A DYNAMIC DATABASE AND VIRTUAL INTERFACE FOR ONLINE RESERVATION SYSTEM

CASE STUDY: SAHARA RESORT & CONFERENCE CENTER

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A Graduation project Report submitted to the School of computer studies in partial fulfillment of the requirements for the Award of the Bachelor Degree of Information Technology of Kampala International University

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APPROVAL

This Graduation Project Report has been submitted to the school of computer studies for examination under approval as the University supervisor.

Signed.....

MS. WABULE ESTHER

(Supervisor)

Date.....02/06/2011.....

DECLARATION

I hereby declare with truth that this work has original of my effort and has never been submitted to any academic institution for any ward of certificate or whatsoever.

EMMANUEL TOMBE DARIOUS

Sign..Emmanuel.....

Date..01.06.2011.....

DEDICATION

To my beloved mother Ms. Aurelia Limiyo my Sisters, Brother, Relatives, Friends and all those who help me through this process in one way or the order and above all to **God the Merciful for his graces and gift of life.**

May almighty God bless you all!!!!

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I have been fortunate to Ms. Esther Wabule a lecturer (my supervisor) whose intellectual discussion was instrumental over various aspect of the project without her patience and guidance this work could have remain unexpressed

I would like to thank all those who were very helpful to me in the successful completion of this project. Without their patience and guidance, completion of this project would have been an arduous task.

A word of gratitude to all who help me financial, material and spiritual in my education may God grant you all wish all the day long, my especial thanks to my friends who also encourage me in one way the other particularly Mr.Papa Kodo, Emmanuel Gei, Hellen Idongi, Hilry Swoka, Khamis Arkangelo, John Tabu, Philip Swoka, Enock Jimmy and Tombe Blaise to mention bu the few may God bless You all.

ABSTRACT

Online Reservation System is a complete web-based solution. It is developed for seamless online reservation, communication and payment solution for rooms and hall booking.

Online Reservations Systems contain details of the rooms, halls, services offers by the resort and fare tariffs on the web based system, customers' reservations and reservation details records. The inventory contains all the executive, presidential suites and restaurants.

The data is imported to the database through forms with interface features and maintained over scandalizes interfaces. These online sites' for reservation has a database module which is to be control and manage by the administrator, for customers to reach reservation must pass login feature and registration. The site pages is script and providing a dynamic links to the next requested page database and dynamic reporting.

TABLE OF CONTENTS: **Page**

Title page.....I

Approval.....II

Declaration.....III

Dedication.....IV

Acknowledgment.....V

Abstract.....VI

Table of Contents.....VII

Definition of Terms.....VIII

List of Acronyms.....IX

CHAPTER ONE: INTRODUCTION 1

1.0. Introduction.....1

1.1. Background.....1

1.2. Statement of the problem.....3

1.3. Purpose of the study.....3

1.4. General Objective.....3

1.5. Specific Objectives of the study.....3

1.6. Research Questions.....4

1.7. Scope of the study.....4

1.8. Significant of the study.....4

1.9. Conceptual Framework.....5

CHAPTER TWO: LITERATURE REVIEW.....6

2.0. Introduction.....6

2.1. Overview.....6

2.2. Theoretical Review.....6

2.3. Review of Related Literature.....6

CHAPTER THREE: METHODOLOGY.....10

3.0. Introduction.....10

3.1. Planning and Analysis of the System.....10

3.2. Development Methodology and tools.....10

3.3 System Requirements.....10

3.4 Registration.....11

3.5 Flow chart.....12
3.6 Validity and Reliability.....13
3.7. Limitations.....13
CHAPTER FOUR: SYSTEM ANALYSIS, DESIGN AND IMPLEMENTATION
4.0 Introduction.....14
4.2 Study Analysis.....14
4.2 Database Design.....15
4.3 Descriptions of Database Table.....15
4.4 Figure of Database Table.....16
4.5 Customized Interfaces.....17
4.5.1 Home Page Screen shot.....17
4.5.2 Services Page Layout.....18
4.5.3 Data Entry Form Layout.....19
4.5.4 Database Table Layout.....20
4.5.5 Data View Screen shot.....21
4.5.6 Data Search Engine Screen shot.....22
4.5.7 Road Map Page.....23
4.5.8 Contacts Page Screen shot.....24
4.5.9 Administrator Login.....24
4.6 System Implementation.....25
4.7 Task Require for Implementation.....25
4.8 Database Implementation.....25
4.9 Testing and Evaluation.....26
4.10 Integrated Testing.....26
CHAPTER FIVE: DISCUSSION, RECOMMENDATIONS AND CONCLUSION
5.0 Introduction.....27
5.1 Discussion.....27
5.2 Limitations of the Study.....27
5.3 Future Works.....27
5.4 Recommendation.....28
5.5 Conclusion.....28

1.1 Definition of Terms:

s/n	TERM	DEFINITION
1	**Juba**	This the capital city of southern Sudan
2	**Prerequisite**	Require as a prior condition
3	**Equestrian**	Representing a person on horseback
4	**Suite**	A set of room for one person or family's use
5	**Reservation**	Action of reserving something
6	**Conveniently**	Fitting in well with a person's needs, activities and plans
7	**Interface**	A program that allow user to communicate with computer
8	**Tier**	Levels stacked one above other
9	**Clientele**	A customer of the shop or restaurant
10	**Ambience**	The character and atmosphere of a place.

LIST OF ACRONYMS:

s/n	Acronyms	In Full
1	GUI	Graphical User Interface
2	MYSQL	Structure Query Language
3	PHP	Preprocessor Hypertext
4	SSL	Secure Socket Layer
5	IBM	International Business Machine
6	CRS	Computerize Reservation System
7	SAGE	Semi Automatic Ground Environment

CHAPTER ONE: INTRODUCTION

1.0 INTRODUCTION:

In almost every modern world hotels and airline are fully automated utilizing the information system facility which helps big hotels and companies advent in business with low cost as such reducing cost of employment of more staffs.

Sahara resort and conference center deeply faces problems in their reservation system due to use of manual system where cases of data loss and delays in retrieval of customers and reservation details and inadequate management of information system and facilitations.

Therefore the purpose system will eventually or helps in the resort contributing to the company, alleviating the reservation problems as such provide proper infrastructure of information system and user friendly interface feature, adequate management of data, quick data retrieval and long term storage of information or datum.

As the system will be use in Sahara resort, the resort will be one of the most pioneer resort in southern Sudan meeting international competitors choice, and their services as rapid technical concerned will be attracting more clients from both national and international level who wish to tour in juba? .

1.1 BACKGROUND:

Sahara resort and conference center conveniently located only 9km from the Juba town offers the ultimate in leisure, conference and business meeting facilities in southern Sudan.

The resort offers the best conferencing facilities for National and International clientele, providing a professional but friendly ambience that spells "pleasure and comfort" while at work. We offer you a choice of luxury accommodation to suit individuals, couples, families or group on either long or short stay cottages, one bedroom and two bedroom apartments or studio rooms.

The Sahara resort and conference center offers 10 state of the art conference rooms including a 1, 000 seat ballroom and a multifunction meeting rooms accommodating groups of 10 to 30. Leisure facilities include Sudan's only Olympic size swimming pool, an equestrian center and choice of bars and restaurants. Our business center offers internet surfing, faxing, photocopying and electronic mail services.

The resort's spectacular setting and unparallel service and cuisine are also the ideal ingredients for magical storybook wedding or special events. We offer a choice of elegant rooms and beautiful outdoor locations that will provide the perfect setting for our function.

As one would expect, first class food and beverage in high priority at Sahara resort. In addition to the bars and restaurants we also offer excellent room services including butler service if required, so that guests may entertain within their own rooms or suit.

Bar and restaurant facilities include the quite royal club the main white bull restaurant with corner bar impressively suspended above it, the mirror bar outside the white bull restaurant, the marina seafood restaurant overlooking River Nile and the Nile side grill offering light snacks and poolside refreshment, the stables restaurant with a wide ranging international cuisine and the Viking bar where one can enjoy a quite dirk.

For one to stay in ultimate luxury of Sahara resort the resort offers a choice of 50 executive suites and 4 presidential suites. Wedding reception s and parties large or small all catered for in an atmosphere and absolute luxury at Sahara resort, it also offers a choice of location ranging from banqueting halls to a marquee outside in the wonderful landscaped gardens.

1.2 STATEMENT OF THE PROBLEM:

The definition of the problem lies on the manual system and fully automated system. The manual system: the system takes more time to reserve the room or hall and lazy so the performance is slow and inefficient. This system prone to errors and sometimes the approach to various problems is unstructured.

Technical system: with the advent of latest technology if not update the system that contains business result of Sahara resort and conference center will be in losses gradually with time.

The technical system contains the tools of latest trend i.e. computer printers, fax, internet and other computing devices, the system with this technology is very fast, accurate, user friendly and reliable.

1.3 PURPOSE OF THE STUDY:

The purpose of the study is to make online web based reservation system which can be use by the customers regardless of their being in person or presence and to be in position to resolve the current system problems facing the Sahara resort resolves to improve their old system due to growing demand and desire to improve their services to their clients and also to enhance the productivity of their employees.

1.4 GENERAL OBJECTIVE:

The new system will help Sahara resort to operate efficiently by eliminating all the time consuming procedures provide clients with choice of reservation regardless of their destination to be able to provide better services to their customers as well as the employees in the company.

1.5 SPECIFIC OBJECTIVES:

1. To design online web based application for reservation system which can allows customers to make booking of rooms or hall online without coming in person to reserve.

2. To design the reservation forms with features of user friendly interface which can easily be understood by customers.
3. To have a system that can be able to handle large volume of data contains customers' details and generates different kinds of report.
4. To handle details of the rooms and services offers by the Sahara resort.
5. And to raise Sahara resort to International competitor's level.

1.6 RESEARCH QUESTIONS:

1. Can the new system resolve the problem of the time consumption of the reservation process?
2. Will the new system be able to meet all the user requirements?
3. How will the new system be benefiting to the company in terms of economic aspects?
4. Can this new system be able to deliver full services to the customers with efficiency?
5. Will the new system be reliable?

1.7 SCOPE OF THE STUDY:

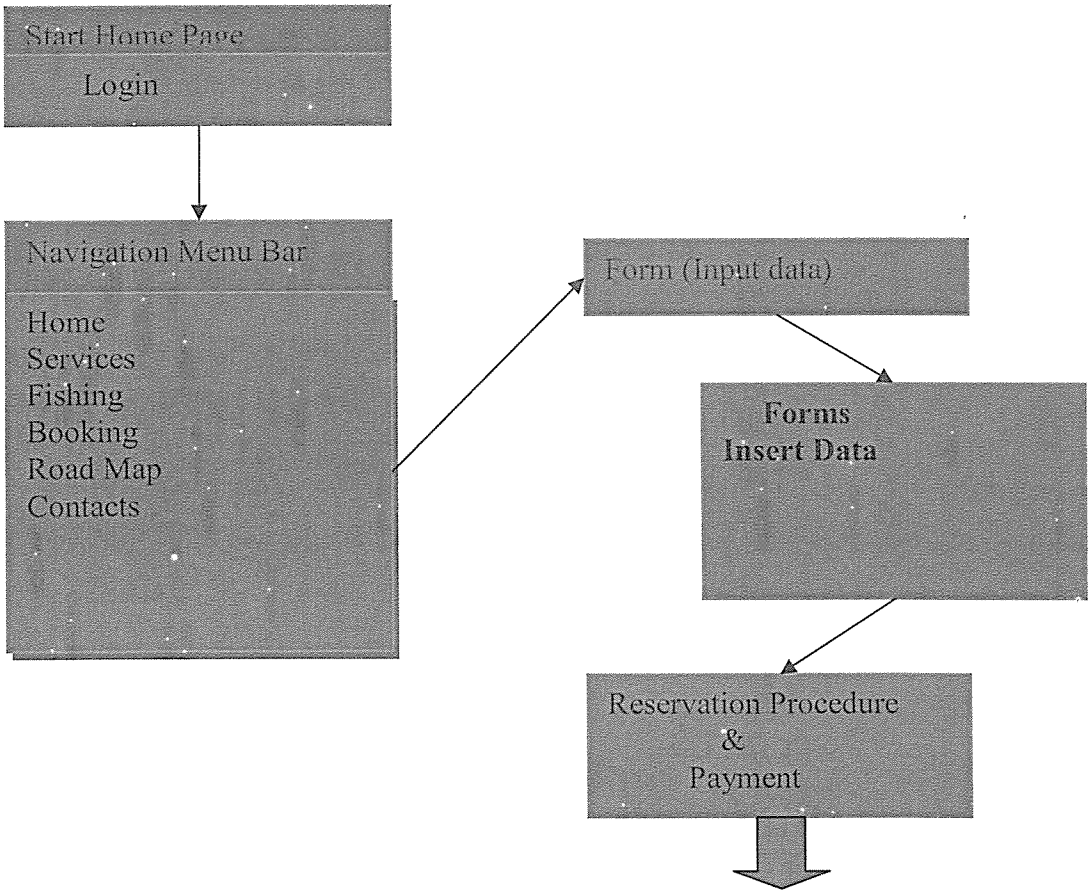
The study will covers all the system planning, development, analysis, testing and implementation. The problem that will be encounter during testing or development phase will also be given a better recommendation such that other researches who will be researching on this same issue benefit and be alert.

1.8 SIGNIFICANTS OF THE STUDY:

- To deliver a user friendly interface feature which? Can easily be understood by the customers and allowing the customers easily search for the details and reserve without delay.
- To handle large data volume with integrity, easy retrieval, management and centralization of the database so that records are kept in secure place and for long term storage.
- To eliminate the old system time consumption by allowing multiple customers book online at ago without any inconveniences

- Will provide choice of reservation to the customer at any time with high speed efficiency and reliability.
- To other researchers also benefit from this system as well as other interested company that might wish to employ this system to their business.

1.9 CONCEPTUAL FRAMEWORK:



The above illustration shows the concepts of the procedures of how the system behavior allowing the customers/users to reach reservation procedures there are user friendly interface that makes it easier to customers to manipulate or move around the system, first starting the main page of the viewing the what the resort is offering and services available in the site and thereafter the user interface features is also appears on that same page to the customers giving them option for what they want to do but before must login In order to proceeds, this basically how simple the system is going to be for users benefit.

CHAPTER TWO: LITERATURE REVIEW

2.0 INTRODUCTION:

This chapter is mainly to deal with the review of the related literature or books and released reports on the stand point of this study. And to show out the strength and weakness of the work done by the other scholars or researchers before study and what gaps are being left and how to fill them with better recommendation.

2.1 OVERVIEW

The literature review is written based on the related books, journals, corporate report and sites on internet from which the information gathered is of good use for the development of this project

The early researchers and scholars debate on the available tools for developing the web based database for online reservation system and high virtual quality interface features and have recommended the most suitable one.

2.2 THEORETICAL REVIEW:

Although today not all hotel reservations are made online, over 90% of all hotel/resort and airline reservations are processed electronically by three famous companies Sabre, World span and Apollo of the corporate agents carries out a study on online reservation system of which discovers there is a high needs for an online reservation that offers a user friendly interface to allow none technical experts also transact online

2.3 REVIEW OF RELATED LITERATURE:

The application of modern information technology dominated so far by the use of Internet websites and online reservation systems, gives competitive advantage to order

with same establishment. However, the potential competitive advantage can be transformed into real advantage if only the websites have properly design. As a result, the advocator conducted research on the facts related to the system that might be helpful to its developments.

Jeong et al. (2005) discuss the role of website quality in attracting online bookings and empirically test their proposed model with potential lodging customers. Authors indicate that information completeness and ease of use are important determinants of website quality.
Schegg et al. (2002) analyze Swiss hotel websites over different criteria and conclude that they provide static information and limited transactional functions. (Law and Leung (2002).

Examine airfare reservation systems over attributes like information quality, system use, system quality, services quality, and customer loyalty. Their results show that North American-based websites outperform Asian-based ones.
Landvogt (2004) evaluates several online booking engines over 23 different criteria, like overall user friendliness, payment method, instant confirmation, reliability, and invoicing function among others. These criteria present some of system's functions and design principles discussed further in current paper. Law and Wong (2003) find the three most important factors that contribute to a successful website, according to the on-line purchasers, are secure payment methods, different price ranges for products/services, and user-friendly.

Law and Hsu (2006) assess the dimensions of hotel and room for rent websites (information regarding the reservation, facilities, and contact details of the property, surrounding area and website management) and attributes...

Thomas A. Pollack (2000) an early pioneer in the use of commercial computer technology, developed a semi-automated customer reservation system called Reservisor by 1960. It required considerable manual intervention and had a reservation error rate of eight percent, which was the lowest in the industry at the time. Recognizing that semi-automatic systems would not be capable of handling the rapidly increasing demand for air travel, American Airlines had already begun working with IBM, in the late 1950s, to develop the first automated, online, real-time computerized reservation system (CRS). The joint project would use interactive, real-time computing technology developed for a U.S. government air defense project referred to as Semi-Automatic Ground Environment (SAGE).

According to Thomas A. Pollack the wealth of customer data collected by the online reservation system used to target marketing and incentive programs that appeal to specific consumer interests. Internet-based systems offer many of the capabilities of the traditional computerized reservation systems, but in a customer-friendly format that is easy to use and understand.

Kharagpur (2005) emphasis on the manipulation interfaces presents the interface to the user in the form of visual models (i.e. icons or objects). That strongly recommended direct manipulation interfaces which are sometimes called as iconic interface. In this type of interface, the user issues commands by performing actions on the visual representations of the objects e.g. pull an icon representing a file into an icon representing a trash box, for deleting the file. Important advantages of iconic interfaces include the fact that the icons can be recognized by the users very easily, and that icons are language-independent. However, direct manipulation interfaces can be considered slow for experienced users. Also, it is difficult to give complex commands using a direct manipulation interface. For example, if one has to drag an icon representing the file to a trash box icon for deleting a file, then in order to delete all the files in the directory one has to perform this operation individually for all files – which could be very easily done by issuing a command like delete feature.

The sabre is considered to be the most suitable reservation site for online reservation system. The Asp.net components, ActiveX data object that were used in developing this project is solid wed application architecture is critical web application design consistent technical standards across applications high level of code reusability, and evaluation of electronic commerce system and application. Their site actual operating on layers and following business rule

On presentation tier, where delivers the application to the end users on web/internet, where? It takes responsibility of presentation of data to receiving user, and controlling user's interface. Application layer contains and executes the rules that run the application and objects that implement the business rules, protect data from direct access by clients and data tier manage data require beside the widespread relational database dynamic database.

The communication module reservation request data contain client's details and sensitive information. A key requirement is to transfer though SSL the information had to be encrypted. The initial design relies on ActiveX components would not be able to meet the full requirements, the function was original design to function in visual basic 5.0 environment with error handling and notification accomplish though an event interface.

Therefore the planning system will more less function similarly to these but with rectifications on the gap left, by using universal latest technology software and facilities as such visual studios, database software and web site developing language that can efficiently run on the latest operating system, and provide customer with friendly interface.

CHAPTER THREE: METHODOLOGY

3.0 INTRODUCTION:

This chapter mainly deals with the methods and process which will used in carrying out the research. It shows what design had been employed in the study. It also describes the methods and tools employ which data and requirements of the system for purposes of the study.

3.1 PLANNING AND ANALYSIS OF THE SYSTEM:

The previous chapters is written based on the system development life cycle the planned is to be in position to resolve and the planning is in details of the system development and actual consideration that should be taken in when developing the system. The current problems of the system and analyze conduct proper consultations with the system stakeholder and system user because they are the direct beneficiaries of the new system that will be develop as such the user needs and requirement like GUI to be met

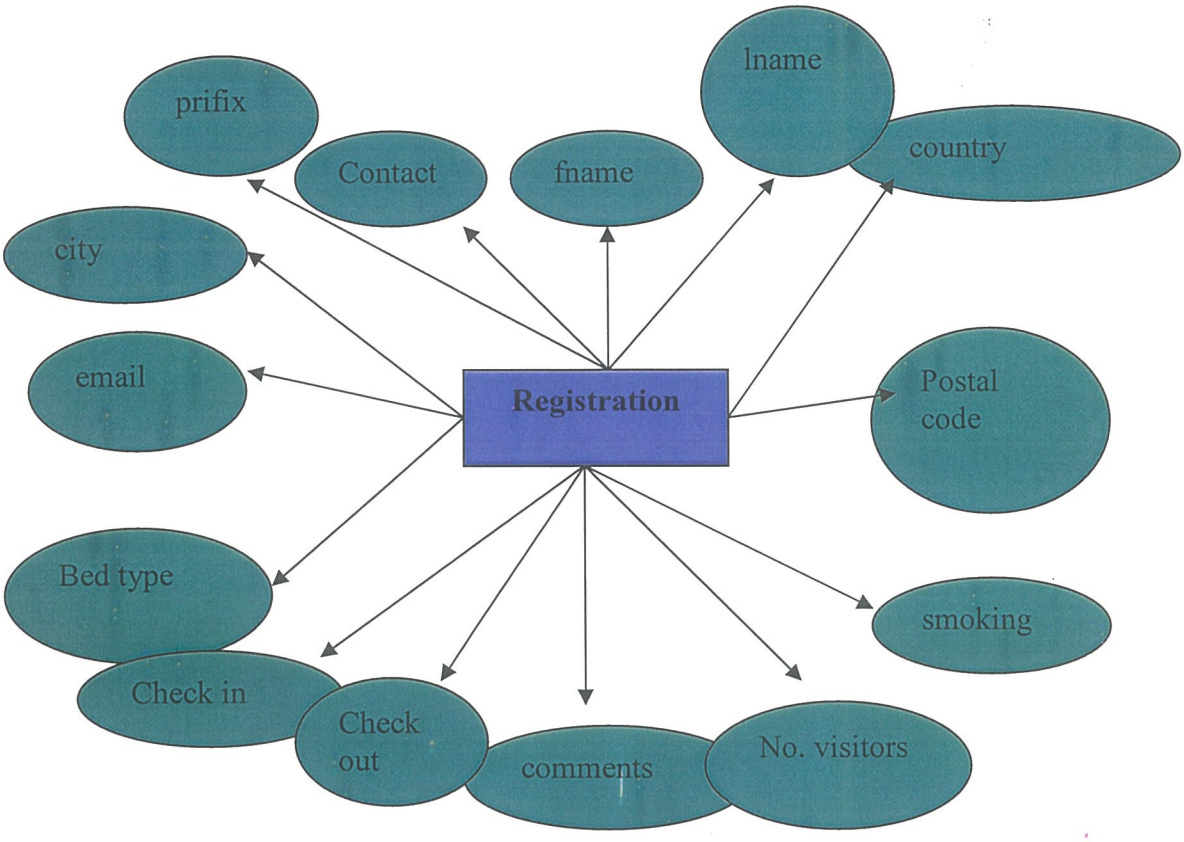
3.2 DEVELOPMENT METHODOLOGY AND TOOLS:

The tools that will be use in developing the new system include (Asp.Net, Mysql, Apeache and virtual studio for creating dynamic database and interfaces feature. Warmp Server for compiling templates and Windows operating system as system software and PHP a programming language) other editors will also be use like macromedia flash and Adobe Photoshop for pictures editing.

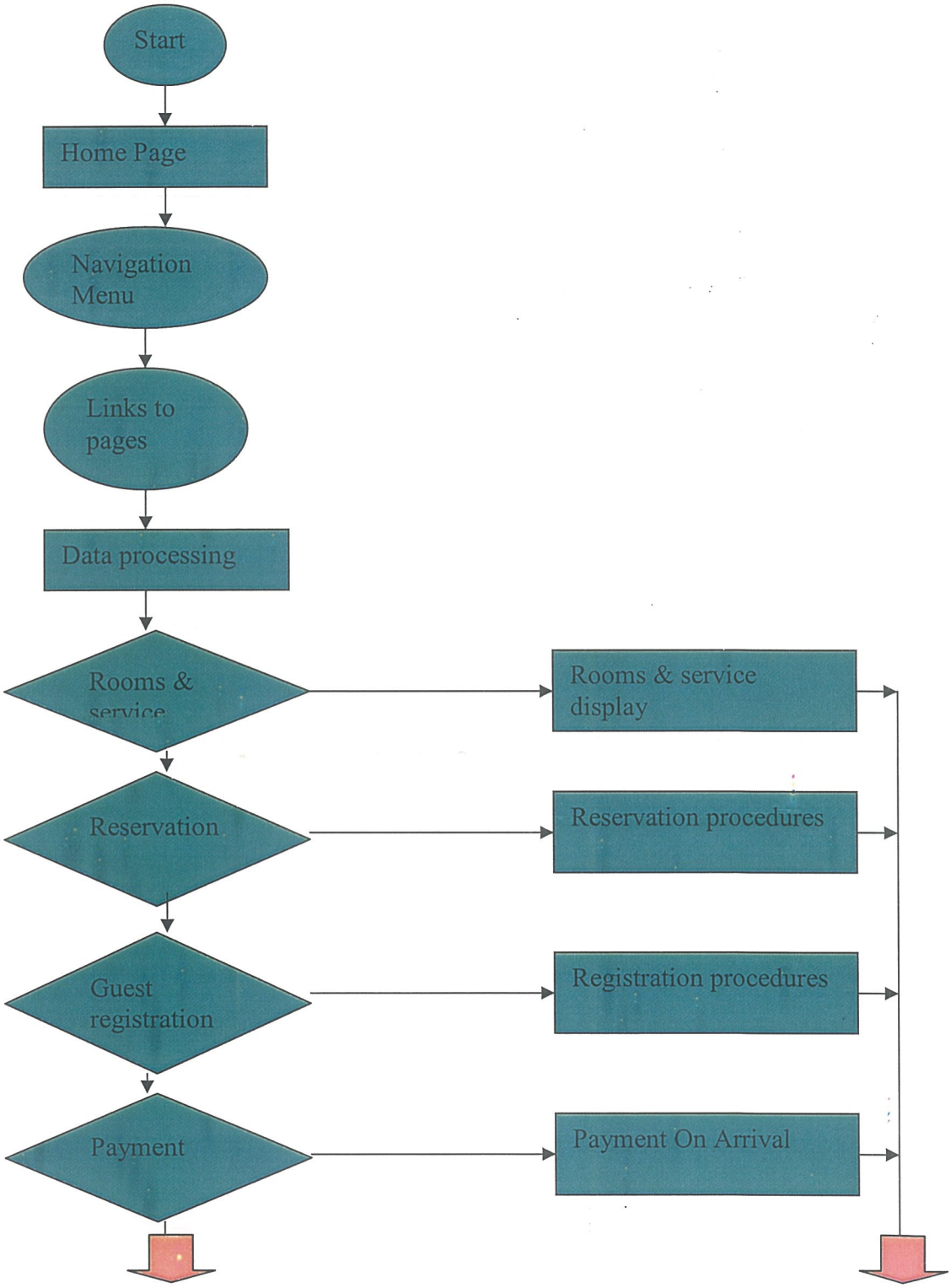
3.3 SYSTEM REQUIREMENTS:

- Hardware requirement: such as(Printer, full set system unit, network internet, Server side machine and fax)
- Software requirement: such as(Dream weaver, Windows Operating system, Visual Studio, Ms-Access, Warm-Server Coral-Draw and SQL-Server 2000)
- Technical requirement: like (Expertise and System Analyze)
- Other requirements: such as (Economic aspects and cost maintenance)

3.4 REGISTRATION:



3.5 FLOW CHART:



3.6 VALIDITY AND RELIABILITY:

This system has to operate 24/7. Any downtime results in immediate loss of income. The clients has to use it comfortably in the Application Server's ability to function in a 24/7 environment.

As many vendors will be on board the data mapping interface and validation rule module had to be easily customized maintain to account for unique requirements of a specific service provider and support expense as more vendors came onboard.

3.7 LIMITATION:

- Fear for loss of employment: once the system is fully automated there will be no need of employing more staffs, because the system will be running by itself and only require one person as systems administer to handle system requirements task.
- Cost of maintenance and management: because of the rapid grow of technology system needs to be upgrade with the moving technology for purpose of reliability and efficiency such that choice of vendors is not limit, with is costly and the cost of employing the system administrator is also expensive
- Limit to clients with no knowledge of computer use and internet: this system can only be use by computer literate therefore there is possibility of some people may not be able to use it and even those who are not online may be able to be able to access it.

Therefore the wealth of this chapter offers customer data collection by systems is to be use to target marketing and incentive programs that appeal to specific consumer interests. Internet-based systems offer many of the capabilities of the traditional computerized reservation systems, but in a customer-friendly format that is easy to use and understand.

CHAPTER FOUR: SYSTEM ANALYSIS, DESIGN AND IMPLEMENTATION

4.0 INTRODUCTION

The previous chapter deals with the planning, analysis and development methods of the system. Now in this phase or chapter dealings with physical design and development of the system which has been discuss logically or in imagination in the previous chapter, it shows the function of the system in reality not imagination and how users needs and requirements are satisfied.

REQUIREMENTS ANALYSIS

This is the process of identifying the data required by the user to meet the present and future information needs. Requirements are determined by interviewing producers and users of data and producing a formal requirements specification. The specification includes the data required for processing, natural data relationships, constraints with respect to performance etc.

Analysis Goal	**Specification**
i) Identification of Basic Structures: The basic structures of a database like tables, rows, columns are identified. ii) Identifying rows: Primary keys identify each row of information in a table uniquely. They are identified here. iii) Linking related tables: Foreign keys define the relationships between two	i) The description of Columns and rows in the table which store related data in the database it have the following: ii) Prefix, first name, last name phone number, email address, City, country, postal code, and check in, check out, number of guest, bed type, smoking and comments. This columns stores information that they are mean for in the database table. iii) The tables are links together base on their relationship, they are link by the primary key and the other hand is foreign key

country, postal code, and check in, check out, number of guest, bed type, smoking and comments. This columns stores information that they are mean for in the database table.

However the table is connected to the interface page using record set connection string for dynamic database SQL and QUERIES also use for the management and retrieval of the data and manipulation by the system administrator when? Necessary

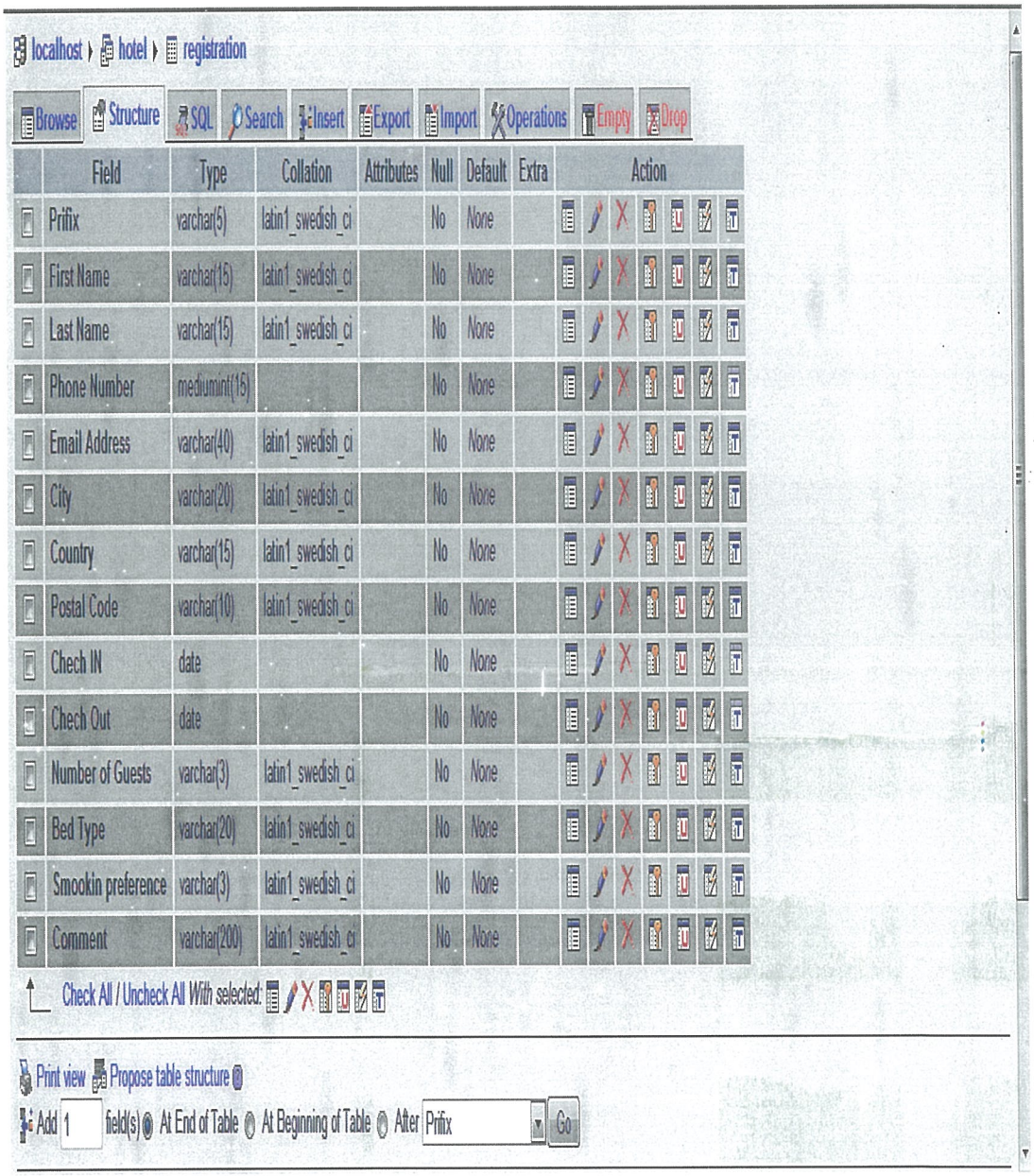


Fig.4.4 **Database design** ***(table) Reservation***

4.5 CUSTOMERZISE INTERFACE

4.5.1 HOME PAGE

The home page has an attractive banner displaying the resort site and above the banner there is a Flash menu bar which links to various pages the user can navigate to. On the body of this snap shot there is information written about Sahara resort and sister's resort, in the bottom of the page there is admin login which is inactive for the moment but might be activate during the web hosting to only allow admin make changes and necessary updates.

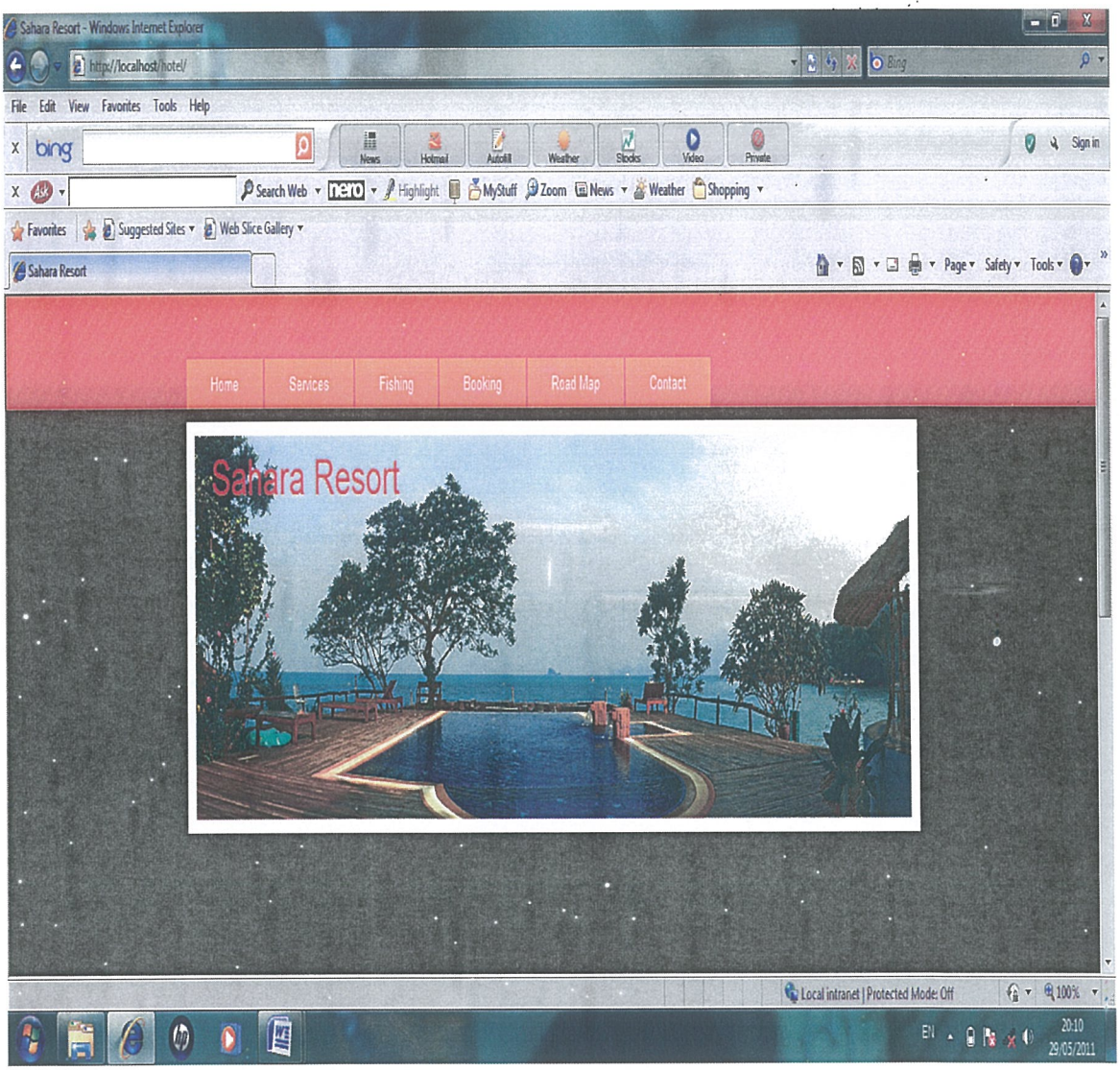


Fig.4.5.1 **Home Page layout (*home.html)***

4.5.2 SERVICES PAGE LAYOUT

In the services page layout there is a menu bar links with can help the customer navigate to another page. In the left hand side some text is there specifying the services offers by Sahara Resort and what they are having in their suites and inside the compound.

In the right side there some pictures display showing the suites, restaurant and business meeting hall of Sahara Resort as well as down to the bottom of the page showing the relaxation area and swimming pool inside the Sahara's compound.

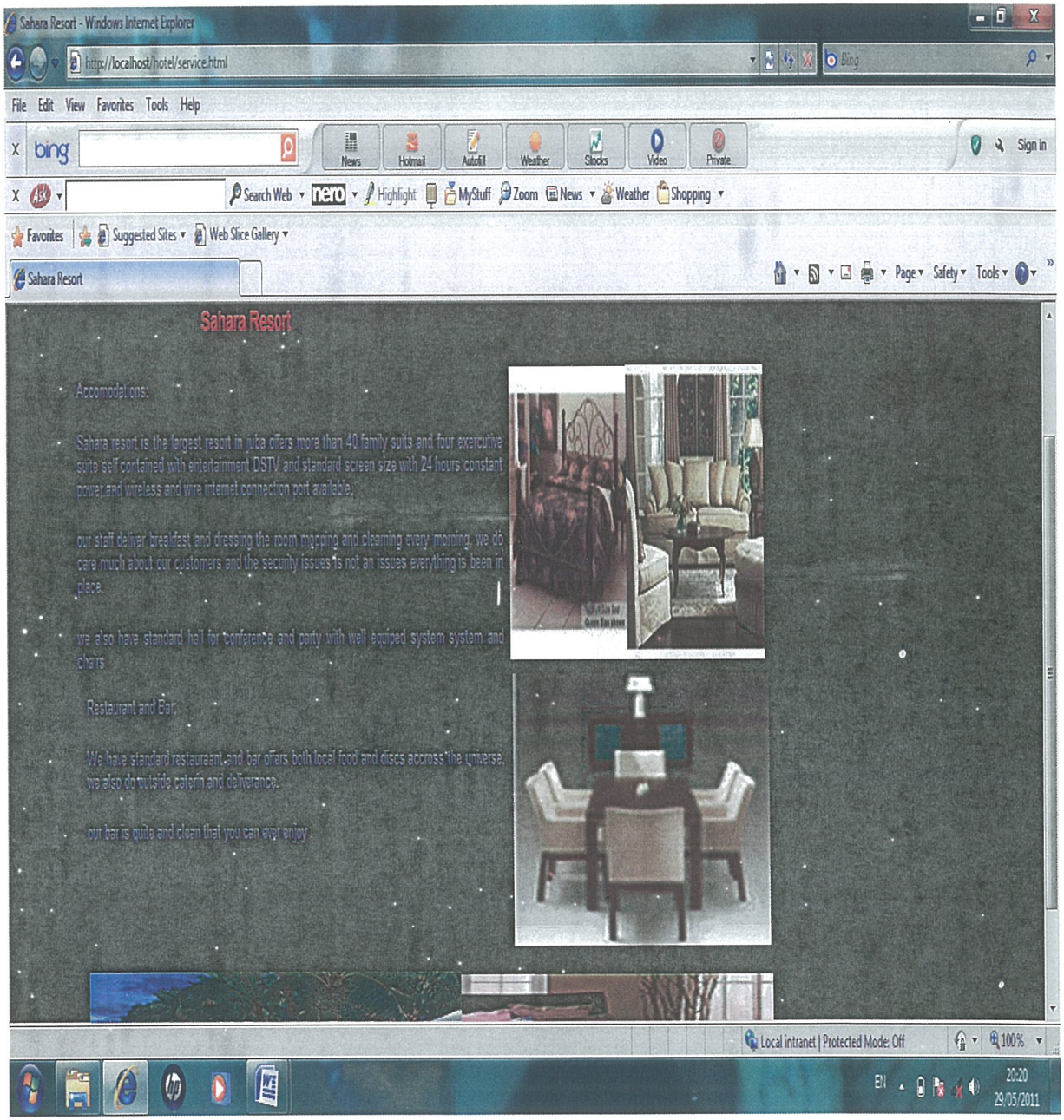


Fig4.5.2 Services Page Layout (*services.html*)

4.5.3 DATA ENTRY FORM

This screen shot showing the data input method where accept customer enter data from the keyboard, it has text area which specified data type and value if enter incorrect data type it generate error report if data entered correctly then submit it takes to the database store centre.

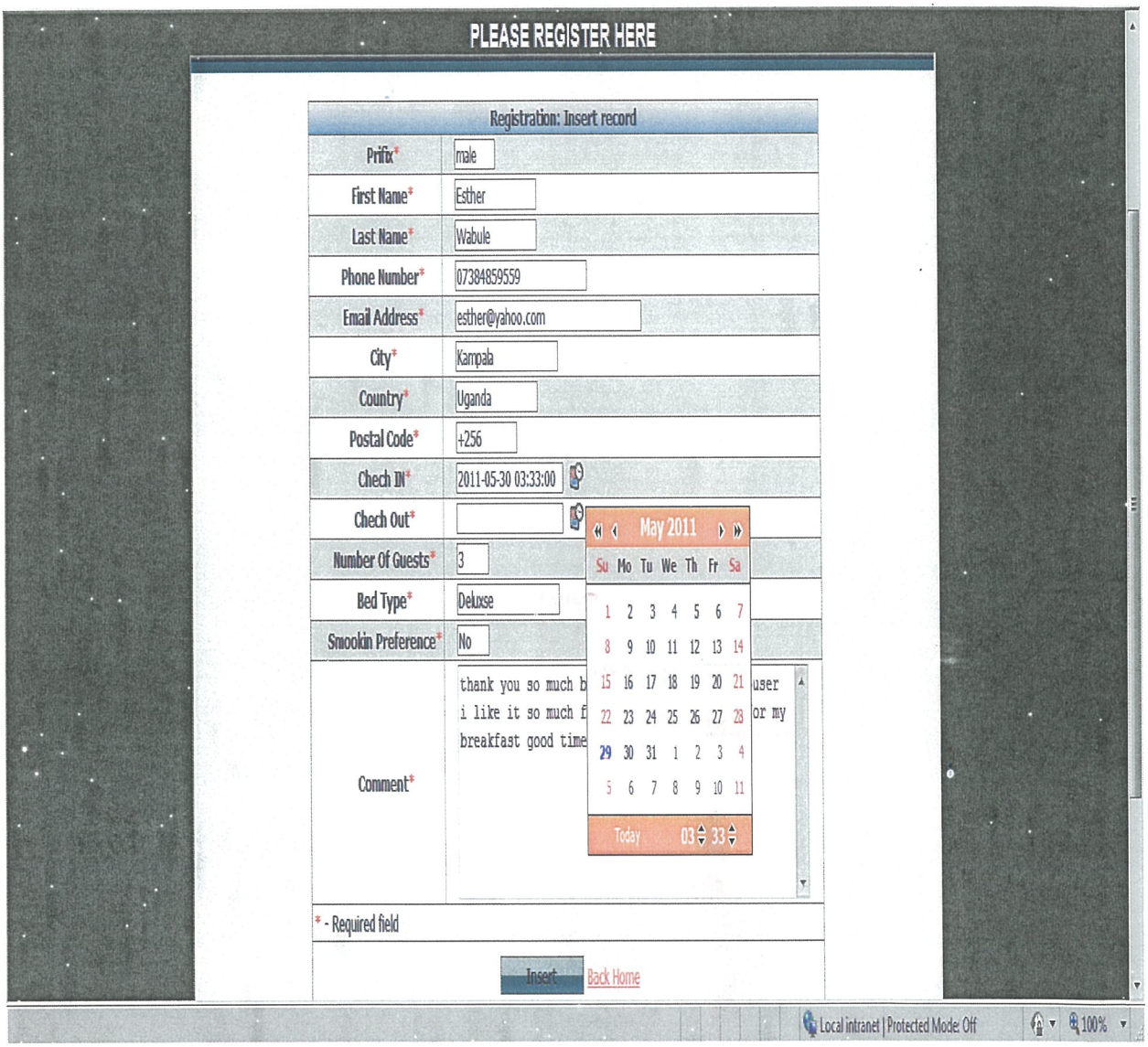


Fig.4.5.3 Showing the data input form in to the database

4.5.4 DATABASE

After when the customer input his/her reservation details in the form and send, it comes to this screen shot showing the database store under the table registration in this table there are administration actions module like delete, edit, view data and copy data also there is a search engine and category.

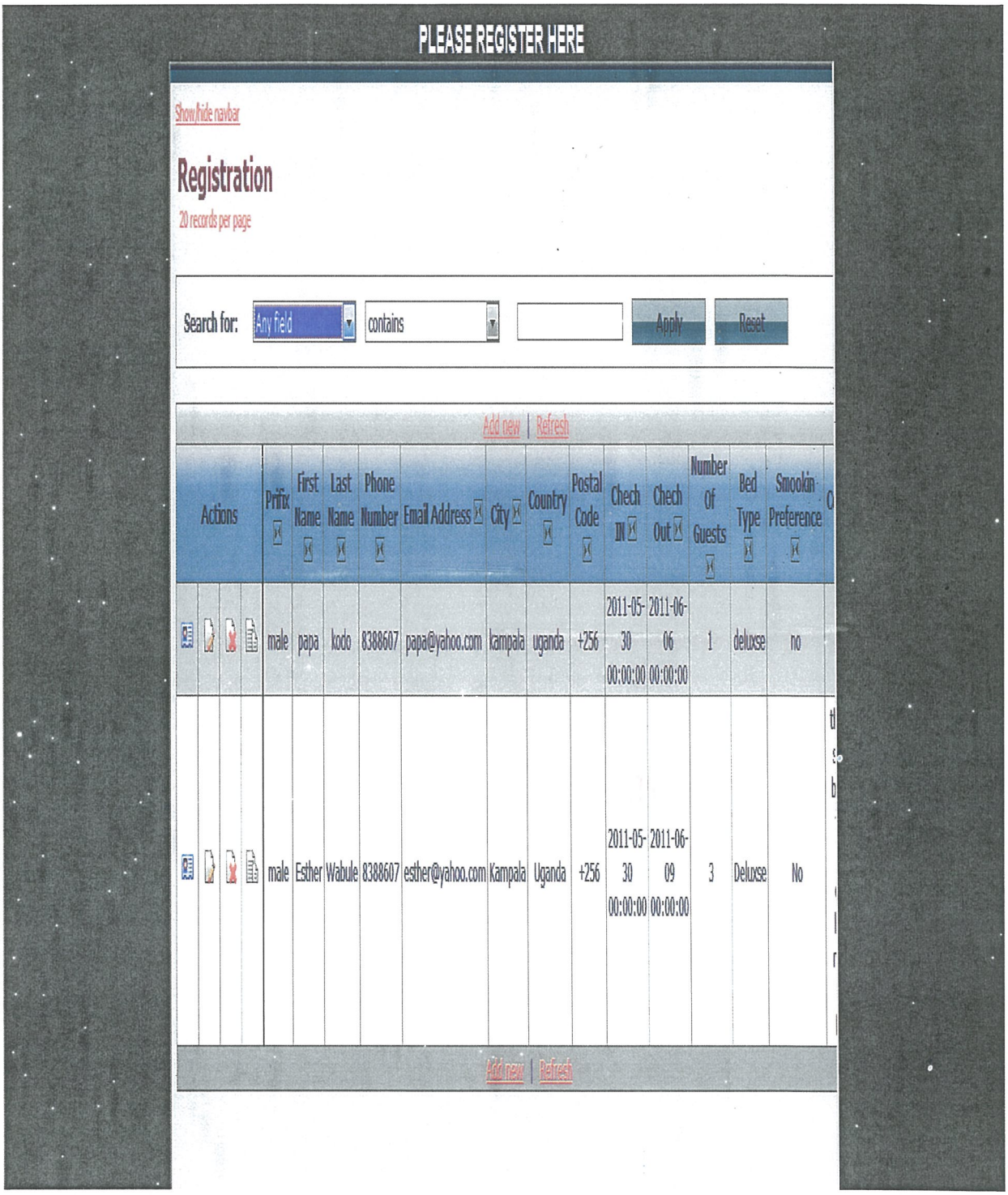
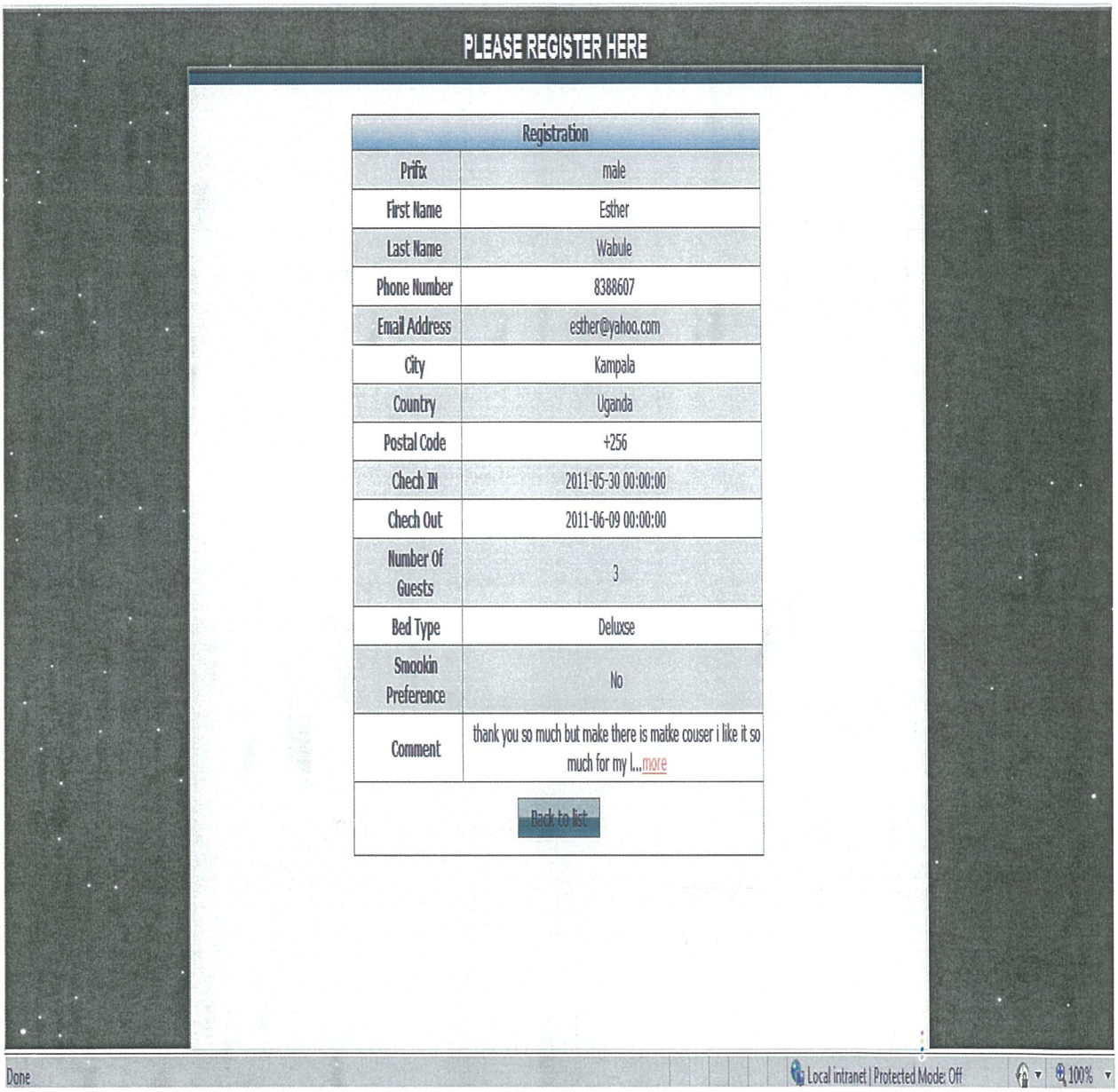


Fig.4.5.4 Showing the data Stores in the database

4.5.5 Fig Showing data view module



4.5.6 DATA SEARCH ENGINE

Figure shows the screen shot of the search page view admin can search for particular information based on the category of the search even description of the room choice The search engine then displays the matching results in the highlighted in yellow colour.

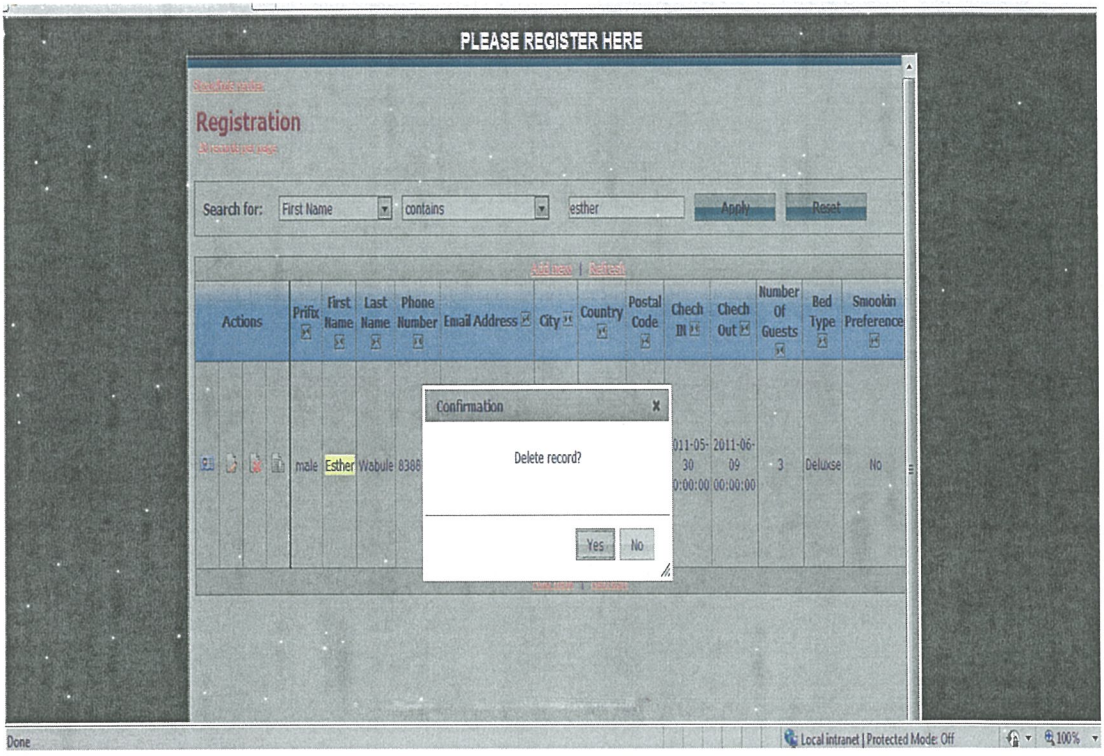
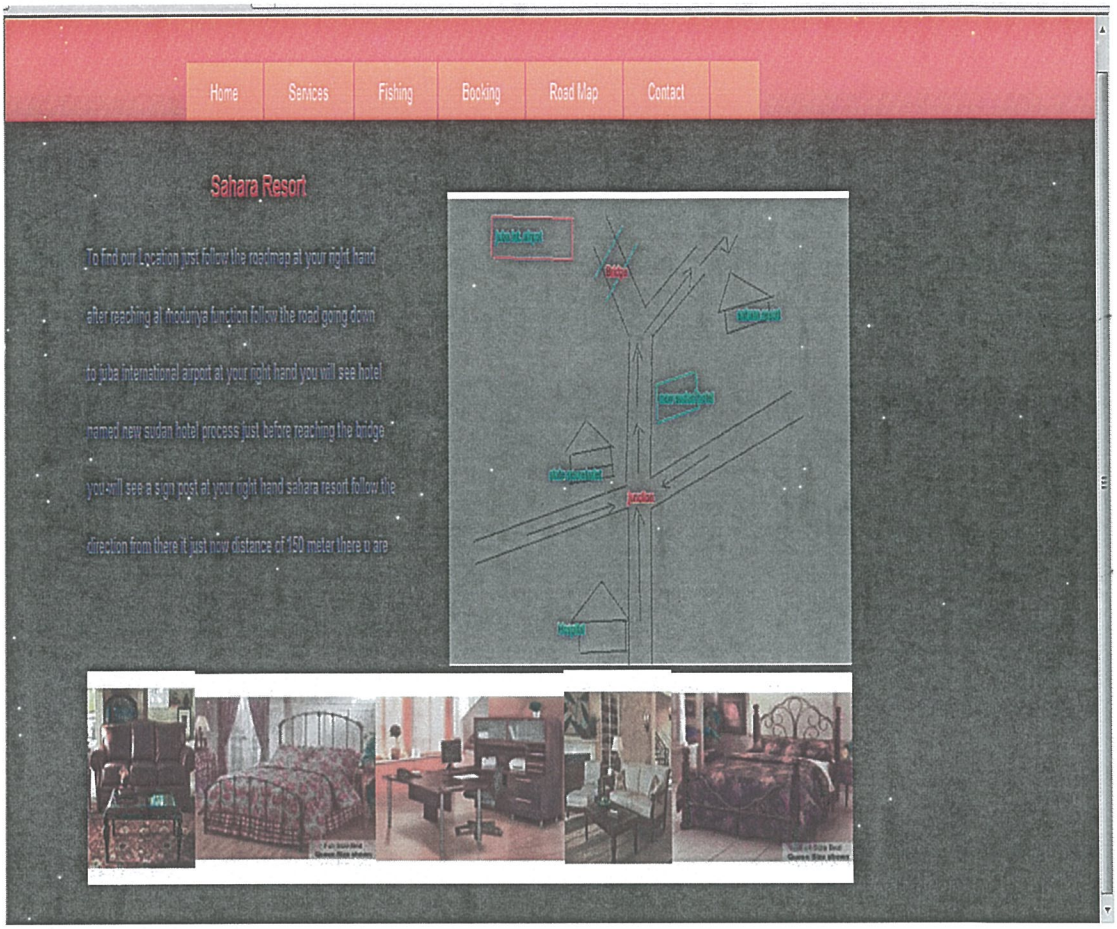


Fig.4.5.6 Showing the Search Module

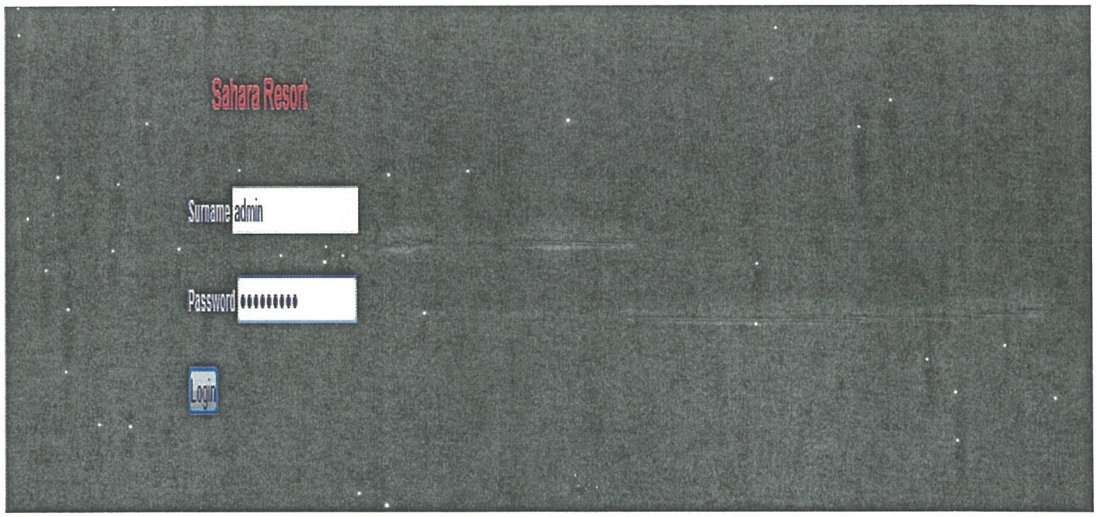
4.5.7 Fig showing road mapping Page



4.5.8 Fig Showing Contacts Page



4.3.9 Fig Showin admin login



5.1 SYSTEM IMPLEMENTATION

The system to be implemented is Sahara resort online Reservation system utilizing dynamic database and interfaces. It is developed using programming language and MYSQL for the dynamic database design, this system aim at helping customers of Sahara resort reserve for room online.

Therefore before implementing this system first the following need to be install:

- Internet browser
- Warm server
- Dreamweaver and
- Full PHP generator

If not must have already presents in the user computer the system developed id then implemented.

5.2 TASK REQUIRED FOR THE IMPLEMENTATION

- Providing overall planning and coordination for the implementation.
- Ensure that the user manual is available for the implementation effort.
- Ensuring that all prerequisites are met
- The system implementation is tested in the clients personal computer

5.3 DATABASE IMPLEMENTATION

- The database successfully design in MYSQL and APACHE
- The database table were design and implemented appropriately with the appropriate fields and their data type

5.4 TESTING AND EVALUATION

The program deals with database and some references, run time and has different pages and modules of connection user interfaces and form for data input plus the admin page for update therefore it essential to test if they are functioning properly
Installed a complete PHP compiler and MYSQL and crystal report on the target test machine and the system, all were successfully running without problems.

5.5 INTEGRATION TEST

This test was mainly carried out to see links between pages, forms, database and reports in the system therefore for matter there are different pages and form linked to the database. So it was necessary to check the operability of the links found on the multiple document interfaces.
The focus of this test mainly on whether the forms/form linked to the database table work correctly there actual of two type test links from MDI form to forms when customer/user clicks on the menu flash bar, it call respective form or page

Therefore in this chapter the developed system is implemented, test correctly and the corrections for errors has been made the testing and implementation of the system is made in client machine and has work properly.

CHAPTER FIVE: DISCUSSION, RECOMMENDATION AND CONCLUSION

5.0 INTRODUCTION

This chapter summarized the phases discussed in chapter three and it is developed in a systematic approach system design and development implementation and testing of the system in client machine, it also highlighted some contiguous issue encounter during the process.

5.1 DISCUSSION

After long discussion with different stakeholders of the system and users it essential that the requirements and specification has to be implemented for they are the targeted population of the system, the reservation site is developed as simple as possible with user friendly interfaces to allow non technical experts use it.

The commands and interfaces are made in simple language and an easily indentified graph which is similarly related to the users but the flow of data in the system is encapsulated or conceal of that user due to security concerns and privacy.

5.2 LIMITATIONS OF THE STUDY

In the study of this study it obvious that time is a major limit in carrying studies I encounter a lot of limitations and scope the recommendation that in future study those who wish to carried out research should be caution of time frame work.

Not only time but limitations like financial constraints once run out of time financial constraint will automatic comes because the budget allocated is for that specific time frame, among others like lack of equipments and restriction in accessing some facilities which could be useful in the carrying.

5.3 FURTHER WORKS

Due to technical limits this study has an scopes of which could wish to work on but because of time limit and lack of equipments has remained an scope thought it's still scope in this study but the developed system has already given a rough picture of an automated reservation online system.

For those who wish to continue on this study should look deep in the payment procedures to clearly specifies the flow of the transaction between the company banker's the merchants bank and third party.

For secure online transactions the secure has to be put in notices the best could the data algorithm encryption from the source transaction and decryption in the destination as such not to be hijacked or pirated in the middle by unauthorized person during transaction and data verifications.

In this phase the future researcher or scholar should keep updating latest security method course technology keeps growing rapidly.

5.4 RECOMMENDATION

After passing through the processes the author recommended training of the user especial in the area of database management and web site engineering for the future upgrade of the system and data conversion to enhance with future technology as technology keep growing rapidly.

5.5 CONCLUSION

Though the system still contains lot of scope of improvement in it, But its overall look and feel gives rough picture of on existing automation system.
I have taught of taking MS-Access at backhand but it has a limitation of 1 GB size .It over data
Size approaches this 1 GB some other database the SQL server, oracle, can be used with OBBC to break this barrier.

A hotel has a long tradition of profiting from innovative systems and tools. As technologies emerge, successful businesses are quick to identify developing opportunities and expand their capabilities..

Online resort differs from traditional hotel in that its interactions are not restricted to normal working hours or geopolitical borders. There is potential to conduct business with other merchants and consumers around the world in different time zones, 7 days a week,

As in any project there is scope for more enhancements online Reservation has been designed to make such enhancements easy to implement. This project has not only helped me to hone my technical skills but also helped in developing team skills.

Therefore in this chapter the research covered has highlighted some common issue that most scholars and researcher encounter and has provided recommendations and future work area and their approaches.

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x. http://www.saunalahti.fi/janij/.

xi. http://www.genisys.com

APPENDIX

A. Pages Links

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
 "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<!-- Template Design by ZhengDesign.com | http://www.ZhengDesign.com |
 Released for free under a Creative Commons Attribution-Share Alike
 3.0 Philippines -->
<head>
<meta http-equiv="content-type" content="text/html; charset=utf-8" />
<title>Sahara Resort</title>
<meta name="keywords" content="" />
<meta name="description" content="" />
<link href="layout.css" rel="stylesheet" type="text/css"
 media="screen" />
<script type="text/javascript">
<!--
function breakout_of_frame()
{
if (top.location != location) {
top.location.href = document.location.href ;
}
}
-->
</script>
<style type="text/css">
<!--
.style1 {
 font-size: 18px;
 color: #FF0000;
}
.style2 {
 color: #FFFFFF;
 font-size: 18px;
 font-weight: bold;
}
-->
</style>
</head>
<body onload="breakout_of_frame()"><body onload="breakout_of_frame()">
<div id="navigation">
 <ul>
         <li><a href="index.html" class="active">Home</a></li>
         <li><a href="service.html">Services</a></li>
         <li><a href="fishing.html">Fishing</a></li>
         <li><a href="booking.html">Booking</a></li>
         <li></li>
         <li><a href="roadmap.html">Road Map </a></li>
         <li><a href="contactus.html">Contact</a><a href="#"></a></li>
 </ul>
</div>
<div id="content">
 <div class="style1" id="logo">
         Sahara Resort  </div>
 <div id="splash">
   <div align="center" class="style2">PLEASE REGISTER HERE      </div>
```

```
      <iframe name="Framename" align="middle"
 src="registration.php?operation=insert" width="900px" height="700"
 frameborder="1" scrolling="yes"> </iframe>
 </div>
  <div id="page"></div>
</div>
<div id="footer">
  <p> </p>
</div>
</body>
</html>
```

A. Form Link to the database

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<!-- Template Design by ZhengDesign.com | http://www.ZhengDesign.com |
Released for free under a Creative Commons Attribution-Share Alike 3.0
Philippines -->
<head>
<meta http-equiv="content-type" content="text/html; charset=utf-8" />
<title>Sahara Resort</title>
<meta name="keywords" content="" />
<meta name="description" content="" />
<link href="layout.css" rel="stylesheet" type="text/css" media="screen" />
<script type="text/javascript">
<!--
function breakout_of_frame()
{
if (top.location != location) {
top.location.href = document.location.href ;
}
}
-->
</script>
<style type="text/css">
<!--
.style1 {
  font-size: 18px;
  color: #FF0000;
}
.style2 {
  color: #FFFFFF;
  font-size: 18px;
  font-weight: bold;
}
-->
</style>
</head>
<body onload="breakout_of_frame()"><body
onload="breakout_of_frame()">
<div id="navigation">
```

```
  <ul>
            <li><a href="index.html" class="active">Home</a></li>
            <li><a href="service.html">Services</a></li>
            <li><a href="fishing.html">Fishing</a></li>
            <li><a href="booking.html">Booking</a></li>
            <li></li>
            <li><a href="roadmap.html">Road Map </a></li>
            <li><a href="contactus.html">Contact</a><a href="#"></a></li>
  </ul>
</div>
<div id="content">
  <div class="style1" id="logo">
            Sahara Resort       </div>
  <div id="splash">
    <div align="center" class="style2">PLEASE REGISTER HERE   </div>
     <iframe name="Framename" align="middle"
src="registration.php?operation=insert" width="900px" height="700"
frameborder="1" scrolling="yes"> </iframe>
  </div>
 <div id="page"></div>
</div>
<div id="footer">
 <p> </p>
</div>
</body>
</html>
```

B. Modules

```
<?php

// define('SHOW_VARIABLES', 1);
// define('DEBUG_LEVEL', 1);

// error_reporting(E_ALL ^ E_NOTICE);
// ini_set('display_errors', 'On');

set_include_path('.' . PATH_SEPARATOR . get_include_path());


require_once 'components/utils/system_utils.php';

// SystemUtils::DisableMagicQuotesRuntime();

SystemUtils::SetTimeZoneIfNeed('America/Los_Angeles');

function GetGlobalConnectionOptions()
{
   return array(
 'server' => 'localhost',
```

```
 'port' => '3306',
 'username' => 'root',
 'database' => 'hotel'
);
}

function GetPageInfos()
{
   $result = array();
   $result[] = array('caption' => 'Registration', 'short_caption' => 'Registration',
'filename' => 'registration.php', 'name' => 'registration');
   return $result;
}

function GetPagesHeader()
{
   return
   '';
}

function GetPagesFooter()
{
   return
      '';
   }

function ApplyCommonPageSettings($page, $grid)
{
   $page->SetShowUserAuthBar(false);
   $grid->BeforeUpdateRecord-
>AddListener('Global_BeforeUpdateHandler');
   $grid->BeforeDeleteRecord->AddListener('Global_BeforeDeleteHandler');
   $grid->BeforeInsertRecord->AddListener('Global_BeforeInsertHandler');
}

/*
  Default code page: 1252
*/
function GetAnsiEncoding() { return 'windows-1252'; }

function Global_BeforeUpdateHandler($rowData, &$cancel, &$message)
{

}

function Global_BeforeDeleteHandler($rowData, &$cancel, &$message)
{

}
```

```
function Global_BeforeInsertHandler($rowData, &$cancel, &$message)
{

}

?>
```