

A Project Report On

[Hotel Management]

The Report Submitted To

SAURASHTRA UNIVERSITY



Submitted In Partial Fulfilment of The Requirement For The Award
of The Degree

Academic Year 2023 - 2025

BACHELOR OF COMPUTER APPLICATION

[Semester – 5th]

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From: -

**23073 - N. P. VEKARIA EDU. & CH. TRUST SANCH. GRACE
COLL. OF COMM., RAJKOT**

DECLARATION

I hereby declare that this project work entitled **HOTEL MANAGEMENT** is record done by me.

I also declare that the matter embodied in this project is genuine work done by me and has not been submitted whether to this University or to any other University /Institute for the Fulfilment of the requirement of any course of study.

Place:-

Date:-

ACKNOWLEDGEMENT

Our website, which you are using, is the result of many people's dedication. The cumulative efforts of many minds working to get his day and night gave us the contentment of developing the software. Special thanks to Grace College for great support.

We express our gratitude to for guidance and who kept the things on track and to all other faculty members who helped us directly or indirectly. Finally yet importantly, our acknowledgement goes to all the well-wishers of our project his excellent support in all aspects.

PREFACE

There is a wide difference between theoretical and practical knowledge and to understand that difference for the use of knowledge. Project Report is new and interesting experience for us. We say it is difficult from particular we came to know about the theoretical ideas of the matter and its dealing. Project Report helps to build in our life.

By preparing this report, we have understood the need of practical training in the education field. It is easier to work with computerized system than the manual system. It saves time, effort and space and increases the efficiency by creating interest.

Our project is with respect to "Royal Furniture". The Project Report contains the information regarding information about Online Shopping.

The concerned people who were connected with our project were very keen in their work and provided us with all the useful information. The response from them was very positive and they were very informal to us.

This project is part of our fifth Semester of BCA Course Curriculum. We hereby declare that it is our own work with guidance of the faculty members of our college.

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1.1 Introduction

Hotel Management System is a hotel reservation site script where site users will be able to search rooms availability with an online booking reservations system. Site users can also browse hotels, view room inventory, check availability, and book reservations in real-time.

Site users enter check in date and check out date then search for availability and rates. After choosing the right room in the wanted hotel – all booking and reservation process is done on the site and an SMS is sent to confirm the booking.

Administrator Panel Account

Manager

- Administrator – Administrator can manage administrator accounts and conform the rooms.
- Room Types – Administrator can define the type of rooms in the hotels, room's prices and upload an image for each room.
- Bookings – All booking and reservations maid on the site are displayed with all booking details: arrival date, departure date, hotel name, room type, number of passengers, price.

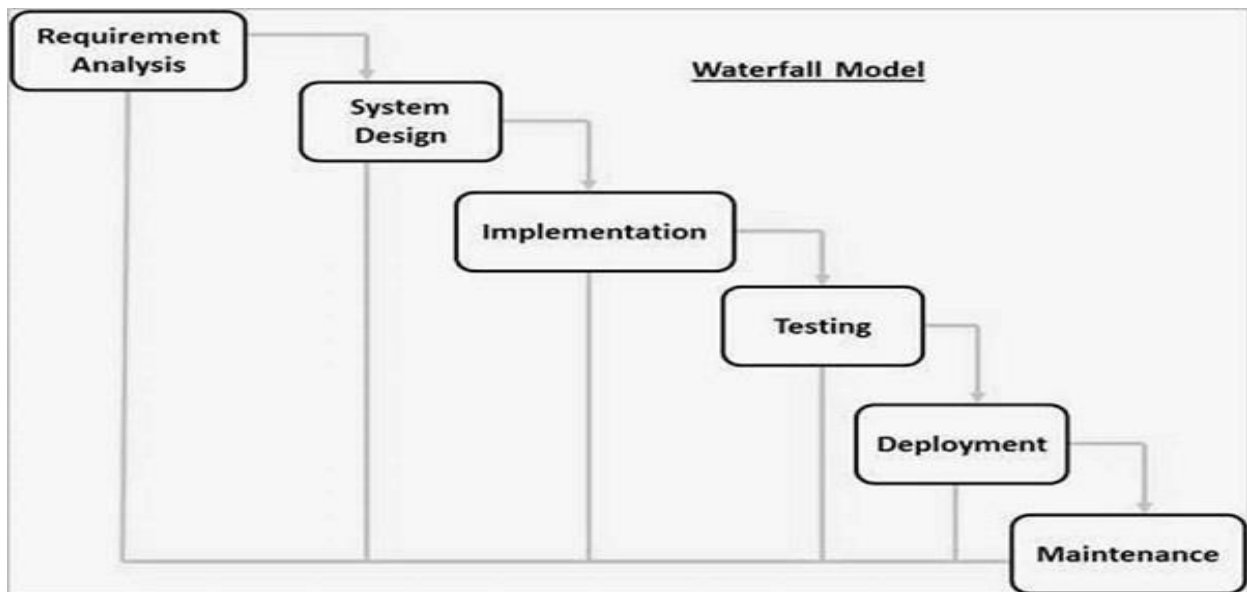
1.2 Objective

The Main Objective of hotel organizations could be improved by integrating service-oriented operations service-oriented operations with project management principles. Such integration would instill innovation, proactive attitudes and regulated risk-taking needed to pursue ongoing improvement and proactive response to change. By managing each change as a project, embedded in smoothly running operations, hotels would extend their life span by continuously reinventing themselves. Due to which the customers can easily book the hotels rooms.

1.3 Needs of Hotel Management System

This system will help administration to work easily. Because of its easy access and less time consuming administration can get the information of the Users, Rooms, Payments, etc. They do not have to search in the paper file for the log time. Members an easily handle the system.

1.4 Methodology Development Model



The sequential phases in Waterfall model are –

Requirement Gathering and analysis – All possible requirements of the system to be developed are captured in this phase and documented in a requirement specification document.

- **System Design** – The requirement specifications from first phase are studied in this phase and the system design is prepared. This system design helps in specifying hardware and system requirements and helps in defining the overall system architecture.
- **Implementation** – With inputs from the system design, the system is first developed in small programs called units, which are integrated in the next phase. Each unit is developed and tested for its functionality, which is referred to as Unit Testing.
- **Integration and Testing** – All the units developed in the implementation phase are integrated into a system after testing of each unit. Post integration the entire system is tested for any faults and failures.
- **Deployment of system** – Once the functional and non-functional testing is done; the product is deployed in the customer environment or released into the market.
- **Maintenance** – There are some issues which come up in the client environment. To fix those issues, patches are released. Also to enhance the product some better versions are released. Maintenance is done to deliver these changes in the customer environment.

1.5 Tools and Technique

- a. Php
- b. Xampp
- c. Mysql yog
- d. HTML
- e. Bootstrap
- f. Sublime text
- g. Git hub
- h. Java Script
- i. Css

Php

Hypertext Preprocessor (or simply **PHP**) is a server-side scripting language designed for Web development, but also used as a general-purpose programming language. It was originally created by Rasmus Lerdorf in 1994,¹ the PHP reference implementation is now produced *by* The PHP Group. PHP originally stood for *Personal Home Page*,¹ but it now stands for the recursive acronym *PHP: Hypertext Preprocessor*.

PHP code may be embedded into HTML code, or it can be used in combination with various web template systems, web content management systems, and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a Common Gateway Interface (CGI) executable. The web server combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a command-line interface (CLI) and can be used to implement standalone graphical applications.

Xampp

XAMPP is a free and open source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages. XAMPP stands for Cross-Platform (X), Apache (A),

MariaDB (M), PHP (P) and Perl (P). It is a simple, lightweight Apache distribution that makes it extremely easy for developers to create a local web server for testing and deployment purposes. Everything needed to set up a web server – server application (Apache), database (MariaDB), and scripting language (PHP) – is included in an extractable file. XAMPP is also cross-platform, which means it works equally well on Linux, Mac and Windows. Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server extremely easy as well.

Mysql yog

MySQL Workbench is a unified visual tool for database architects, developers, and DBAs. MySQL Workbench provides data modeling, SQL development, and comprehensive administration tools for server configuration, user administration, backup, and much more. MySQL Workbench is available on Windows, Linux and Mac OS X.

HTML

Hypertext Markup Language (HTML) is the standard markup language for creating web pages and web applications. With Cascading Style Sheets (CSS) and JavaScript, it forms a triad of cornerstone technologies for the World Wide Web.^[4]

Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items.

Bootstrap

Bootstrap is a free and open-source front-end framework for designing websites and web applications. It contains HTML- and CSS-based design templates for typography, forms, buttons, navigation and other interface components, as well as optional JavaScript extensions. Unlike many web frameworks, it concerns itself with front-end development only.

Java Script

JavaScript often abbreviated as JS, is a high-level, interpreted programming language. It is a language which is also characterized as dynamic, weakly typed, prototype-based and multi-paradigm.

Alongside HTML and CSS, JavaScript is one of the three core technologies of the World Wide Web. JavaScript enables interactive web pages and thus is an essential part of web applications. The vast majority of websites use it, and all major web browsers have a dedicated JavaScript engine to execute it.

Sublime Text

Sublime Text is a proprietary cross-platform source code editor with a Python application programming interface (API). It natively supports many programming languages and markup languages, and functions can be added by users with plugins, typically community-built and maintained under free-software licenses.

Github

GitHub is a web-based hosting service for version control using Git. It is mostly used for computer code. It offers all of the distributed version control and source code management (SCM) functionality of Git as well as adding its own features. It provides access control and several collaboration features such as bug tracking, feature requests, task management, and wikis for every project.

GitHub offers plans for both private repositories and free accounts which are commonly used to host opensource software projects.

Css

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language like HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple web pages to share formatting by specifying the relevant CSS in a separate css file, and reduce complexity and repetition in the structural content.

1.6 Specification Requirement

1.6.1 External Interfaces

- This interface will be actual interface through which the user will communication with the application and perform the desired tasks.

Admin login

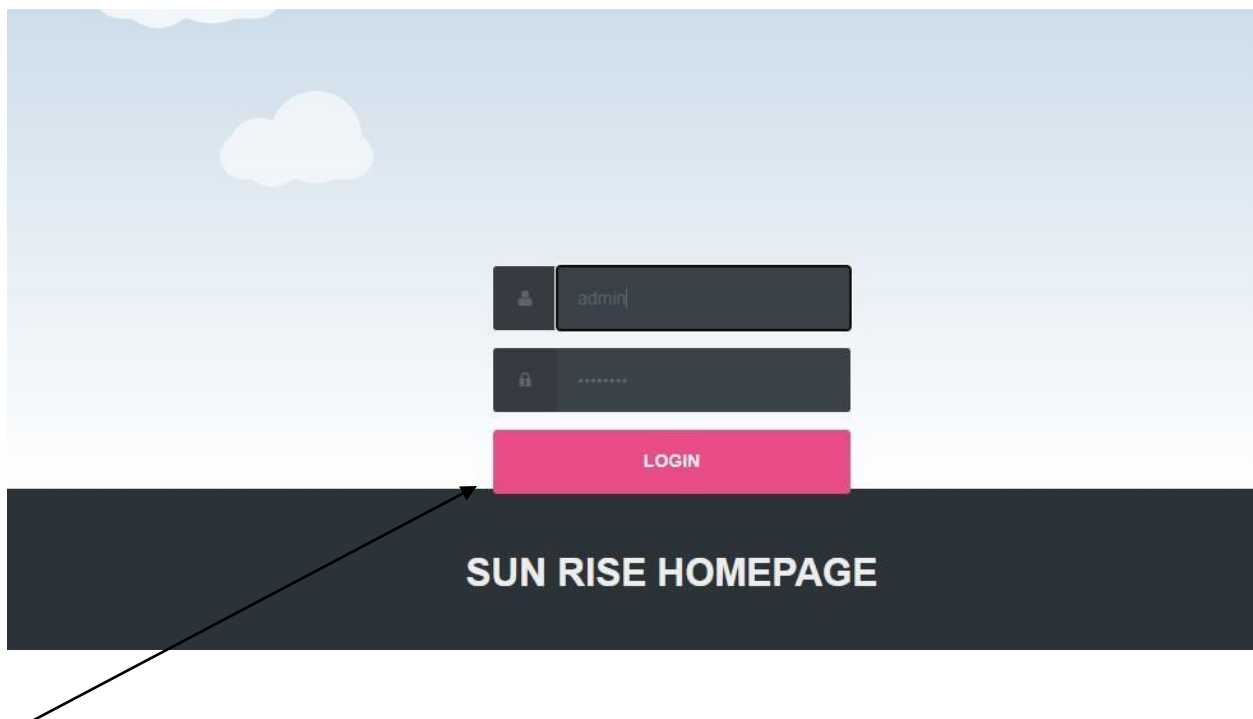
I.D:

Role: Admin wishes to login to the system

Precondition: Username and Password

Success end Condition: Main option of screen display

Failed end Condition: User has entered incorrect Username and Password or both



Conform

ID:

Precondition: Admin has successfully navigated to the search result

Success end Condition: Admin has successfully made the changes

Type Of the Room	Guest House
No Of the Room	1
Meal Plan	Breakfast
Bedding	Double
Check-in Date	2020-06-12
Check-out Date	2020-06-26
No of days	14
Status Level	Not Conform

Select the Conformation

1.6.2 Software Product Features

Hotel Management System

- Sequencing information
 - Login information should be filled before the user allowed. ○

Error Handling

- If user doesn't filled up validate information then the system display error message for user and request to enter the validate information.

Performance required

- Security

-System should be Protected from unauthorized access Where the validate Username and Password are required so no other can access. Logical Database

contact

Column	Type	Null	Default	Links to	Comments	MIME
id (Primary)	int(10)	No				
fullname	varchar(100)	Yes	NULL			
phoneno	int(10)	Yes	NULL			
email	text	Yes	NULL			
cdate	date	Yes	NULL			
approval	varchar(12)	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	id	0	A	No	

login

Column	Type	Null	Default	Links to	Comments	MIME
id (Primary)	int(10)	No				
usname	varchar(30)	Yes	NULL			
pass	varchar(30)	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	id	2	A	No	

Data Design

Data Model: A database model is a type of data model that determines the logical structure of a database and fundamentally determines in which manner data can be stored, organized and manipulated.

Level

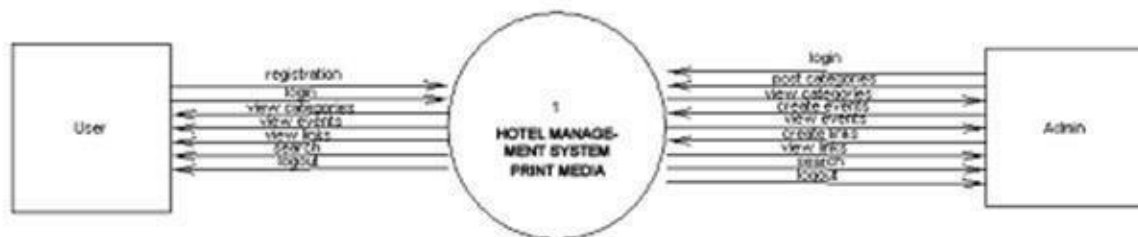


Figure: Data flow

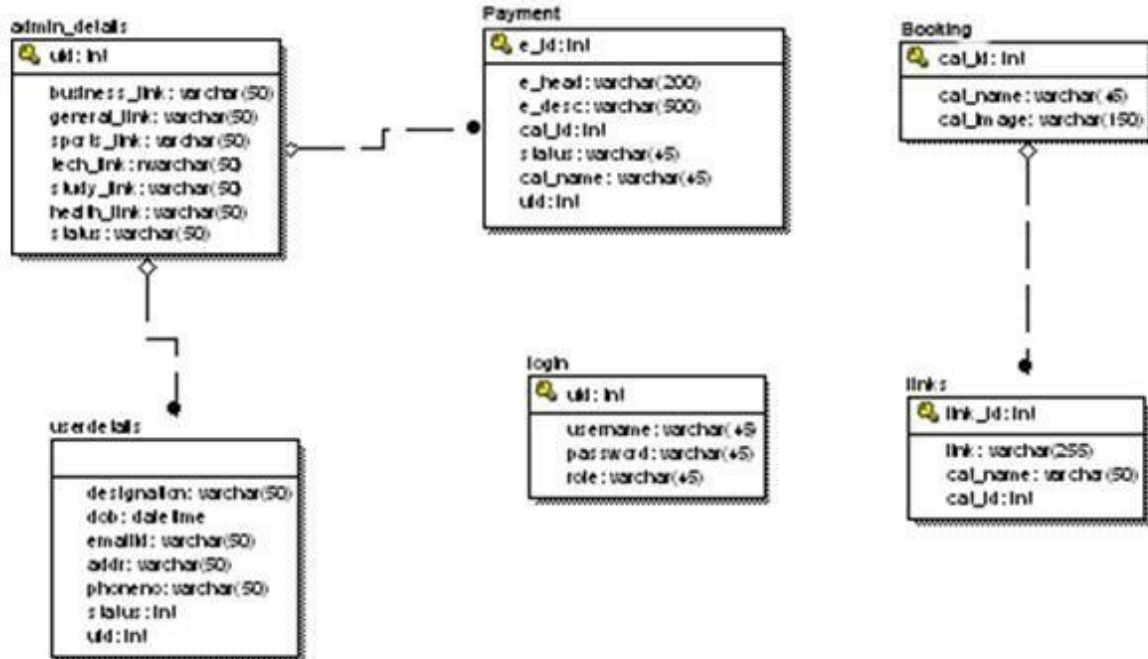


Figure: ER diagram

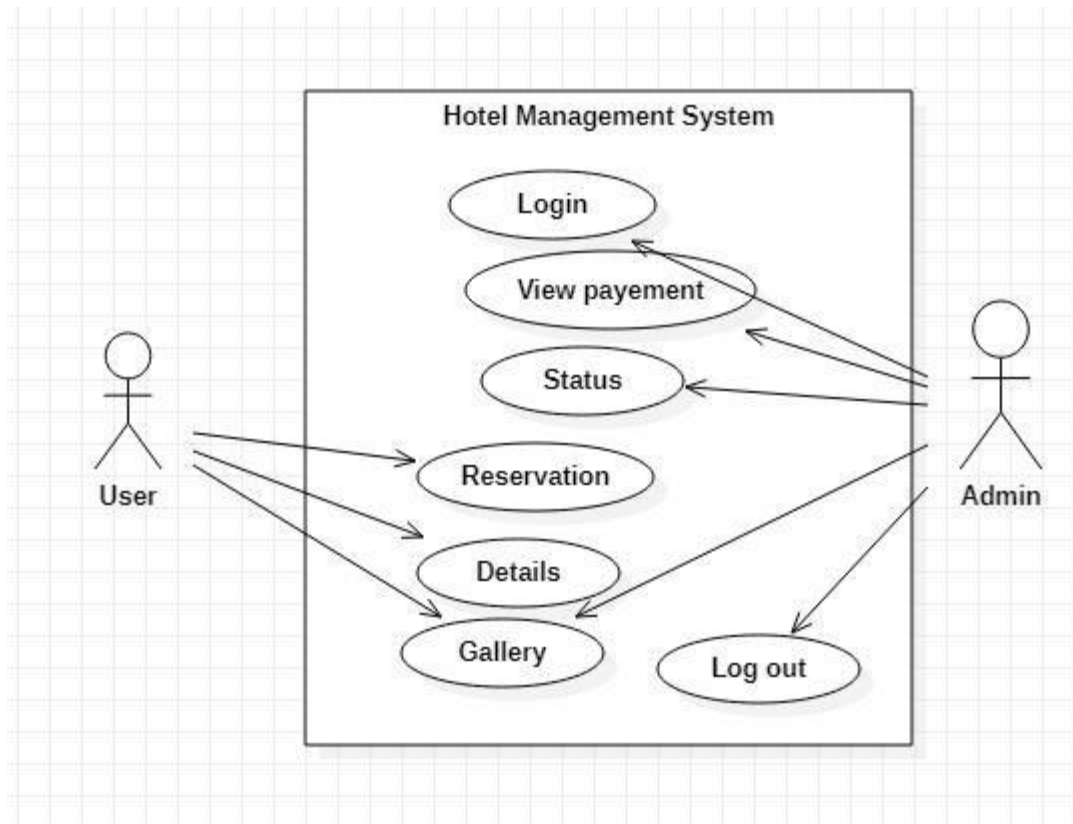


Figure: Use case Diagram

Database

hotel room	
id	int(10) unsigned
type	varchar(15)
bedding	varchar(10)
place	varchar(10)
# cusid	int(11)

hotel roombook	
id	int(10) unsigned
Title	varchar(5)
FName	text
LName	text
Email	varchar(50)
National	varchar(30)
Country	varchar(30)
Phone	text
TRoom	varchar(20)
Bed	varchar(10)
NRoom	varchar(2)
Meal	varchar(15)
cin	date
cout	date
stat	varchar(15)
# nodays	int(11)

hotel newsletterlog	
id	int(10) unsigned
title	varchar(52)
subject	varchar(100)
news	text

hotel contact	
id	int(10) unsigned
fullname	varchar(100)
# phoneno	int(10)
email	text
cdate	date
approval	varchar(12)

hotel login	
id	int(10) unsigned
usname	varchar(30)
pass	varchar(30)

hotel payment	
# id	int(11)
title	varchar(5)
fname	varchar(30)
lname	varchar(30)
troom	varchar(30)
tbed	varchar(30)
# nroom	int(11)
cin	date
cout	date
# ttot	double(8,2)
# fintot	double(8,2)
# mepr	double(8,2)
meal	varchar(30)
# btot	double(8,2)
# noofdays	int(11)

Figure: Schema Diagram

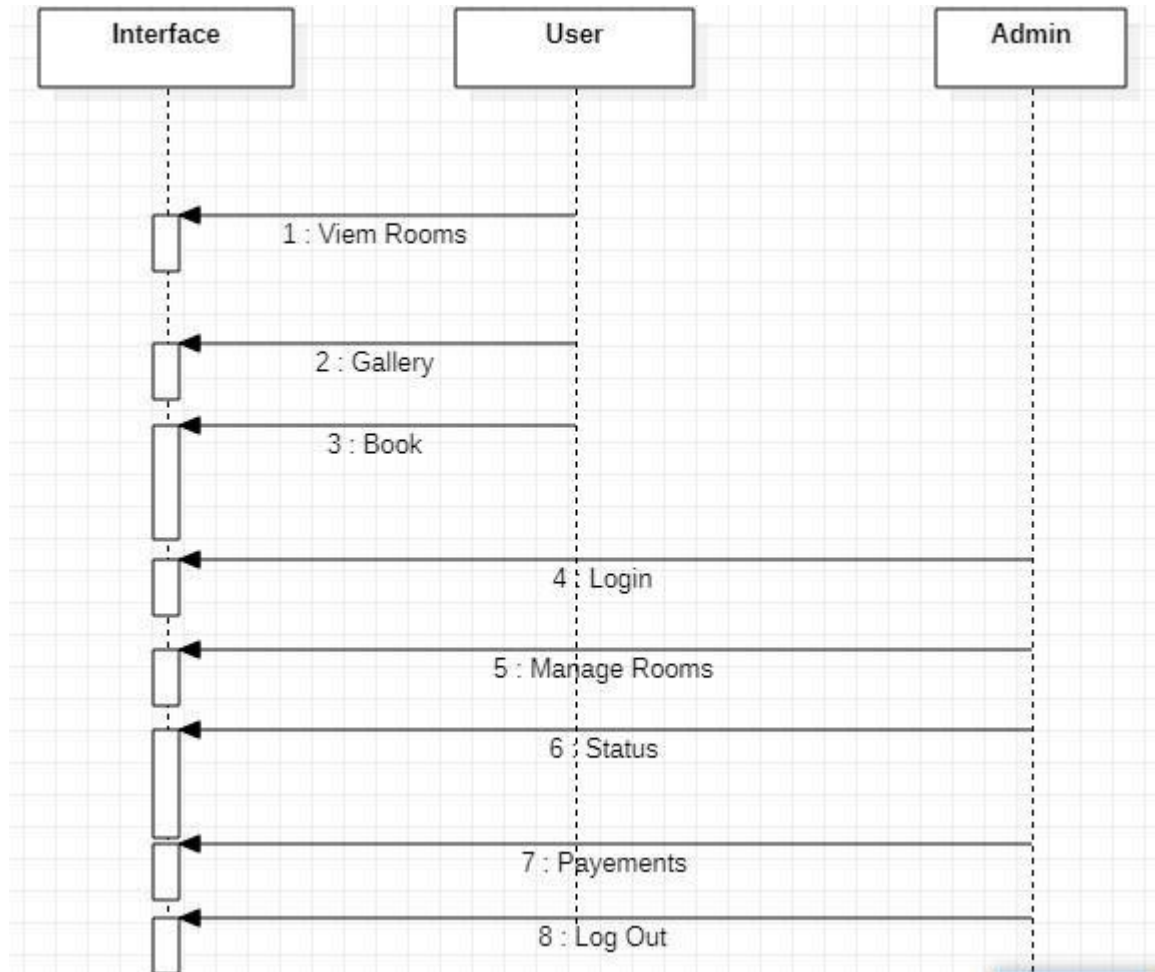


Figure: Sequence Diagram

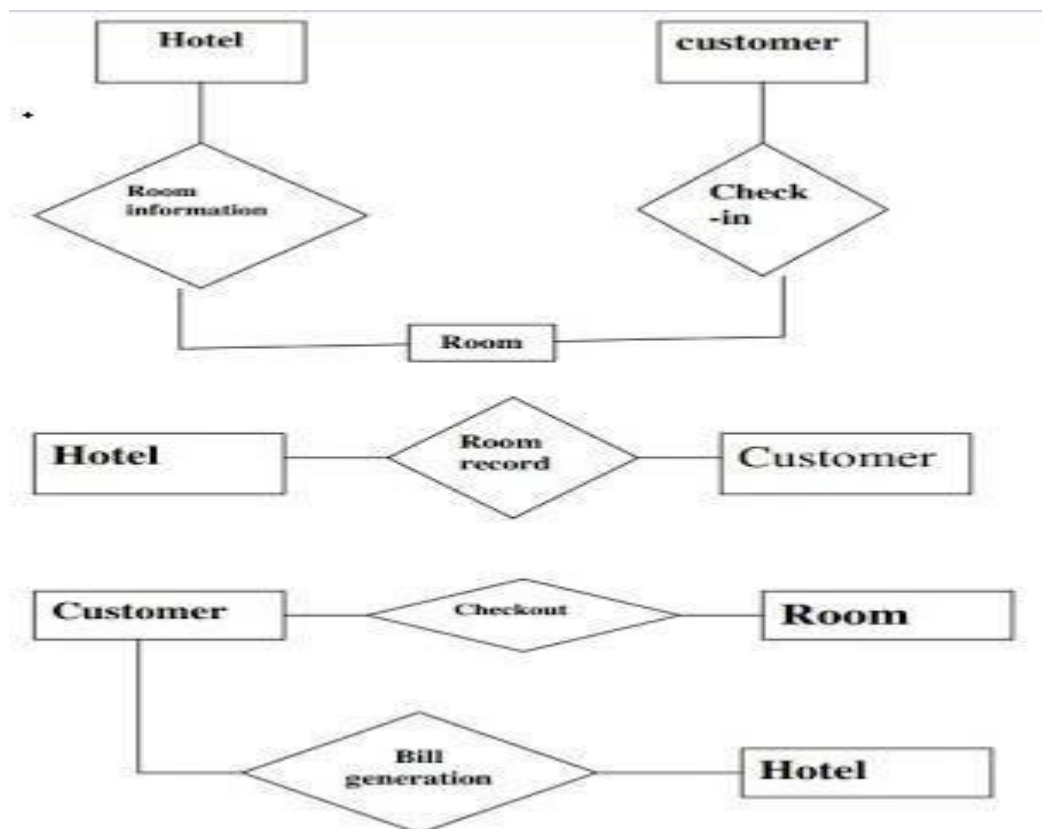


Figure: Flow Chart Diagram

Chapter II: Task and Activities Performed

2.1 Advantage

- The advantages of *booking a hotel online* add up long before your arrival. Our legendary customer service extends to the web
- 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.
- Read reviews and compare prices for *Online Hotel Booking*.
- The most important advantage of online hotel booking is convenience, you can book your room by simply sitting in home. Internet helps you to browse through the hotels around the world and compare the facilities and rates easily.

2.2 Structure of the project

✚ After Administrator Login

- Status
- View Booking
- View Rooms
- View payment's
- News Letter
- Logout

✚ Users visit

- View rooms
- View Gallery
- View services
- Book

2.3 Scope and Feasibility

This activity is also known as the feasibility study.

Perform and evaluate feasibility studies like cost-benefit analysis, technical feasibility, time feasibility and operational feasibility for the project. Project Scheduling should be made using charts. Feasibility study is carried out to decide whether the proposed system is feasible for the company. It begins with a request from the user for a new system. It involves the following:

- Identify the responsible user for a new system
- Clarify the user request
- Identify deficiencies in the current system
- Establish goals and objectives for the new system
- Determine the feasibility for the new system
- Prepare a project charter that will be used to guide the remainder of the Project

2.4 System Analysis

It is a process of collecting and interpreting facts, identifying the problems, and decomposition of a system into its components.

System analysis is conducted for the purpose of studying a system or its parts in order to identify its objectives. It is a problem solving technique that improves the system and ensures that all the components of the system work efficiently to accomplish their purpose.

The objective of the system analysis activity is to develop structured system specification for the proposed system. The structured system specification should describe what the proposed system would do; independent of the technology, which will be used to implement these requirements. The structured system specification will be used to implement these requirements.

The essential model may itself consist of multiple models, modeling different aspects of the system. The data flow diagrams may model the data and their relationships and the state transition diagram may model time dependent behavior of the system. The essential model thus consists of the following.

- Context diagram
- Levelled data flow diagrams

- Process specification for elementary bubbles
- Data dictionary for the flow and stores on the DFDs.

2.5 System Design

System design involves transformation of the user implementation model into software design.

The design specification of the proposed system consists of the following:

- Database scheme
- Sequence Diagram
- Flow Chart

2.6 Implementation

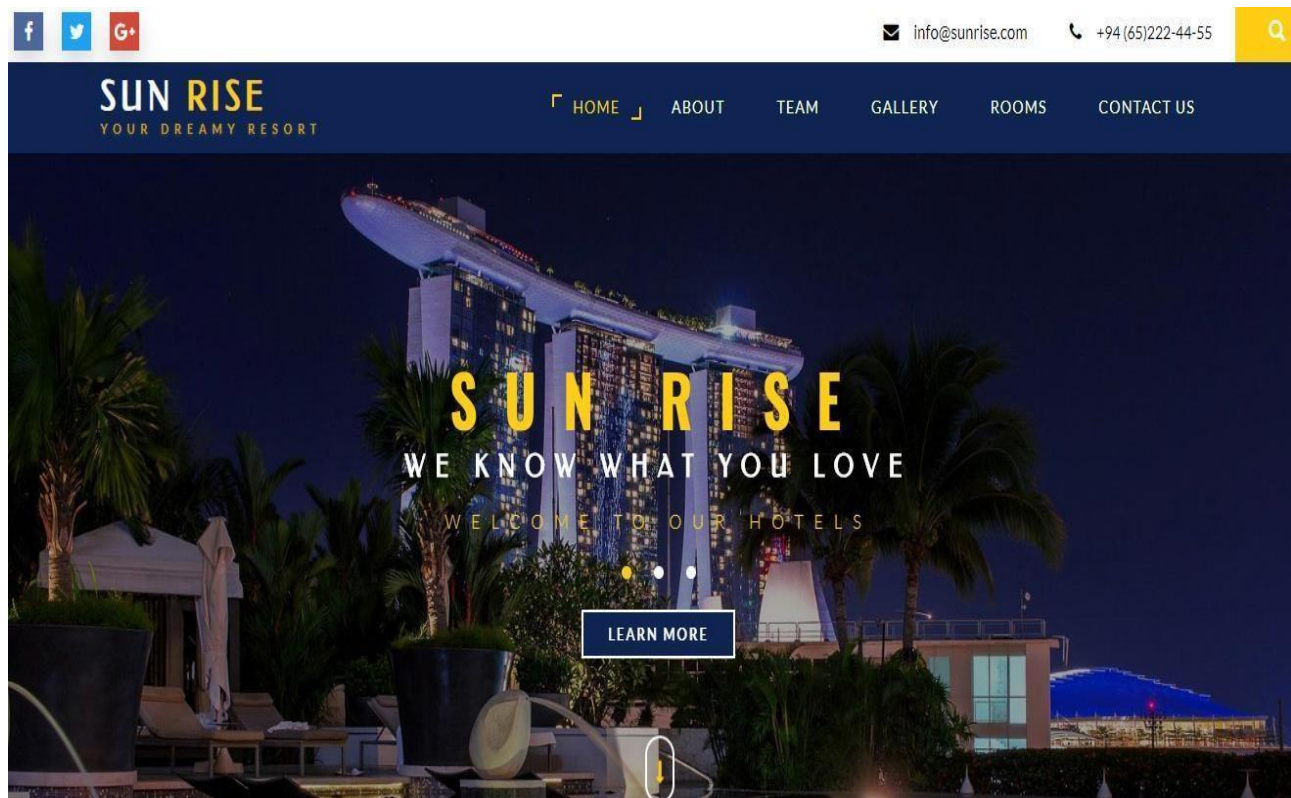
This activity includes programming, testing and integration of modules into a progressively more complete system. Implementation is the process of collect all the required parts and assembles them into a major product.

2.7 Test Generation

This activity generates a set of test data, which can be used to test the new system before accepting it. In the test generation phase all the parts are come which are to be tested to ensure that system does not produce any error. If there are some errors then we remove them and further it goes for accepting.

Screen Shorts

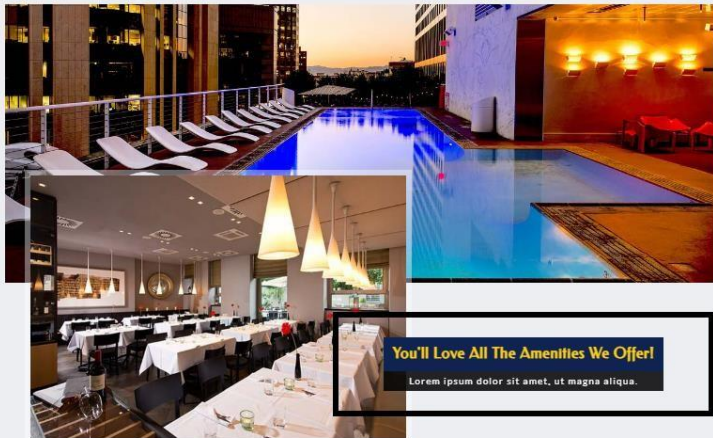
Home page



About

About Our SUN RISE

Lorem ipsum is simply dummy text of the printing and typesetting industry. Sed tempus vestibulum lacus blandit faucibus. Nunc imperdiet, diam nec rhoncus ullamcorper, nisl nulla suscipit ligula, at imperdiet urna



You'll Love All The Amenities We Offer!

Lorem ipsum dolor sit amet, ut magna aliqua.



Team

Meet Our Team



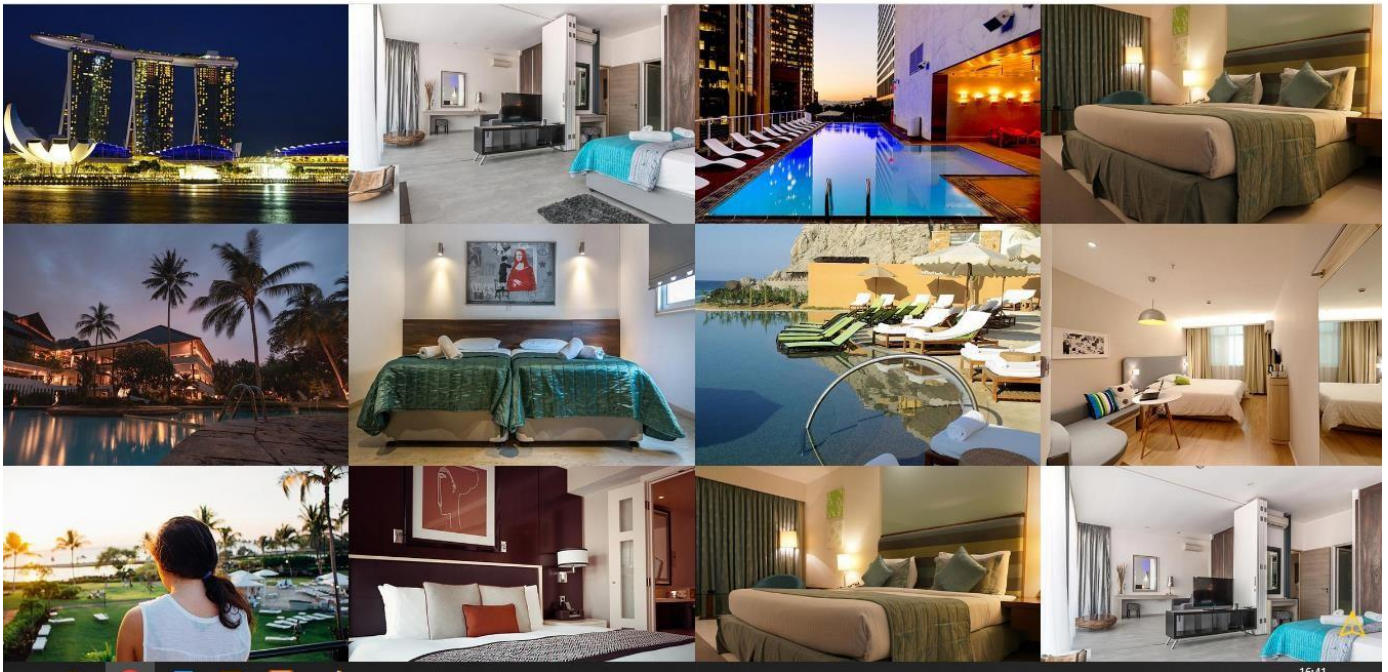
Lucas Jimenez

MANAGER

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis Lorem ipsum dolor.



Gallery



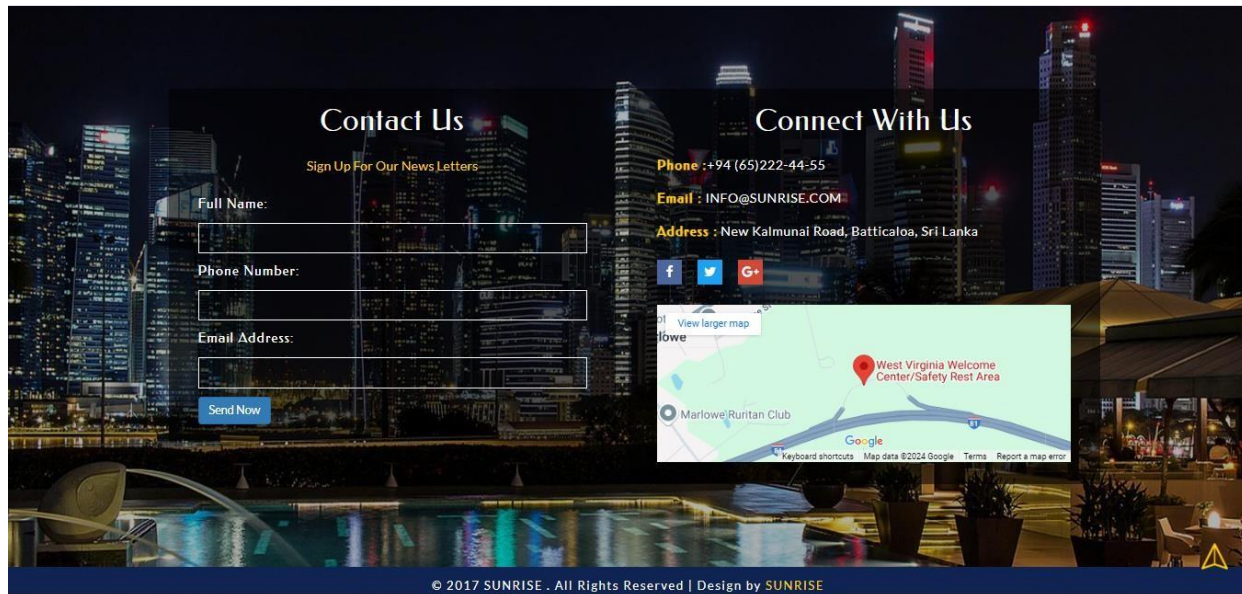
Rooms

Rooms And Rates

 <p>Deluxe Room</p> <p>★★★★☆</p> <p>\$ 320 Book Now</p>	 <p>Luxury Room</p> <p>★★★★☆</p> <p>\$ 220 Book Now</p>	 <p>Guest House</p> <p>★★★★☆</p> <p>\$ 180 Book Now</p>	 <p>Single Room</p> <p>★★★☆☆</p> <p>\$ 150 Book Now</p>
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Email : INFO@SUNRISE.COM

Address : New Kalmunai Road, Batticaloa, Sri Lanka

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[View larger map](#)

Marlowe/Ruritan Club

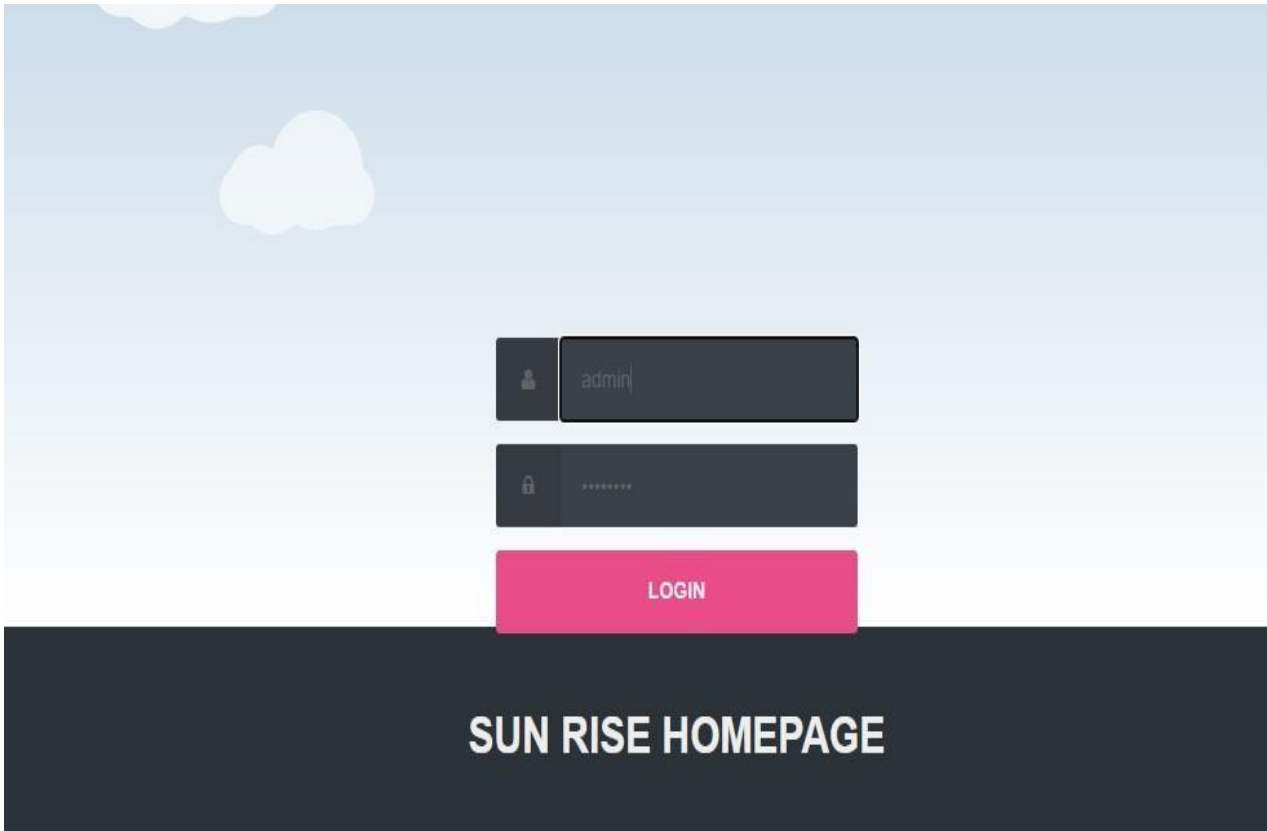
West Virginia Welcome Center/Safety Rest Area

Google

[Keyboard shortcuts](#) [Map data ©2024 Google](#) [Terms](#) [Report a map error](#)

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Login page



The login page features a light blue sky background with a single white cloud. In the center, there is a login form with two dark gray input fields. The first field contains the text 'admin' and has a user icon on its left. The second field contains a series of dots for a password and has a lock icon on its left. Below these fields is a bright pink button with the text 'LOGIN' in white. At the bottom of the page is a dark gray footer bar with the text 'SUN RISE HOMEPAGE' in white.

admin

password

LOGIN

SUN RISE HOMEPAGE

Admin

ADMIN

Status

News Letters

Room Booking

Payment

Profit

Logout

Status Room Booking

New Room Bookings 2

#	Name	Email	Country	Room	Bedding	Meal	Check In	Check Out	Status	More
7	meta sdf	sfsd@gnmail.com	Bangladesh	Superior Room	Double	Breakfast	2024-09-20	2024-09-21	Not Conform	Action
8	dhaval ahir	d@gmail.com	Bahamas	Superior Room	Single	Room only	2024-09-19	2024-09-22	Not Conform	Action

Booked Rooms 5

Followers 8

Reservation Form

RESERVATION

PERSONAL INFORMATION

Title*

First Name

Last Name

Email

Nationality*

☒ Sri Lankan

☐ Non Sri Lankan

Passport Country*

Phone Number

RESERVATION INFORMATION

Type Of Room *

Bedding Type

No. of Rooms *

Meal Plan

Check-In

dd-mm-yyyy

Check-Out

dd-mm-yyyy

HUMAN VERIFICATION

Type Below this code 709390976

Enter the random code

Submit

Payment

SUNRISE HOTEL

localhost/hotel/admin/payment.php

ADMIN

Status

News Letters

Room Booking

Payment

Profit

Logout

Payment Details

10 records per page

Search:

Name	Room type	Bed Type	Check in	Check out	No of Room	Meal Type	Room Rent	Bed Rent	Meals	Gr.Total	Print
Dr. fda fas	Guest House	Double	2024-09-21	2024-09-28	2	Breakfast	2520.00	50.40	25.20	2595.60	Print
Dr. vikram meta	Superior Room	Single	2024-09-27	2024-09-29	2	Breakfast	1280.00	12.80	6.40	1299.20	Print
Dr. xyz ahir	Superior Room	Single	2024-09-25	2024-09-21	4	Half Board	-5120.00	-38.40	-12.80	-5171.20	Print
Mr. ravi chhatrodiya	Deluxe Room	Double	2024-09-14	2024-09-22	1	Breakfast	1760.00	70.40	35.20	1865.60	Print
Mrs. m kjk	Superior Room	Double	2024-09-25	2024-09-28	3	Room only	2880.00	0.00	19.20	2899.20	Print

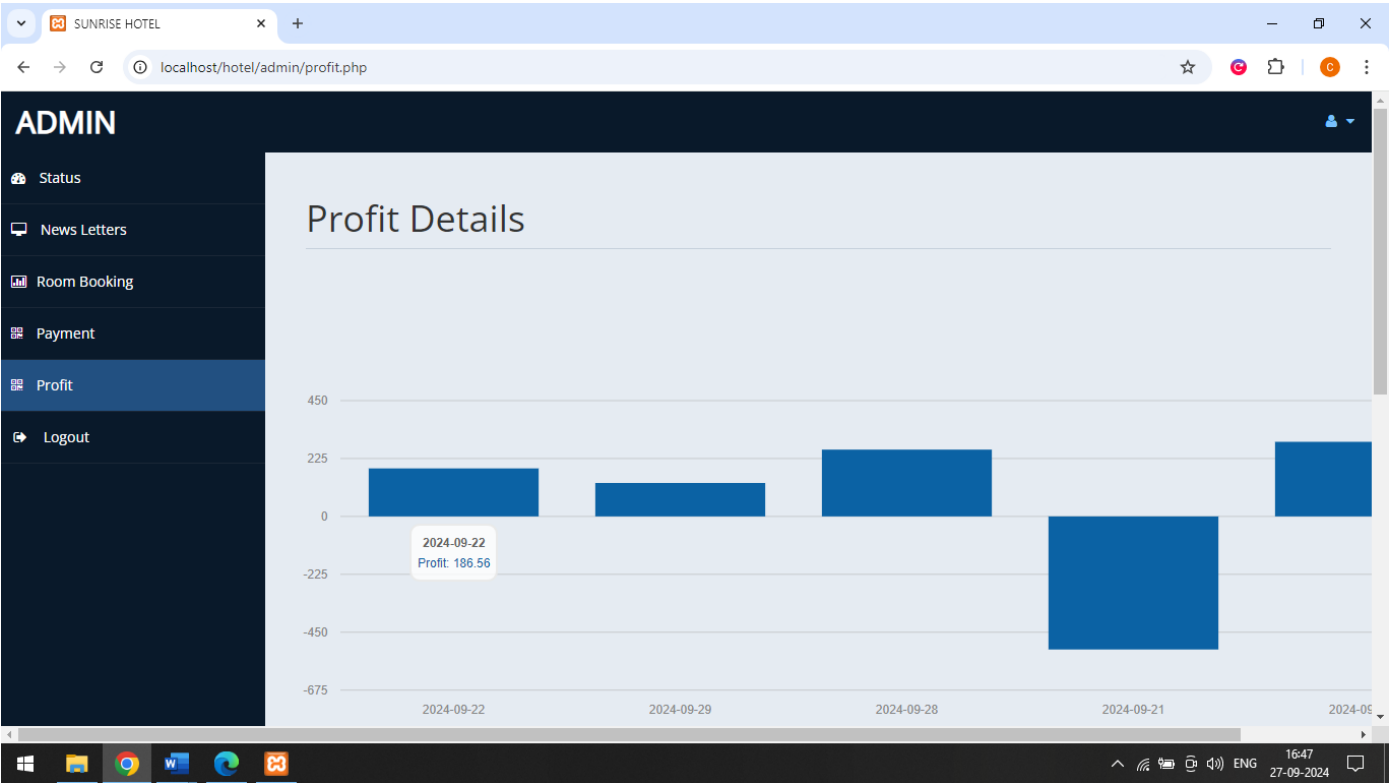
Showing 1 to 5 of 5 entries

Previous1Next

16:43

27-09-2024

Profit Chart



Hotel Database

phpMyAdmin

Recent Favourites

New

hotel

New

contact

login

newsletterlog

payment

room

roombook

information_schema

mysql

performance_schema

phpmyadmin

test

Server: 127.0.0.1 Database: hotel

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers Tracking Designer

Filters

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> contact		0	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> login		1	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> newsletterlog		0	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> payment		5	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> room		14	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> roombook		7	InnoDB	latin1_swedish_ci	16.0 KiB	-
6 tables	Sum	27	InnoDB	utf8mb4_general_ci	96.0 KiB	0 B

☐ Check all With selected:

Print

Data dictionary

Create new table

Table name

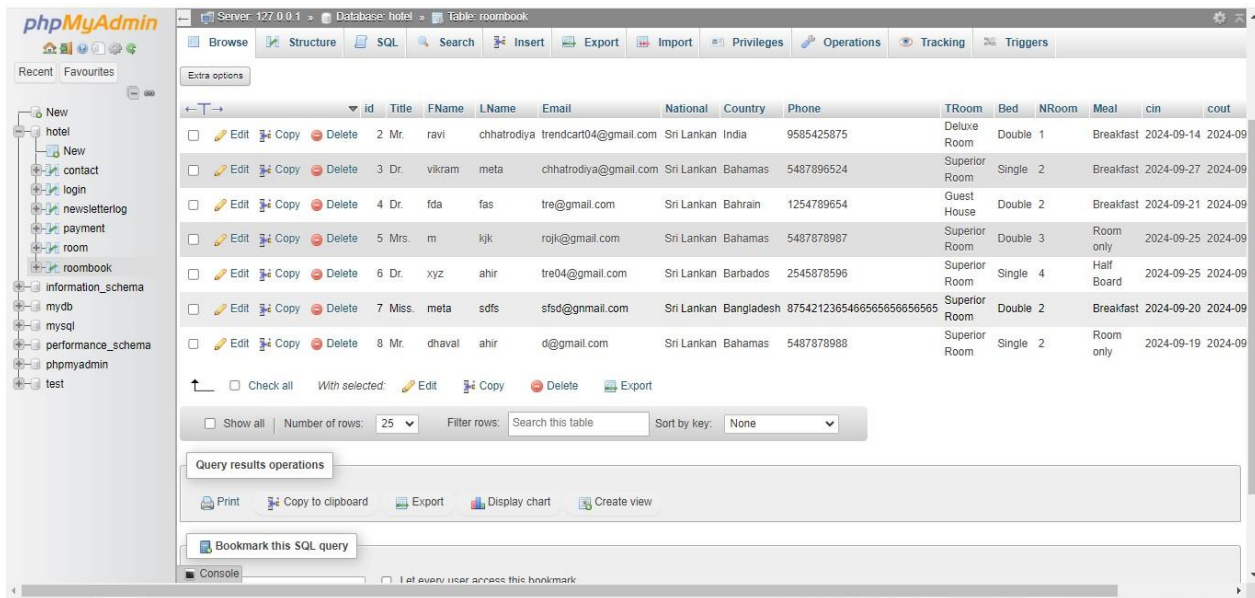
Number of columns

4

Create

Console

Rooms Book



TESTING LEVEL

LEVEL : 1

- Testing is one of the important steps in system development. Software Testing also provides an objective, independent view of the software to allow the business to appreciate and understand the risks at implementation of the software. Test techniques include, but are not limited to, the process of executing a program or application with the intent of finding software bugs.
- Software Testing can also be stated as the process of validating and verifying that a software program/application/product:
- Meets the business and technical requirements that guided its design and development.
- Software Testing, depending on the testing method employed can be implemented at any time in the development process. However, most of the test effort occurs after the requirements have been defined and the coding process has been completed. As such, the methodology of the test is governed by the Software Development methodology adopted.

LEVEL : 2

- Tests are frequently grouped by where they are added in the software development process, or by the level of specificity of the test.

Unit Testing :

- Unit Testing refers to tests that verify the functionality of a specific section of code, usually at the function level. In an object-oriented environment, this is usually at the class level, and the minimal unit tests include the constructors and destructors.
- These types of tests are usually written by developers as they work on code (white-box style), to ensure that the specific function is working as expected. One function might have multiple tests, to catch corner cases or other branches in the code. Unit testing alone cannot verify the functionality of a piece of software, but rather is used to assure that the building blocks the software uses work independently of each other. Unit testing is also called Component Testing.

Integration Testing :

- Integration Testing is any type of software testing that seeks to verify the interfaces between components against a software design. Software components may be integrated in an iterative way or all together ("big bang"). Normally the former is considered a better practice since it allows interface issues to be localized more quickly and fixed.
- Integration Testing works to expose defects in the interfaces and interaction between integrated components (modules). Progressively larger groups of tested software components corresponding to elements of the architectural design are integrated and tested until the software works as a system.

System Testing :

- System Testing tests a completely integrated system to verify that it meets its requirements.

Types Of Testing :

1. Functional Testing :

- It is an approach to testing where the tests are derived from the program or component specification. The system is a black box whose behavior can only be determined by studying its inputs and the related outputs.

2. Structural Testing :

- Structural testing is an approach to testing where the tests are derived from knowledge of the software's structure and implementation. This approach is sometimes called white-box testing, to distinguish from black –box testing.

FUTURE WORK :

- We have done analysis of this entire system till now, and in future we will develop this system as per our analysis.
- In future this application will become very user-friendly..
- We will convert this web-site into online management so that any user can access our web-site anywhere through their mobiles.

Conclusion :

- I have developed “Om Electronics” website in order to overcome the difficulties in managing the existing manual system. The website has been designed effectively keeping in mind, the possible future enhancement and additional functionality; it has been designed to run in an efficient way.
- The website is designed to be very user-friendly and interactive manner so that the user cannot find any difficulty while browsing the website. Thereby the proposed website, which is an economically, technically and operationally feasible system has overcome the deficiency that was present in the manual system.

REFERENCES :

- This project was impossible to be a success without the support and help from the experience guide; the books and mainly the internet really prove it for us the “Information Highway”. Everything was really easy to find out on the internet.

Website :

1. W3Schools: Offers fundamental PHP tutorials, great for beginners.

www.w3schools.com

2.PHPGurukul: This website provides complete projects with source code, including hotel management systems in PHP.

- www.phpgurukul.com

3.SourceCodester: Provides a wide range of projects with full source code in PHP, including hotel management systems.

- www.sourcecodester.com

4.TutorialsPoint: Great resource for PHP tutorials and project ideas.

- www.tutorialspoint.com

5.GitHub: You can find many open-source hotel management PHP projects here to study and modify.

- www.github.com

**THANK
YOU**

