourteen types of diagrams of the Unified Modeling Language (UML), which can picture a control flow with nodes that can contain interaction diagrams. The overview diagram for our system is clear in the following shape: [6]

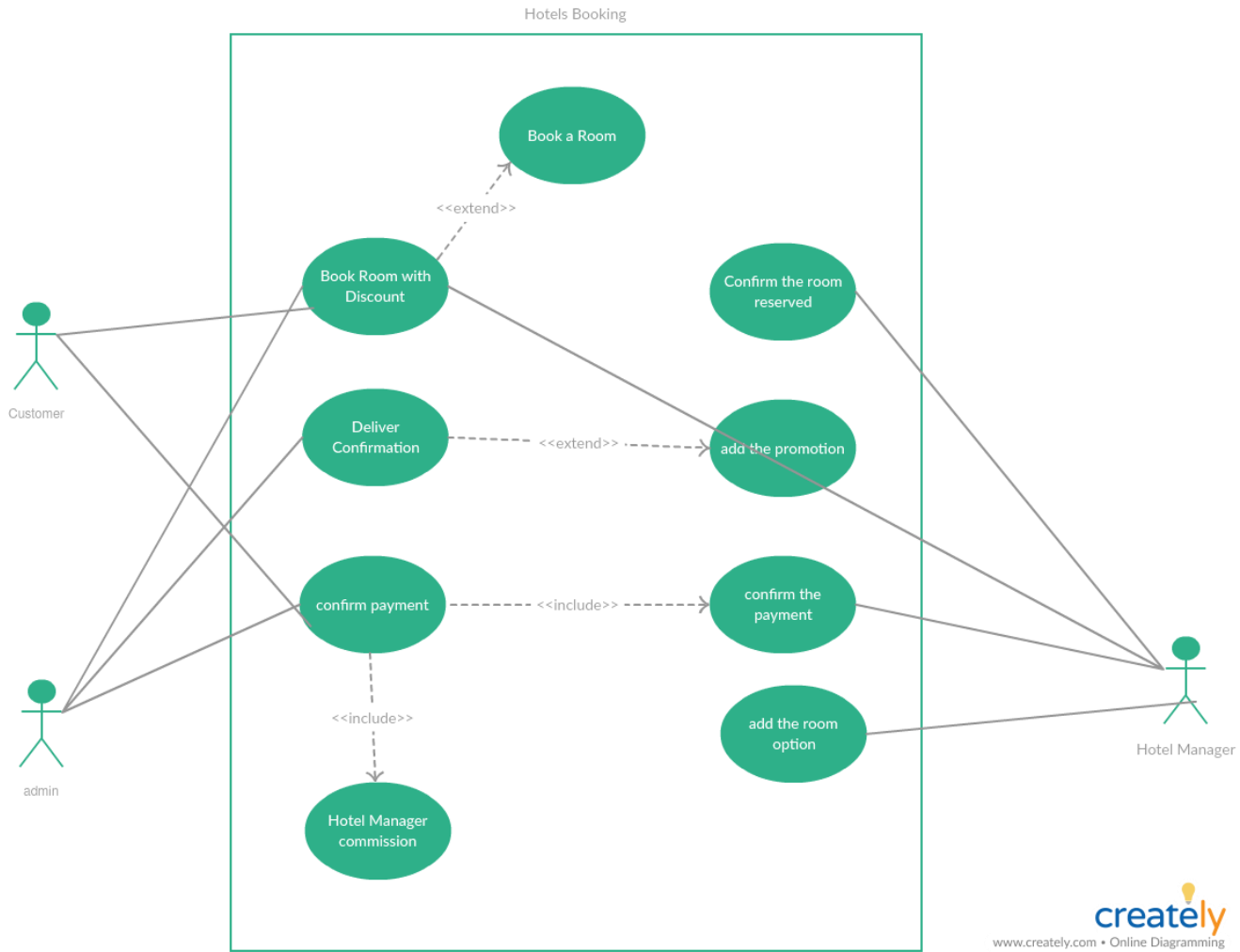
Figure 0-2 DFD diagram level 0

3.3 USE CASE DIAGRAM

3.1.3 Definition

Use case diagram is very important diagram in our system, which explains all users and their special processes, as it is clear in the following diagram:[7]

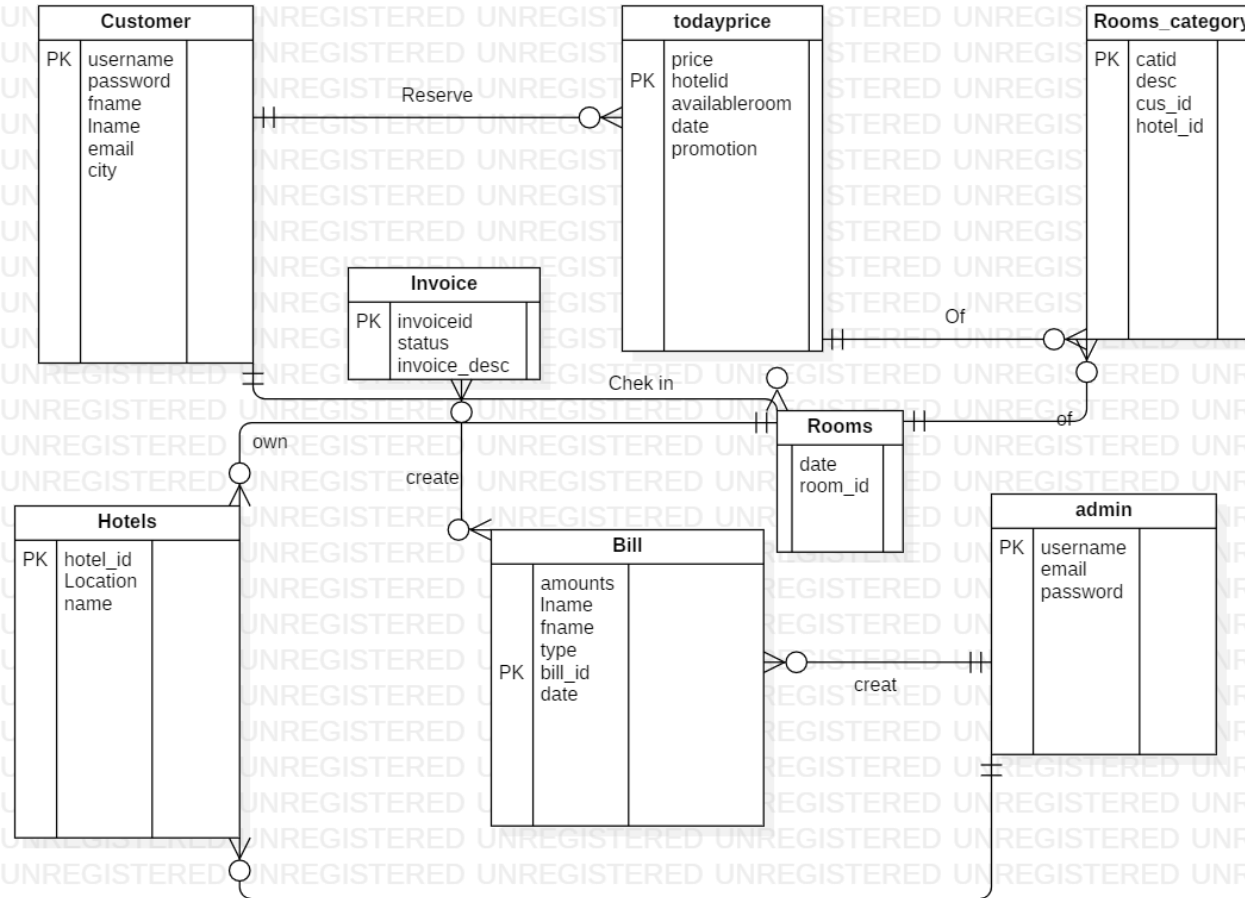
3.1.4 Use Case Diagram



3.4 ERD DIAGRAM

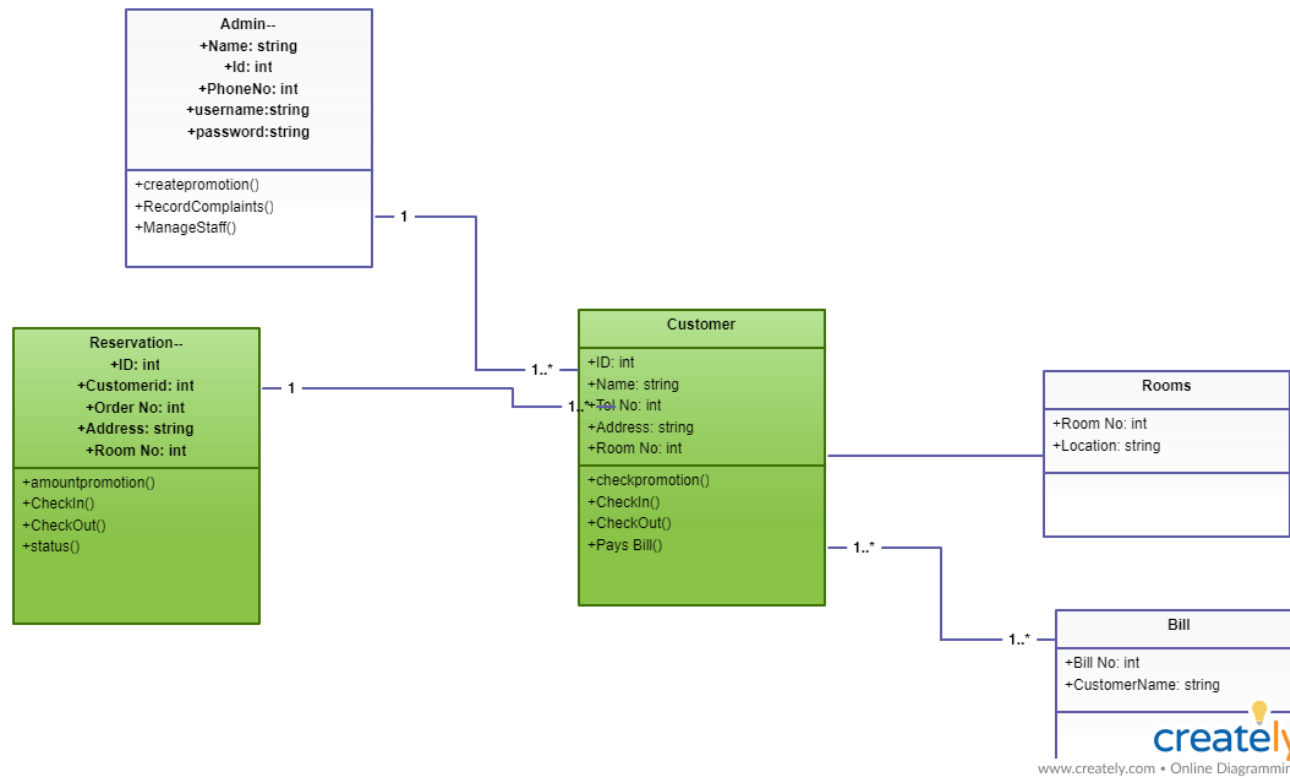
ERD diagram show us all entities with their attributes in our system in addition to the relations between them as follow:
[10]

3.1.5 Drawing ERD.



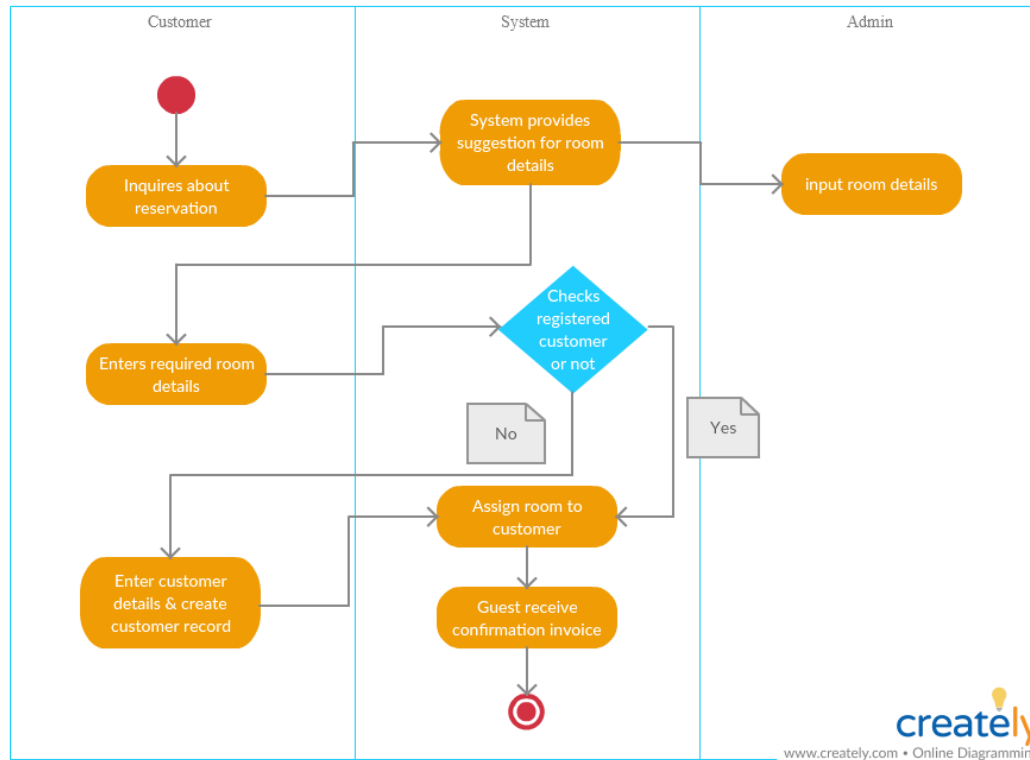
3.5 CLASS DIAGRAM

3.1.6 Drawing Class Diagram



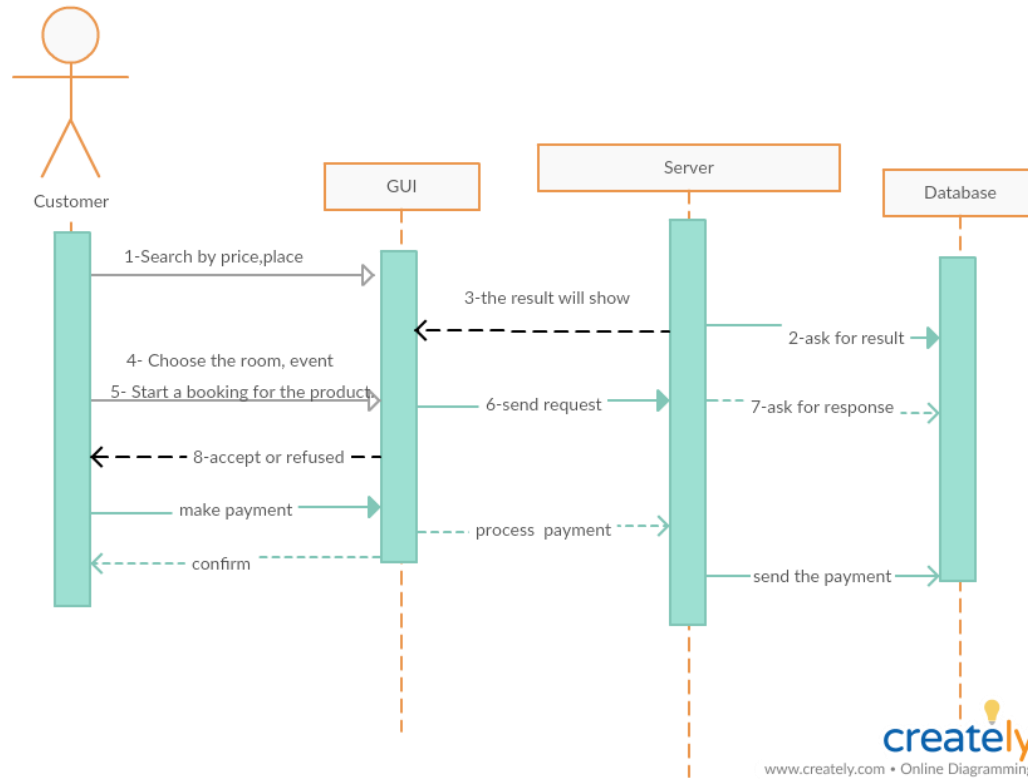
3.6 OBJECT DIAGRAM

3.1.7 Drawing Object diagram



3.7 SEQUENCE DIAGRAM

3.1.8 Sample of Sequence Diagram



CHAPTER 4

SYSTEM ANALYSIS AND DESIGN

4.1 FUNCTIONAL REQUIREMENTS

The system supports customers booking and able to modify them

- Customers can search based on hotel, apartment, inns (ex. Radisson)
- When a customer search for hotels, apartment, and the search result must contain hotel or apartment information (Address, Ratings, and Price) and also its availability within choosing check in and check out date.
- Customers able to cancel their booking from their account.
- Staffs able to edit customers booking information (updating check in, check out, room preferences, bed preferences and also cancelling booking).
- Customers can book online and pay with credit or debit card.
- The system must send booking confirmation email after successful payment.

- Customers can write reviews about hotels and apartment and also rate them.
- Customers able to check their booking status from their individual account.
- Customers can send feedback or call the company for booking purposes.
- Customers can check for latest promotion or deal.

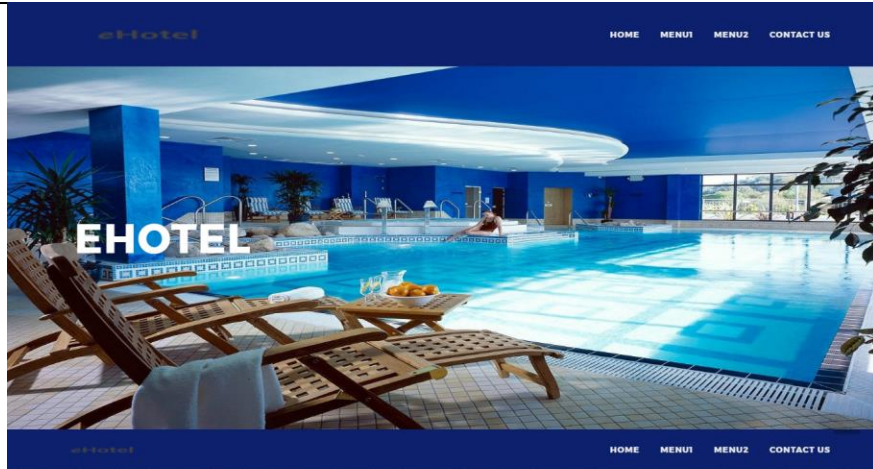
4.2 NON-FUNCTIONAL REQUIREMENTS

The system must ensure that all the transferable data as for examples customers credit or debit card number, CVV Code, e-payment should be done in secured connection.

- The system must be able to handle multiple transactions a time.
- The system must provide customers 24*7 hours online booking service.
- The system should support almost all the browsers (Internet Explorer, Safari, Chrome, and Firefox).
- The system should be able to convert the price from Malaysian to USD and RSA.

- System should send the newsletter about ongoing promotions or deal to registered customers.
- Customers need to cancel the booking before 24 hrs. otherwise their credit card will be charged for one day.
- In promotion time the system will charge credit card promptly.

4.3 LAYOUTS



EHotel

0123456789

WHAT WE DO

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has

SELECT A PACKAGE BELOW

Clean ROOM1	Best ROOM2	Best ROOM3	Awesome ROOM4
USD -10	USD -25	USD -30	USD -40
<ul style="list-style-type: none"> ✓ One Bed ✓ Attach Bathroom ✓ Attach Bathroom ✓ Attach Bathroom ✓ Attach Bathroom ✓ Attach Bathroom 	<ul style="list-style-type: none"> ✓ Personal Use ✓ Attach Bathroom ✓ Attach Bathroom ✓ Attach Bathroom ✓ Attach Bathroom ✓ Attach Bathroom 	<ul style="list-style-type: none"> ✓ Two Bed ✓ Attach Bathroom ✓ Attach Bathroom ✓ Attach Bathroom ✓ Attach Bathroom ✓ Attach Bathroom 	<ul style="list-style-type: none"> ✓ Personal Use ✓ 6 Projects ✓ Attach Bathroom ✓ Attach Bathroom ✓ Attach Bathroom ✓ Attach Bathroom
<input type="button" value="BOOK NOW"/>	<input type="button" value="BOOK NOW"/>	<input type="button" value="BOOK NOW"/>	<input type="button" value="BOOK NOW"/>

TESTIMONIALS

"Lorem ipsum dolor sit amet, consectetur adipiscing elit, quo sint voluptatum sit, perspiciatis ipsa, velit possimus dignissimos magni cum illo ab, dolore consectetur asperiores r"

- TANZILA ANNI

"Lorem ipsum dolor sit amet, consectetur adipiscing elit, quo sint voluptatum sit, perspiciatis ipsa, velit possimus dignissimos magni cum illo ab, dolore consectetur asperiores r"

- REXRIFAT

"Lorem ipsum dolor sit amet, consectetur adipiscing elit, quo sint voluptatum sit, perspiciatis ipsa, velit possimus dignissimos magni cum illo ab, dolore consectetur asperiores r"

- HABIBA HIMU

"Lorem ipsum dolor sit amet, consectetur adipiscing elit, quo sint voluptatum sit, perspiciatis ipsa, velit possimus dignissimos magni cum illo ab, dolore"

"Lorem ipsum dolor sit amet, consectetur adipiscing elit, quo sint voluptatum sit, perspiciatis ipsa, velit possimus dignissimos magni cum illo ab, dolore"

"Lorem ipsum is simply dummy text of the printing and typesetting industry, Lorem ipsum has been the industry's standard dummy text ever since the"

eHotel ☰ Welcome, Admin Rahman ▾

- Dashboard
- Manage Booking
- Manage Payment
- Manage Room
- Room Category
- Payment Method
- Manage Testimonial
- Manage Currency
- Web Setting

Mange Testimonial

Author Name :

Testimonial Description :

[Save New Testimonial](#)

<p>Habiba Himu</p> <p>lorem ipsum dolor sit amet, consectetur adipiscing elit. quos sint voluptatum sit, perspiciatis ipsa, velit possimus dignissimos magni cum illo ab, dolore consectetur asperiores r ...</p> <p>Edit Keyword Delete Keyword</p>	<p>Hasan Rahman</p> <p>lorem ipsum dolor sit amet, consectetur adipiscing elit. quos sint voluptatum sit, perspiciatis ipsa, velit possimus dignissimos magni cum illo ab, dolore consectetur asperiores r ...</p> <p>Edit Keyword Delete Keyword</p>	<p>Tanzila Anni</p> <p>lorem ipsum dolor sit amet, consectetur adipiscing elit. quos sint voluptatum sit, perspiciatis ipsa, velit possimus dignissimos magni cum illo ab, dolore consectetur asperiores r ...</p> <p>Edit Keyword Delete Keyword</p>
<p>Zannatun Naime</p> <p>lorem ipsum dolor sit amet, consectetur adipiscing elit. quos sint voluptatum sit, perspiciatis ipsa, velit possimus dignissimos magni cum illo ab, dolore consectetur asperiores r ...</p> <p>Edit Keyword Delete Keyword</p>	<p>Ridoy Candro Modok</p> <p>lorem ipsum dolor sit amet, consectetur adipiscing elit. quos sint voluptatum sit, perspiciatis ipsa, velit possimus dignissimos magni cum illo ab, dolore consectetur asperiores r ...</p> <p>Edit Keyword Delete Keyword</p>	<p>Abir Khan</p> <p>lorem ipsum dolor sit amet, consectetur adipiscing elit. quos sint voluptatum sit, perspiciatis ipsa, velit possimus dignissimos magni cum illo ab, dolore consectetur asperiores r ...</p> <p>Edit Keyword Delete Keyword</p>
<p>Rex Rifat</p> <p>lorem ipsum dolor sit amet, consectetur adipiscing elit. quos sint voluptatum sit, perspiciatis ipsa, velit possimus dignissimos magni cum illo ab, dolore consectetur asperiores r ...</p> <p>Edit Keyword Delete Keyword</p>	<p>Anik Mahbub</p> <p>Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer too ...</p> <p>Edit Keyword Delete Keyword</p>	

2017 © All Copyright Reserved.


eHotel Welcome, Admin Rahman


- Dashboard
- Manage Booking
- Manage Payment
- Manage Room
- Room Category
- Payment Method
- Manage Testimonial
- Manage Currency
- Web Setting


Manage Slider

Slider Text

Slider IMAGE N... **ONE IMAGE ONLY | Will Resized to 1920 x 750**







2017 © All Copyright Reserved.

- Dashboard
- Manage Booking
- Manage Payment
- Manage Room
- Room Category
- Payment Method
- Manage Testimonial
- Manage Currency
- Web Setting

General Setting

Website Name

Website Logo 

Change Logo No file chosen

Image Must be PNG & Resize: 225x60

Web Color

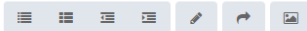
Address

Mobile

Email

Paypal Email

Top Text Normal text **Bold** *Italic* Underline



Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has

Facebook

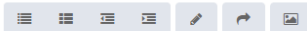
Twitter

Google Plus

Linkedin

Youtube

Footer Text Normal text **Bold** *Italic* Underline



Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s,

- Dashboard
- Manage Booking
- Manage Payment
- Manage Room
- Room Category
- Payment Method
- Manage Testimonial
- Manage Currency
- Web Setting

All Room

<p>ROOM4</p> <p>USD 40 Day</p> <p>AWESOME</p> <p>Personal Use</p> <p>6 Projects</p> <p>Attach Bathroom</p> <p>Attach Bathroom</p> <p>Attach Bathroom</p> <p>Attach Bathroom</p> <p>Attach Bathroom</p> <p>EDIT DELETE</p>	<p>ROOM3</p> <p>USD 30 Day</p> <p>BEST</p> <p>Two Bed</p> <p>Attach Bathroom</p> <p>Attach Bathroom</p> <p>Attach Bathroom</p> <p>Attach Bathroom</p> <p>Attach Bathroom</p> <p>EDIT DELETE</p>	<p>ROOM2</p> <p>USD 25 Day</p> <p>BEST</p> <p>Personal Use</p> <p>Attach Bathroom</p> <p>Attach Bathroom</p> <p>Attach Bathroom</p> <p>Attach Bathroom</p> <p>Attach Bathroom</p> <p>EDIT DELETE</p>
<p>ROOM1</p> <p>USD 10 Day</p> <p>CLEEN</p> <p>One Bed</p> <p>Attach Bathroom</p> <p>Attach Bathroom</p> <p>Attach Bathroom</p> <p>Attach Bathroom</p> <p>Attach Bathroom</p> <p>EDIT DELETE</p>		

The screenshot displays the eHotel admin dashboard. The top navigation bar includes the eHotel logo, a menu icon, and a user profile for Admin Rahman. The left sidebar lists various management options: Dashboard, Manage Booking, Manage Payment, Manage Room, Room Category, Payment Method, Manage Testimonial, Manage Currency, and Web Setting. The main content area is titled 'Create Payment Method' and contains a form with two input fields: 'Method Name' and 'Method Number'. A blue 'Create Method' button is positioned below the input fields.

eHotel Welcome, Admin Rahman

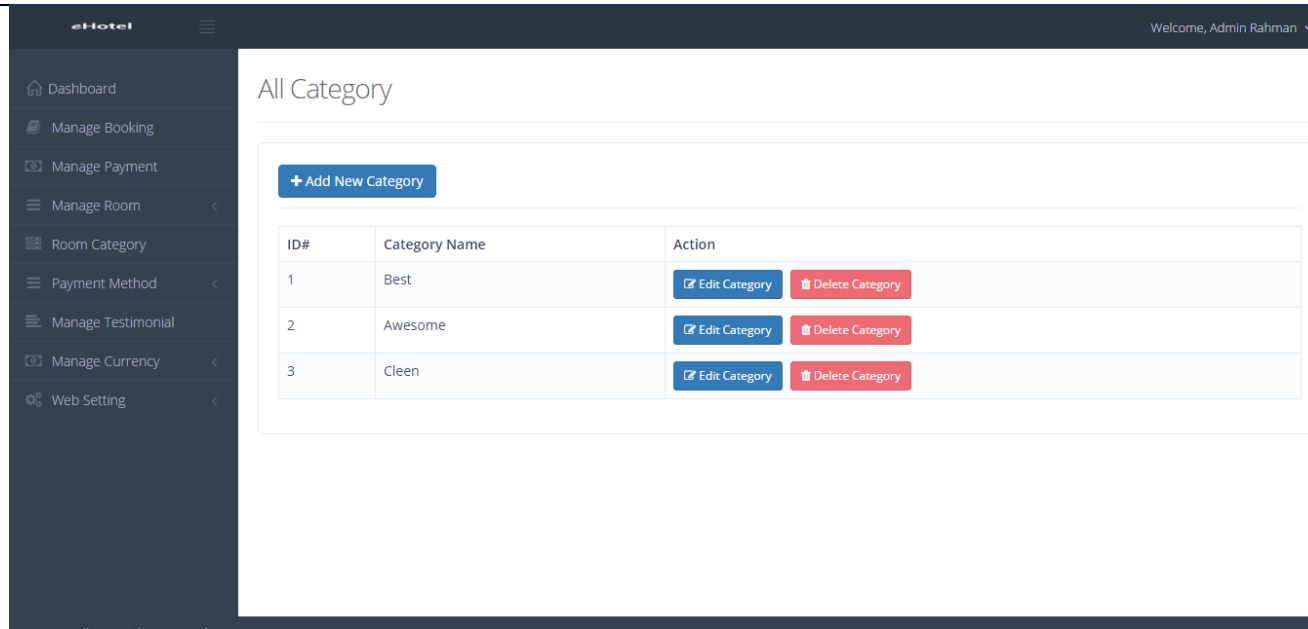
Dashboard
Manage Booking
Manage Payment
Manage Room
Room Category
Payment Method
Manage Testimonial
Manage Currency
Web Setting

Create Payment Method

Method Name :

Method Number :

[Create Method](#)



3.2 RELATION DATABASE SCHEMA

4 as_comments

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
comment_id	int(11)		No		auto_increment			
posted_by	int(11)		No					
posted_by_name	varchar(30)		No					
comment	text		No					
post_time	datetime		No					

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

5 as_login_attempts

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id_login_attempts	int(11)		No		auto_increment			
ip_addr	varchar(20)		No					
attempt_number	int(11)		No	1				
date	date		No					

6 as_users

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
user_id	int(11)		No		auto_increment			
email	varchar(40)		No					
username	varchar(250)		No					
password	varchar(250)		No					
confirmation_key	varchar(40)		No					
confirmed	enum('Y', 'N')		No	N				
password_reset_key	varchar(250)		No					
password_reset_confirmed	enum('Y', 'N')		No	N				
register_date	date		No					
user_role	int(4)		No	1				
last_login	datetime		No	0000-00-00 00:00:00				

7 as_user_details

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id_user_details	int(11)		No		auto_increment			
user_id	int(11)		No					
first_name	varchar(35)		No					
last_name	varchar(35)		No					

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

phone	varchar(30)		No					
address	varchar(30)		No					

8 as_user_roles

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
role_id	int(11)		No		auto_increment			
role	varchar(10)		No					

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

9 booking_check_availability

Last update: Apr 04, 2019 at 02:37 PM

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
check_availability_id	bigint(11)		No		auto_increment			
check_in_date	date		Yes	NULL				
check_out_date	date		Yes	NULL				
room_type_id	int(11)		No	0				
total_room	int(3)		No	0				
blocked_inventory	int(11)		No	0				

10 booking_master

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
booking_id	bigint(11)	UNSIGNED	No		auto_increment			
check_in_date	date		No					
check_out_date	date		No					
booking_date	datetime		No					
room_type_id	int(8)		No					
total_rooms	int(11)		No					
total_guest	int(11)		No					
adults	int(11)		No					
kids	int(11)		No					
currency	varchar(3)		No					
booking_tax	decimal(10, 2)		No	0.00				
total_price	decimal(10, 2)		No					
nights	int(11)		No	0				
price_room1	decimal(10, 2)		No	0.00				
price_room2	decimal(10, 2)		No	0.00				
price_room3	decimal(10, 2)		No	0.00				
price_room4	decimal(10, 2)		No	0.00				
first_name_owner	varchar(300)		No					
last_name_owner	varchar(300)		No					
preferences_owner	varchar(1000)		No					
email_owner	varchar(300)		No					

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

phone_owner	varchar(100)		No					
transaction_id	varchar(64)		No					
itinerary_id	bigint(20)		No					
itinerary_approved	bigint(20)		No					
booking_status	int(11)		No	0				

deleted	tinyint(1)		No	0				
ip_address	varchar(100)		No					

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

11 cities

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
city_id	bigint(20)		No		auto_increment			
city_name	varchar(300)		No					
state_id	varchar(2)		No					
country_code	char(2)		No					
city_active	tinyint(1)		No	1				
city_deleted	tinyint(1)		No	0				

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

12 countries

Last update: Apr 04, 2019 at 02:37 PM

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	int(3)		No		auto_increment			
country	varchar(30)		No					
countrycode	varchar(2)		No					
phonecode	int(3)		No					
tax	double(5,2)		Yes	0.00				
taxname	varchar(20)		Yes	NULL				

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

13 **css_list**

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
css_id	bigint(20)		No		auto_increment			
css_name	varchar(100))		No					
css_link	varchar(100))		No					

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

14 css_textures

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	bigint(20)		No		auto_increment			
texture_name	varchar(100)		No					
texture_link	varchar(100)		No					

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

15 currency

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	int(11)		No		auto_increment			
code	varchar(3)		No					

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

16 email_recipients

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	int(11)		No		auto_increment			
email_address	varchar(200)		No					
site_name	varchar(200)		No					
reply_email	varchar(200)		No					
from_email	varchar(200)		No					
active	tinyint(1)		No	1				
deleted	tinyint(1)		No	0				

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

17 email_template

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	int(11)		No		auto_increment			
email_type	varchar(100)		No					
email_subject	varchar(200)		No					
email_message	text		No					
email_subject_es	text		Yes	NULL				
email_message_es	text		Yes	NULL				

18 general_settings

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
settings_id	bigint(20)		No		auto_increment			
settings_logo	varchar(100)		No					
settings_icon	varchar(100)		No					
settings_css	varchar(200)		No					
settings_css_texture	varchar(100)		No					
settings_phone	varchar(100)		No					
settings_script	text		No					
settings_copyri ght	varchar(200)		No					
settings_twitter	varchar(100)		No					
settings_facebo ok	varchar(200)		No					
settings_google	varchar(200)		No					
settings_email	varchar(100)		No					
settings_from_mail	varchar(100)		No					
settings_banner	varchar(200)		No					
settings_banner_title	varchar(50)		No					
settings_banner_txt	varchar(100)		No					
special_offer	varchar(200)		No					
special_offer_txt	text		No					

special_offer2	varchar(200)		No					
special_offer_tx t2	text		No					

settings_slide1	varchar(100)		No					
settings_slide1_ link	varchar(500)		No					
settings_slide1_ txt	text		No					
settings_slide2	varchar(100)		No					
settings_slide2_ link	varchar(500)		No					
settings_slide2_ txt	text		No					
settings_slide3	varchar(100)		No					
settings_slide3_ link	varchar(500)		No					
settings_slide3_ txt	text		No					
settings_slide4	varchar(100)		No					
settings_slide4_ link	varchar(500)		No					
settings_slide4_ txt	text		No					
settings_map	varchar(100)		No					
date	date		No					
settings_banner_ title_es	text		Yes	NULL				
settings_banner_ txt_es	text		Yes	NULL				
special_offer_tx t_es	text		Yes	NULL				
special_offer_tx t2_es	text		No					
settings_slide1_ txt_es	text		No					

settings_slide2_txt_es	text		No				
settings_slide3_txt_es	text		No				
settings_slide4_txt_es	text		No				

19 hotels

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
hotel_id	bigint(20)		No		auto_increment			
hotel_name	varchar(300)		No					
hotel_short_description	text		Yes	NULL				
hotel_information	text		Yes	NULL				
hotel_low_price	decimal(10,2)		No					
hotel_country	char(2)		No					
hotel_state	varchar(2)		No					
hotel_city	int(11)		No					
hotel_address	varchar(500)		No					
hotel_zipcode	int(11)		No					
latitud	varchar(100)		No					
longitud	varchar(100)		No					
hotel_stars	decimal(10,1)		No					
hotel_reviews	bigint(20)		No	0				
hotel_review_score	decimal(10,1)		No	0.0				
max_adults	int(11)		No					
max_children	int(11)		No					
max_guests	int(11)		No					
max_rooms	int(11)		No					

hotel_informati on_es	text		Yes	NULL				
policy_cancel_e s	text		Yes	NULL				
policy_cancel	text		No					
active	tinyint(1)		No	1				
hotel_image_path	varchar(100)		No					
hotel_tax	decimal(10, 2)		No	0.00				
deleted	tinyint(1)		No	0				
hotel_short_des cription_es	text		Yes	NULL				

20 hotel_amenities

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
amenity_id	bigint(20)		No		auto_increment			
hotel_id	bigint(20)		No					
amen_description	varchar(500)		No					
amen_active	tinyint(1)		No	1				
amen_deleted	tinyint(1)		No	0				
amen_descriptions	text		Yes	NULL				

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

21 hotel_images

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
hotel_image_id	bigint(20)		No		auto_increment			
hotel_id	bigint(20)		No					
hotel_image_url	varchar(500)		Yes	NULL				
hotel_ima_active	tinyint(1)		No	1				
hotel_ima_status	tinyint(1)		No	1				
hotel_ima_deleted	tinyint(1)		No	0				

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

22 hotel_room_price

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
price_id	bigint(20)		No		auto_increment			
price_description	varchar(500)		Yes	NULL				
room_type_id	bigint(20)		No					
room_person	bigint(20)		No					
room_price	decimal(10,0)		No					
priority	varchar(100)		No					
price_status	char(1)		No	Y				
created	datetime		No					
price_deleted	tinyint(1)		No					

23 hotel_room_type

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
room_type_id	int(8)		No		auto_increment			
hotel_id	bigint(20)		No					
room_type_name	varchar(500)		Yes	NULL				
room_type_short_description	varchar(500)		Yes	NULL				
room_type_description	text		Yes	NULL				
room_type_code	varchar(50)		Yes	NULL				
room_type_capacity	int(5)		No	0				
max_adults	int(11)		No	0				
max_kids	int(11)		No	0				
room_type_inventory	int(6)		No	0				
room_thumb	varchar(500)		No	rooms.jpg				
room_type_status	int(1)		No	1				
max_age_kids	int(11)		No	9				
active	tinyint(1)		No	1				
deleted	tinyint(1)		No	0				
room_type_name_es	text		Yes	NULL				
room_type_short_description_es	text		Yes	NULL				
room_type_description_es	text		Yes	NULL				

24 hotel_seasonal_price

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
seasonal_price_id	bigint(20)		No		auto_increment			
room_type_id	bigint(20)		No	0				
room_person	int(11)		No	0				
seasonal_price	decimal(10,2)		No	0.00				
seasonal_from	date		Yes	NULL				
seasonal_to	date		Yes	NULL				
seasonal_price_deleted	tinyint(1)		No	0				

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

25 hotel_stars

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
star_id	bigint(20)		No		auto_increment			
star_name	varchar(3)		No					

26 itineraries

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
itinerary_id	bigint(20)		No		auto_increment			
itinerary_description	varchar(200)		No	Itinerary Inactive				
check_in_date	date		No					
check_out_date	date		No					
room_type_id	bigint(20)		No					
rooms_number	int(11)		No					
total_adults	int(11)		No	0				
total_children	int(11)		No	0				
currency	varchar(3)		No					
itinerary_tax	decimal(10, 2)		No	0.00				
total_amount	decimal(10, 2)		No					
nights	int(11)		No					
price_night1	decimal(10, 2)		No	0.00				
price_night2	decimal(10, 2)		No	0.00				
price_night3	decimal(10, 2)		No	0.00				
price_night4	decimal(10, 2)		No	0.00				
first_name_owner	varchar(300)		No					
last_name_owner	varchar(300)		No					
phone_owner	varchar(30)		No					
email_owner	varchar(300)		No					

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

key_time	varchar(100)		No					
key_access	varchar(100)		No					
itinerary_status	tinyint(1)		No	0				
inventory_deleted	tinyint(1)		No	0				
itinerary_date	datetime		No					

27 ml_langcodes

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
code	varchar(5)		No					
name	varchar(40)		No					

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

28 ml_languages

Last check: Apr 04, 2019 at 02:37 PM

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	int(11)		No		auto_increment			
string	text		Yes	NULL				
en	text		Yes	NULL				
es	text		Yes	NULL				

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

29 newsletter

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id_mail	bigint(20)		No		auto_increment			
news_email	varchar(100)		No					
news_ip	varchar(100)		No					
date	varchar(10)		No	00-00-0000				
time	time		No					

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

30 page_map

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
map_id	bigint(20)		No		auto_increment			
latitude	varchar(50)		No					
longitude	varchar(50)		No					
address	varchar(200)		No					
zoom	varchar(50)		No					
zoom_clic	varchar(2)		No					

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

31 page_settings

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
page_id	bigint(20)		No		auto_increment			
page_name	varchar(100)		No					
page_link	varchar(100)		No					
page_title	varchar(100)		No					
page_keywords	varchar(500)		No					
page_meta_desc	text		No					
page_script	text		No					
page_heading	varchar(200)		No					
page_banner	varchar(200)		No					
page_text	text		No					
page_sidebar	text		No					
date	date		No					
page_title_es	text		Yes	NULL				
page_keywords_es	text		Yes	NULL				
page_meta_desc_es	text		Yes	NULL				
page_heading_es	text		Yes	NULL				
page_text_es	text		Yes	NULL				
page_sidebar_es	text		Yes	NULL				

32 payment_currency

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	bigint(20)		No		auto_increment			
currency_code	varchar(3)		No					

33 payment_gateway

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	bigint(20)		No		auto_increment			
gateway_name	varchar(200)		No					
active	tinyint(1)		No					

34 paypal_gateway

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	bigint(20)		No		auto_increment			
paypal_email	varchar(200)		No					
currency_code	varchar(50)		No					

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

35 reviews

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
review_id	bigint(20)		No		auto_increment			
quality	int(11)		No					
nickname	varchar(300)		No					
review	text		No					
date_review	datetime		No					
active	tinyint(1)		No	1				
deleted	tinyint(1)		No	0				

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

36 states

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	int(11)		No		auto_increment			
name	char(40)		No					
abbrev	char(2)		No					
country	char(2)		No					

37 transactions

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
transaction_id	bigint(20)		No		auto_increment			
itinerario_id	bigint(20)		No					
operator_transaction_id	varchar(64)		Yes	NULL				
pp_payment	varchar(3)		No					
cardholder_first_name	varchar(150)		No					
cardholder_last_name	varchar(150)		No					
country	varchar(300)		Yes	NULL				
state	varchar(300)		Yes	NULL				
city	varchar(300)		Yes	NULL				
address	varchar(1000)		Yes	NULL				
zipcode	varchar(20)		Yes	NULL				
phone	varchar(20)		No					
email	varchar(100)		No					
ip	varchar(16)		No					
random_transaction	varchar(64)		No					
cantidad	int(11)		No					
selected_currency	varchar(3)		No					
total_tax	decimal(10, 2)		No	0.00				
precio_total	decimal(10, 2)		No					

Creation: Apr 04, 2019 at 02:37 PM

Last update: Apr 04, 2019 at 02:37 PM

type_transaction	varchar(20)		No					
auth_code	int(11)		No					
completed	tinyint(4)		No					
success	tinyint(4)		No					
message	varchar(200)		No					

pp_email	varchar(100)		No				
transaction_process	int(1)		No	0			
cancelled	tinyint(4)		No				
cancelled_code	int(11)		No				
deleted	tinyint(4)		No				
phantom	tinyint(4)		Yes	NULL			
created	datetime		No				

4.4 HARDWARE AND SOFTWARE REQUIREMENTS

4.4.1 Hardware Requirements

- Computer
 - 2GHz Processor with three cores.
 - 8 GB RAM.
 - 500 GB HDD space.
 - Monitor with good resolution.

1.1 SOFTWARE REQUIREMENTS

- php
- MYSQL
- Notepad++.

4.5 CONCLUSION

In this reports we discuss the idea of Application for Promotional hotel booking, we explain the problems of the project and determine the solution, and then we draw diagrams to illustrate the stages of work. Our feature work is implementation our website using suitable tools

4.6 REFERENCES

The Joy of PHP Programming: A Beginner's Guide – by Alan Forbes

Head First PHP & MySQL – by Lynn Begley & Michael Morrison

Learning PHP, Myself, JavaScript, and CSS: A Step-by-Step Guide to
Creating Dynamic Websites – by Robin Nixon

PHP & Myself Web Development – by Luke Welling & Laura Thompson

PHP & Myself: The Missing Manual – by Brett McLaughlin

PHP: A Beginner's Guide – by Vicar Aswan

[PHP Overview](#) - Overview of all things PHP

[PHP IDE 1](#) - looks at what Eclipse and Zend have brewed together

[PHP IDE 2](#) - Dreamweaver CS4 beta adds LiveView and some other PHP
features

[PHP IDE 3](#) - Borland/CodeGear's Delphi for PHP has the most complete
PHP IDE

[PHP Meetup](#) - new an example of the community support that makes PHP so
popular

[GUI Revolution](#) - could PHP, JSP and all the rest be replaced by multi-touch
RAIA ?

[PHP Basics](#) - the basic design of the PHP language, how it works in general

[Php News](#) - Events, calendar and news in the world of PHP

[PHP Links](#) - Links and references to other PHP tutorials sites and software
vendors

[PHP5](#) - the new PHP 5 adds a whole new OO re-engineered design, SQLite,
XML-processing, command line

[PHP Arrays](#) - tips about php array processing and functions

[PHP Associative Arrays](#) - all about associative arrays and functions which

preserve associative keys

[PHP Array Examples](#) - examples of arrays used to fill Form drop down lists/select boxes

[PHP Array Sorting](#) - you have to be careful with associative array, here are some safe sorting methods

[PHP Content Management](#) - PHP has a very rich set of free content management systems

[PHP Colors](#) - show how to display all the Web safe colors using nested loops and concatenation

[PHP CLI](#) - > PHP as Command Line Interpreter is a big benefit in PHP 5 => easier testing, adhoc utilities

[PHP compared to JavaScript](#) - compares syntax and architectures of PHP and JavaScript

[PHP Logic & Bitwise Operations](#) - PHP has a robust set of logic and bitwise operators

[PHP Loop Syntax](#) - PHP 5 adds to the foreach clause as we summarize flow & looping syntax

WEBSITES:

www.google.com

[PHP.NET](#) - the starting place for news, views, events, and links to all things PHP

[Hotscripts](#) - over 11,000 PHP scripts, most free, and very well classified and rated

[PHPBuilder](#) - the digested news and articles here mix well with scripts and tips.

<http://www.barmaje.com/topics/56>





https://en.wikipedia.org/wiki/Unified_Modeling_Language

<https://creately.com/>




<https://www.smartsurvey.co.uk/>

6 PROMOTION HOTEL MANAGEMENT SYSTEM





1. ماهو الاستفاده التي تعود على المستخدم من هذا الموقع

						Response Percent	Response Total	
1	ايجاد غرفه بسعر رخيص					66.67%	6	
2	التعرف على اسعار الغرف والعروض					55.56%	5	
3	كسب نقاط مقابل حجز الغرفه					33.33%	3	
4	الحصول على غرفه مجانيه					33.33%	3	
Analysis	Mean:	4.11	Std. Deviation:	3.06	Satisfaction Rate:	74.07	answered	9
	Variance:	9.34	Std. Error:	1.02			skipped	0

2. ماهو الفارق بين نظام الموقع المستهدف ونظام مثل بوكينج او اجودا

						Response Percent	Response Total	
1	النظام له مميزات اكثر من بوكينج					55.56%	5	
2	النظام يقدم خدمة الحجز المسبق بدون دفع اى مقابل					11.11%	1	
3	النظام يقوم بالتركيز على الغرف التى عليها عروض					55.56%	5	
Analysis	Mean:	2.44	Std. Deviation:	1.16	Satisfaction Rate:	61.11	answered	9
	Variance:	1.35	Std. Error:	0.39			skipped	0

3. ماهى الطريقة التى تفضلها للدفع عن طريق الموقع

						Response Percent	Response Total
1	باى بال					33.33%	3
2	الدفع بالفيزا كارت					44.44%	4
3	تحويل بنكى					22.22%	2
4	الدفع نقدا					55.56%	5

3. ماهى الطريقه التى تفضلها للدفع عن طريق الموقع

						Response Percent	Response Total	
Analysis	Mean:	4.11	Std. Deviation:	2.34	Satisfaction Rate:	85.19	answered	9
	Variance:	5.49	Std. Error:	0.78			skipped	0