

WEB DEVELOPMENT

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Computer Science

VJTI

HOTEL MANAGEMENT PROJECT

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Abstract

Hotels need to maintain the record of guests and reserve rooms beforehand. Customers should be able to know the availability of the rooms on a particular date. They should be able to reserve the available rooms according to their need in advance. To make their stay comfortable, they are provided with food and other services. The record of the food taken by each customer and the services availed by the customer should be kept. These records help in generating bills and thus would help in calculating the total profit.

Goals

1. Make Hotel Reservations easy and convenient for the customers of HOTEL MUFASA.
2. To learn how to use different web modelling methods and to implement them.
3. To Provide a transparent and crystal clear view of all the DataBase Management System at HOTEL MUFASA.

Specifications

The hotel reservation system should be able to satisfy the following Specifications :

- The system should be able to keep the records of the guests and the room allotted to them.
- Customers should be able to know the availability of the rooms.
- Guests should be able to book the available rooms online. The system should be able to generate the bill for a customer. The user interface of the website should be interactive/responsive to make the process easy and interesting.
- The user should feel very convenient and should have a great experience in the booking process. The database should be very transparent for the service provider's side so as to confirm the bookings.
- The user should easily catch the idea of the various services provided by the hotel and thus in order to do so we have tried to add simplicity in the User Interface and thus making the database more complex.
- The key feature of our project is the kind of complexity it holds in its database, the complexity in the database. The implementation of our ideas not only makes the booking process easy for the user but also for the Hotel.

- Our Administration Page is very well programmed and provides perks to the service provider/Hotel to keep the records of all the bookings, availability, profits, Queries made by visitors to the hotel management (which get added as followers to the Admin Page) etc. The booking query made by the customer is stored into the booking database and is only confirmed by the Service Provider and thus helps to allow only genuine Customer's stay thus the Security to the Hotel and its environment have minimum chance of inconvenience.
- The project also focuses on storing even minute details about user's action on the Website and thus providing us with feedback data that lets us know which kind of services provided by the Hotel are best and which kind of services are regularly demanded.
- As a part of innovation the queries made by the user are stored into a section called as New's Letter and thus on the granting of permission by the Hotel Admin one can become a follower of the Hotel and gets regular updates of the Hotel.
- Each booking done by the Customer is unconfirmed and appends to the Admin side who approves the Booking on the Availability of the desired Room. Each time a Booking is done changes are observed in the Database i.e. a new guest to the data is added along with date of check in, check out, Nationality etc. and one room gets subtracted from the database thus the data needs no more manual configuration.
- Admin Page has been made so easy to access with, once an admin logs in he/she can add a new admin account to the Dashboard through which any different authorised person can log in and look into the Data Statistics. Overall the Complexity of the Database helps the user and the service provider to easily and conveniently take and give Services.
- The administration can track their business and profits in the profit tab, each booking comes with some amount of profit which gets plotted on a bar graph which enables the Hotel to track the Business.
- Also booking can be done from any part of the world which is a big perk for the user and Hotel as now the Customer and Hotel communicate with each other through Emails and instant Queries

which gets stored into the database and thus chances of any errors is highly minimised.

Tools Used:

FRONT-END:

HTML:

HTML5 is the latest evolution of the standard that defines HTML. The term represents two different concepts. It is a new version of the language HTML, with new elements, attributes, and behaviors, and a larger set of technologies that allows the building of more diverse and powerful Web sites and applications. This set is sometimes called HTML5 & friends and often shortened to just HTML5.

Designed to be usable by all Open Web developers, this reference page links to numerous resources about HTML5 technologies, classified into several groups based on their function.

- *Semantics*: allowing you to describe more precisely what your content is.
- *Connectivity*: allowing you to communicate with the server in new and innovative ways.
- *Offline and storage*: allowing web pages to store data on the client-side locally and operate offline more efficiently.
- *Multimedia*: making video and audio first-class citizens in the Open Web.
- *2D/3D graphics and effects*: allowing a much more diverse range of presentation options.
- *Performance and integration*: providing greater speed optimization and better usage of computer hardware.
- *Device access*: allowing for the usage of various input and output devices.
- *Styling*: letting authors write more sophisticated themes.

CSS:

Cascading Style Sheets (CSS) is a stylesheet language used to describe the presentation of a document written in HTML or XML (including XML dialects such as SVG, MathML or XHTML). CSS describes how elements should be rendered on screen, on paper, in speech, or on other media.

CSS is one of the core languages of the open Web and is standardized across Web browsers according to the W3C specification. Developed in levels, CSS1 is now obsolete, CSS2.1 is a recommendation, and CSS3, now split into smaller modules, is progressing on the standardization track.

JavaScript:

JavaScript (JS) is a lightweight, interpreted, or just-in-time compiled programming language with first-class functions. While it is most well-known as the scripting language for Web pages, many non-browser environments also use it, such as Node.js, Apache CouchDB and Adobe Acrobat. JavaScript is a prototype-based, multi-paradigm, single-threaded, dynamic language, supporting object-oriented, imperative, and declarative (e.g. functional programming) styles. Read more about [JavaScript](#).

This section is dedicated to the JavaScript language itself, and not the parts that are specific to Web pages or other host environments. For information about APIs specific to Web pages, please see [Web APIs](#) and [DOM](#).

The standard for JavaScript is ECMAScript. As of 2012, all modern browsers fully support ECMAScript 5.1. Older browsers support at least ECMAScript 3. On June 17, 2015, ECMA International published the sixth major version of ECMAScript, which is officially called ECMAScript 2015, and was initially referred to as ECMAScript 6 or ES6. Since then, ECMAScript standards are on yearly release cycles. This documentation refers to the latest draft version, which is currently ECMAScript 2020.

Do not confuse JavaScript with the Java programming language. Both "Java" and "JavaScript" are trademarks or registered trademarks of Oracle in the U.S. and other countries. However, the two programming languages have very different syntax, semantics, and uses.

BACK-END:

PHP:

PHP started out as a small open source project that evolved as more and more people found out how useful it was. Rasmus Lerdorf unleashed the first version of PHP way back in 1994.

PHP is a recursive acronym for "PHP: Hypertext Preprocessor".

PHP is a server side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites.

It is integrated with a number of popular databases, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server.

PHP is pleasingly zippy in its execution, especially when compiled as an Apache module on the Unix side. The MySQL server, once started, executes even very complex queries with huge result sets in record-setting time.

PHP supports a large number of major protocols such as POP3, IMAP, and LDAP. PHP4 added support for Java and distributed object architectures (COM and CORBA), making n-tier development a possibility for the first time.

PHP is forgiving: PHP language tries to be as forgiving as possible.

PHP Syntax is C-Like.

Common uses of PHP:

PHP performs system functions, i.e. from files on a system it can create, open, read, write, and close them.

PHP can handle forms, i.e. gather data from files, save data to a file, through email you can send data, return data to the user.

You add, delete, modify elements within your database through PHP. Access cookies variables and set cookies.

Using PHP, you can restrict users to access some pages of your website.

It can encrypt data.

Characteristics of PHP:

Five important characteristics make PHP's practical nature possible –

- Simplicity
- Efficiency
- Security
- Flexibility
- Familiarity

MySql:

MySQL is a database management system.

A database is a structured collection of data. It may be anything from a simple shopping list to a picture gallery or the vast amounts of information in a corporate network. To add, access, and process data stored in a computer database, you need a database management system such as MySQL Server. Since computers are very good at handling large amounts of data, database management systems play a central role in computing, as standalone utilities, or as parts of other applications.

MySQL databases are relational.

A relational database stores data in separate tables rather than putting all the data in one big storeroom. The database structures are organized into physical files optimized for speed. The logical model, with objects such as databases, tables, views, rows, and columns, offers a flexible programming environment. You set up rules governing the relationships between different data fields, such as one-to-one, one-to-many, unique, required or optional, and “pointers” between different tables. The database enforces these rules, so that with a well-designed database, your application never sees inconsistent, duplicate, orphan, out-of-date, or missing data.

The SQL part of “MySQL” stands for “Structured Query Language”. SQL is the most common standardized language used to access databases. Depending on your programming environment, you might enter SQL directly (for example, to generate reports), embed SQL statements into code written in another language, or use a language-specific API that hides the SQL syntax.

SQL is defined by the ANSI/ISO SQL Standard. The SQL standard has been evolving since 1986 and several versions exist. In this manual, “SQL-92” refers to the standard released in 1992, “SQL1999” refers to the standard released in 1999, and “SQL:2003” refers to the current version of the standard. We use the phrase “the SQL standard” to mean the current version of the SQL Standard at any time.

- MySQL software is Open Source.

Open Source means that it is possible for anyone to use and modify the software. Anybody can download the MySQL software from the Internet and use it without paying anything. If you wish, you may study the source code and change it to suit your needs. The MySQL software uses the GPL (GNU General Public License), <http://www.fsf.org/licenses/>, to define what you may and may not do with the software in different situations. If you feel uncomfortable with the GPL or need to embed MySQL code into a commercial

application, you can buy a commercially licensed version from us. See the MySQL Licensing Overview for more information (<http://www.mysql.com/company/legal/licensing/>).

- The MySQL Database Server is very fast, reliable, scalable, and easy to use.

If that is what you are looking for, you should give it a try. MySQL Server can run comfortably on a desktop or laptop, alongside your other applications, web servers, and so on, requiring little or no attention. If you dedicate an entire machine to MySQL, you can adjust the settings to take advantage of all the memory, CPU power, and I/O capacity available. MySQL can also scale up to clusters of machines, networked together.

MySQL Server was originally developed to handle large databases much faster than existing solutions and has been successfully used in highly demanding production environments for several years. Although under constant development, MySQL Server today offers a rich and useful set of functions. Its connectivity, speed, and security make MySQL Server highly suited for accessing databases on the Internet.

- MySQL Server works in client/server or embedded systems.

The MySQL Database Software is a client/server system that consists of a multithreaded SQL server that supports different back ends, several different client programs and libraries, administrative tools, and a wide range of application programming interfaces (APIs).

We also provide MySQL Server as an embedded multithreaded library that you can link into your application to get a smaller, faster, easier-to-manage standalone product.

Database tables structures :

Payment Schema

id	title	fname	lname	troom	tbed	nroom	cin	cout	ttot	fintot	mepr	meal	btot	noofdays
2	Mr.	Ajinkya	Hazare	Guest House	Quad	1	2020-04-22	2020-04-24	360.00	432.00	57.60	Full Board	14.40	2
3	Mr.	Piyush	Itankar	Superior Room	Single	1	2020-04-25	2020-04-26	320.00	336.00	12.80	Full Board	3.20	1
4	Mr.	Ajinkya	Hazare	Superior Room	Double	1	2020-04-26	2020-04-27	320.00	352.00	25.60	Full Board	6.40	1
5	Dr.	Anant	Hazare	Guest House	Double	1	2020-04-24	2020-04-25	180.00	198.00	14.40	Full Board	3.60	1
6	Mr.	Pratik	Barai	Superior Room	Double	1	2020-04-27	2020-04-30	960.00	1017.60	38.40	Breakfast	19.20	3
10	Mr.	Hussain	Saif	Deluxe Room	Double	1	2020-04-24	2020-04-25	220.00	233.20	8.80	Breakfast	4.40	1
7	Mr.	Prem	Rathod	Deluxe Room	Triple	1	2020-04-28	2020-04-30	440.00	453.20	0.00	Room only	13.20	2
8	Mr.	Abhishek	Kalshetti	Guest House	Double	1	2020-04-29	2020-05-01	360.00	367.20	0.00	Room only	7.20	2

Room Schema

	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	id	type	bedding	place	cusid
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1	Superior Room	Single	NotFree	3
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	2	Superior Room	Double	NotFree	6
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	4	Single Room	Quad	Free	NULL
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	5	Superior Room	Quad	Free	NULL
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	6	Deluxe Room	Single	Free	NULL
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	7	Deluxe Room	Double	NotFree	10
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	8	Deluxe Room	Triple	NotFree	7
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	9	Deluxe Room	Quad	Free	NULL
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	10	Guest House	Single	Free	NULL
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	11	Guest House	Double	NotFree	8
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	12	Guest House	Quad	Free	0
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	13	Single Room	Single	Free	NULL
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	14	Single Room	Double	Free	NULL
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	15	Single Room	Triple	Free	NULL

Newsletter log Schema

	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	id	title	subject	news
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1	G		
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	2	Hello	Good Morniing	Thanks for choosing us for your service

Roombook Schema

	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	id	Title	FName	LName	Email	National	Country	Phone	TRoom	Bed	NRoom	Meal	cin	cout	stat
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	3	Mr.	Piyush	Itankar	pitankar14@gmail.com	Sri Lankan	Australia	9552047606	Superior Room	Single	1	Full Board	2020-04-25	2020-04-26	Conform
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	4	Mr.	Ajinkya	Hazare	ajinkya642000@gmail.com	Sri Lankan	Australia	9552047606	Superior Room	Double	1	Full Board	2020-04-26	2020-04-27	Conform
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	6	Mr.	Pratik	Barai	pbarai@gmail.com	Sri Lankan	India	9325443422	Superior Room	Double	1	Breakfast	2020-04-27	2020-04-30	Conform
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	7	Mr.	Prem	Rathod	prempathod1aug@gmail.com	Sri Lankan	India	9325443422	Deluxe Room	Triple	1	Room only	2020-04-28	2020-04-30	Conform
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	8	Mr.	Abhishek	Kalshetti	akshetti@gmail.com	Sri Lankan	India	9834222323	Guest House	Double	1	Room only	2020-04-29	2020-05-01	Conform
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	9	Mr.	Pratik	Jain	pratk@gmail.com	Sri Lankan	India	8343434334	Single Room	Single	1	Room only	2020-04-24	2020-04-26	Not Conform
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	10	Mr.	Hussain	Saif	saif@gmail.com	Sri Lankan	India	7883434343	Deluxe Room	Double	1	Breakfast	2020-04-24	2020-04-25	Conform
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	11	Mr.	Sanket	Barhate	sanket@gmail.com	Sri Lankan	India	8343434334	Single Room	Single	1	Room only	2020-04-27	2020-04-28	Not Conform
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	12	Mr.	Tanuj	Pancholi	tanuj@gmail.com	Sri Lankan	India	7883434343	Single Room	Quad	1	Breakfast	2020-04-24	2020-04-30	Not Conform
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	13	Mr.	Ayush	Ramteke	ajinkya@gmail.com	Sri Lankan	India	9834222323	Superior Room	Single	1	Room only	2020-05-01	2020-05-08	Not Conform

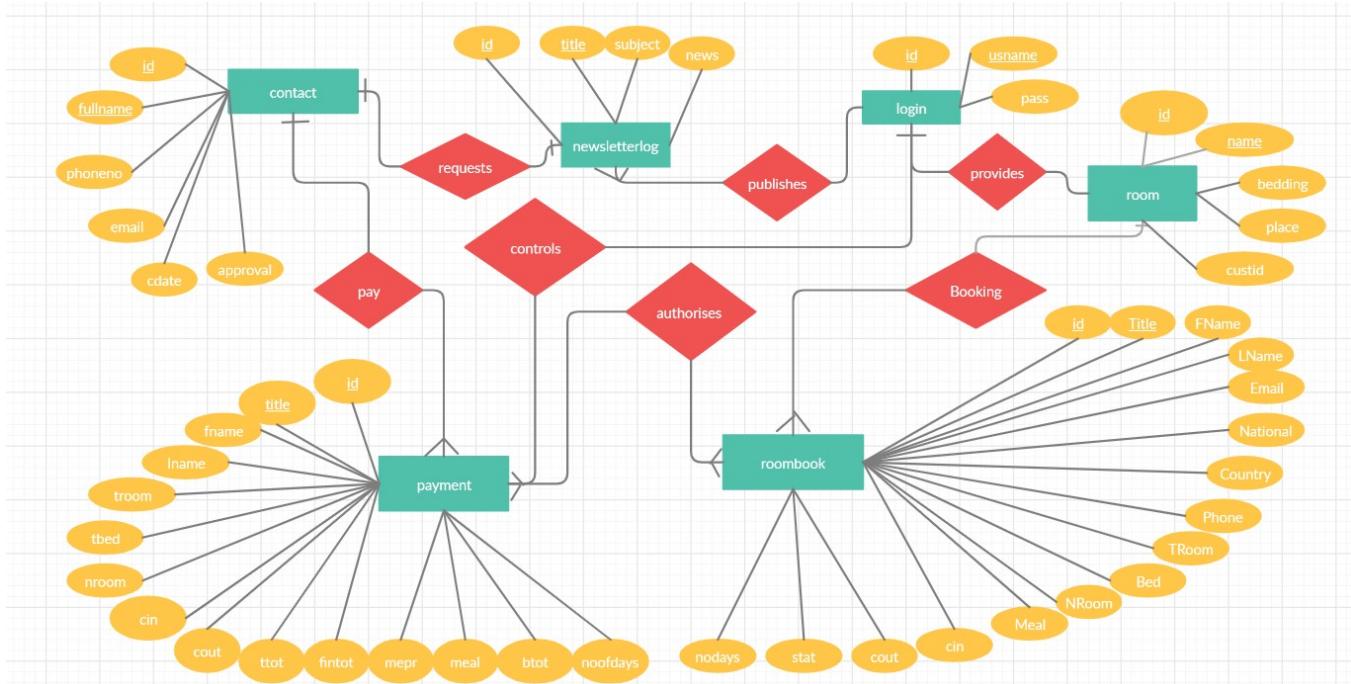
Login Schema

	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	id	username	pass
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1	Admin	1234
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	3	Ajinkya	12345

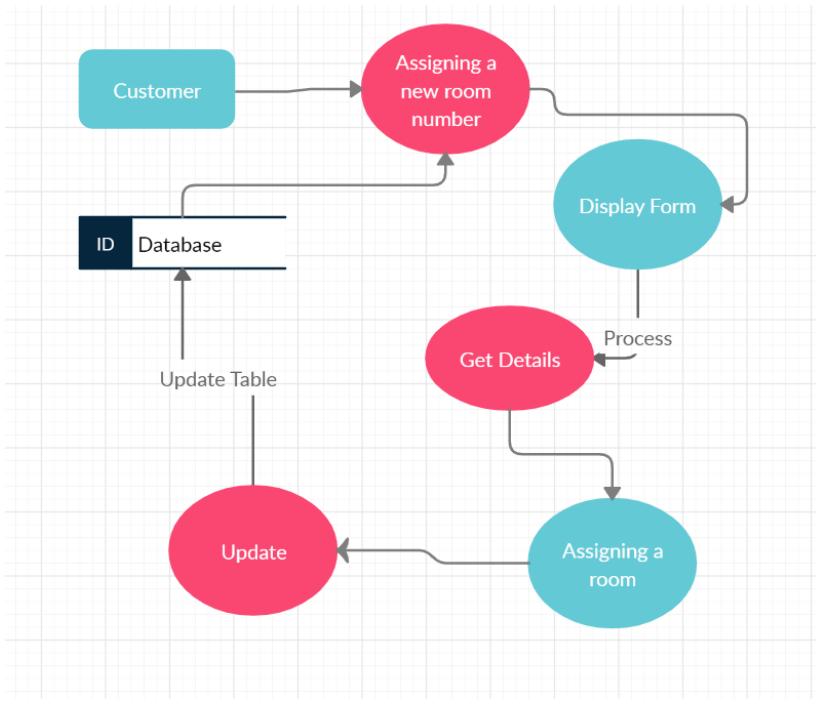
Contact Schema

+ Options						
	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	id	fullname	phoneno
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1	Ajinkya	2147483647
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	2	Piyush	2147483647
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	3	Abhishek	0
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	4	Husaain Saif	2147483647
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	5	Husaain Saif	2147483647

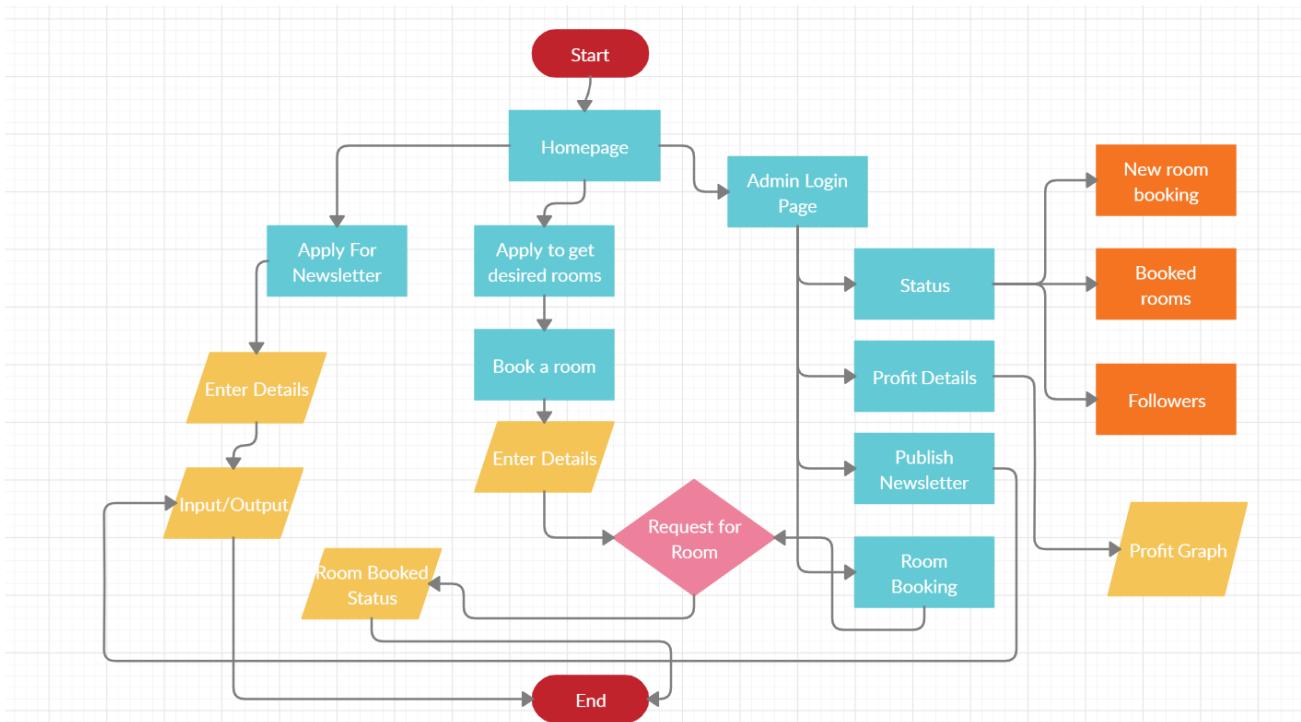
E-R diagram



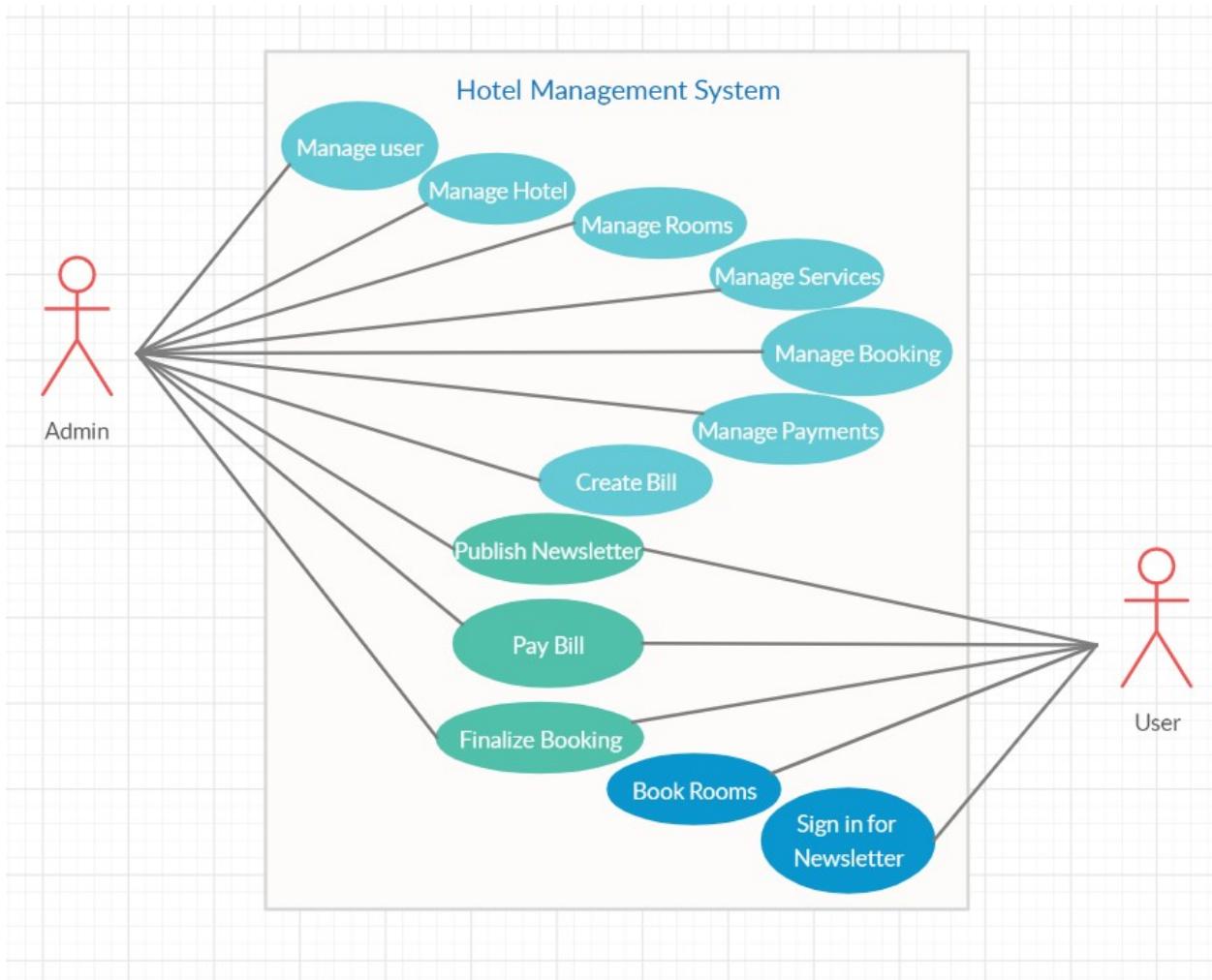
Data flow diagram for Check-In of a new customer



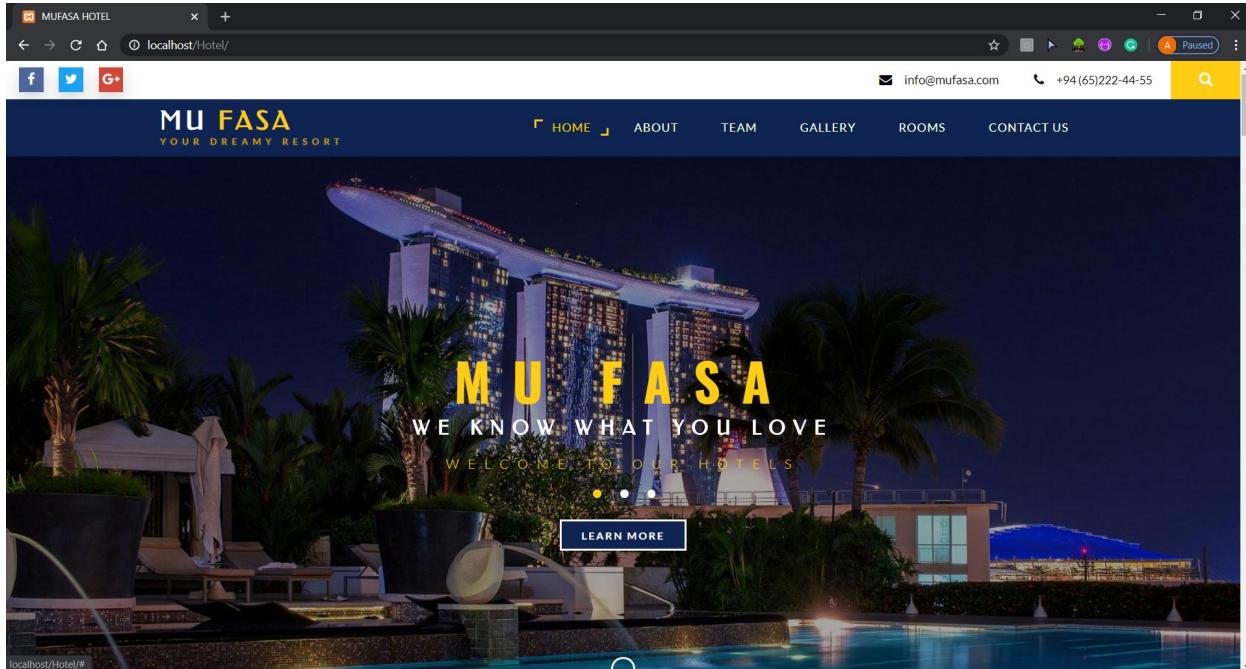
Flow Chart Of the Project



Use Case Diagram



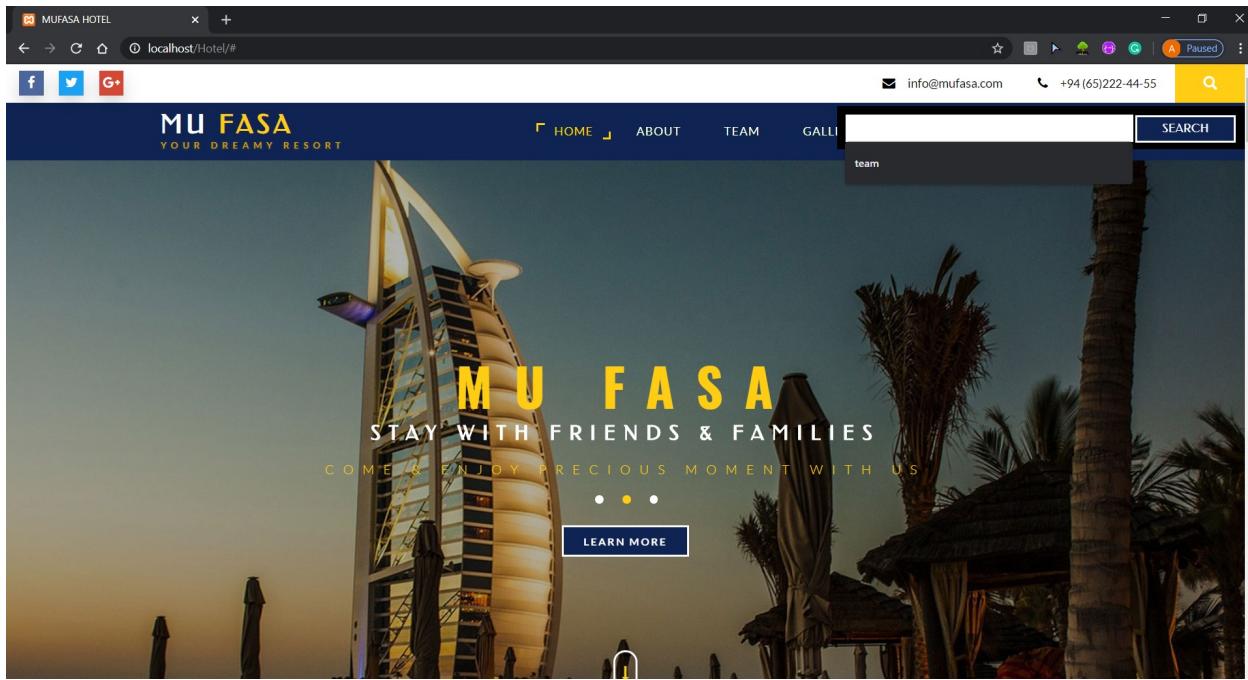
Homepage



localhost/Hotel/index.php(top section):

This is the Homepage of our Database Project. With attractive colours and images, it consists of two navbars- one with social media links and info about contact while the other one consists our title and common menu options to navigate quickly to the desired section. The search bar is also provided and the arrow at the right bottom will direct you to the top on click.

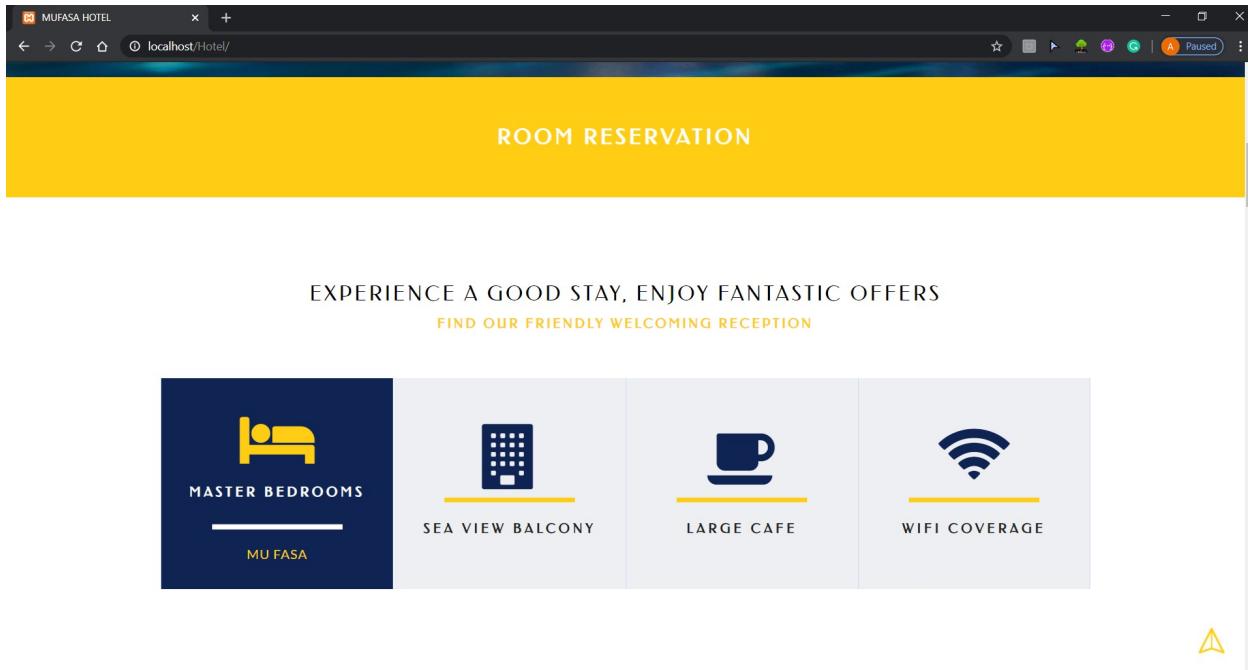
Provided with Search bar



localhost/Hotel/index.php(top section):

Our home page is provided with a search icon on the top-right corner. On click, a bar shows up for searching the desired text if needed. It will help new visitors find the desired section instantly.

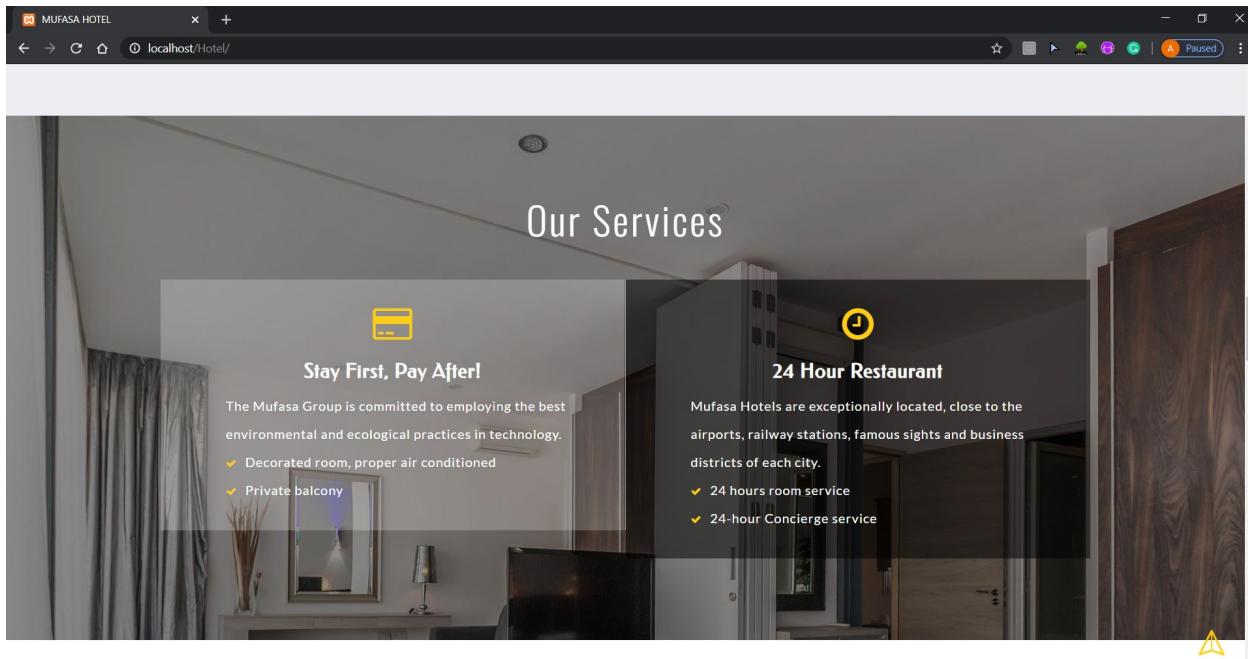
Facilities Provided



localhost/Hotel/index.php(middle section):

The various facilities and the services to be provided to the customer is mentioned in a very interactive manner using development tools. This will help visitors to easily catch the required facility for them and thus choose our hotel and enjoy the best facilities.

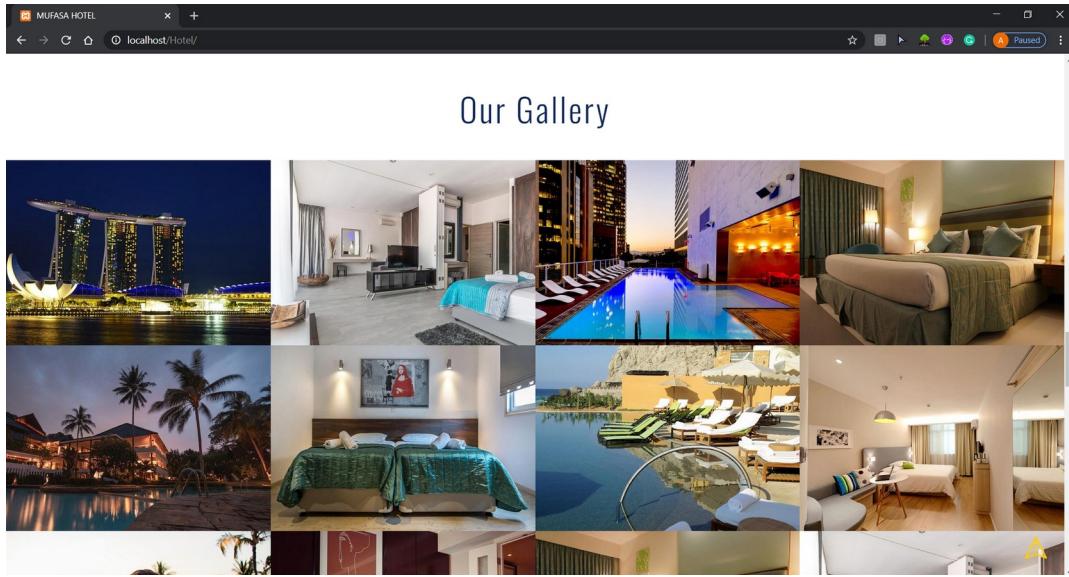
Services Provided



localhost/Hotel/index.php(middle section):

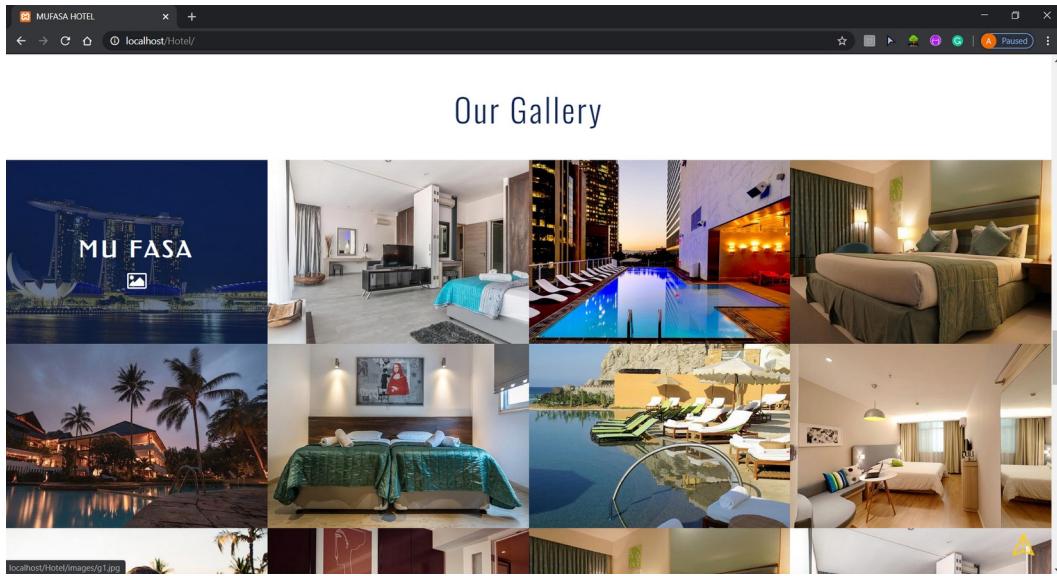
The Various eye-catching facilities and services provided by our hotel is displayed in this section in a tabular manner. This helps the user choose our hotel over any other for our brilliant hospitality.

Gallery



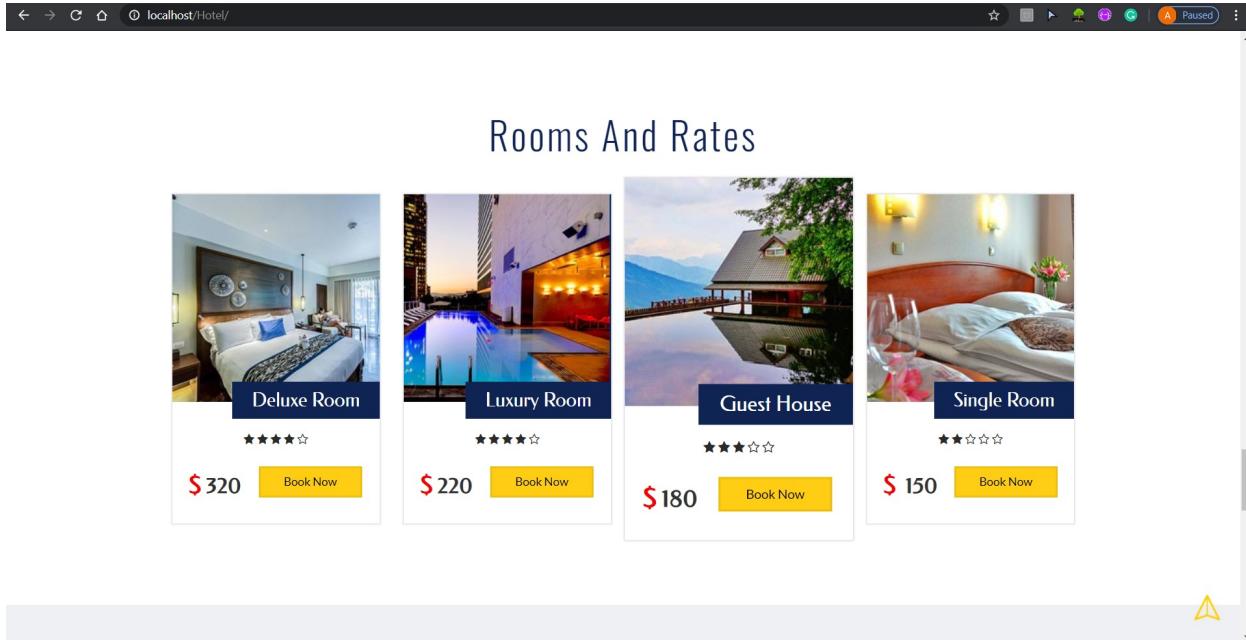
localhost/Hotel/index.php(middle section):

The site is provided with the photos of rooms to be served for the customer on their booking. The name of the Hotel shows up on hovering ass shown in the next pic below.



localhost/Hotel/index.php(middle section):

Rooms and Rates



localhost/Hotel/index.php(Rooms and Rates section):

This section will provide you with the different available rooms and facility you can opt for. Also this will redirect you to the booking page wherein you can select the desired service that you will need and also fix the duration you need to stay in the hotel. The above picture shows the 4 options for room accommodation and their prices.

Reviews of the Visitors

MUFASA HOTEL

localhost/Hotel/

What Other Visitors Experienced

★★★★★ WORTH TO COME AGAIN

I would definitely like to share my personal experience with you all. The hotel was really amazing. The suite in which I stayed for a week felt like paradise. Hotel staff was very kind and generous. The food was absolutely delicious. Just had a fantastic and a neverforgetting experience.

Pratik Barai
India

localhost/Hotel/index.php:

The visitors who have experienced the services provided by the Hotel have posted what they think about our Hotel and the dependencies. This is the best reference for the new users to be confident about the hospitality provided by us.

MUFASA HOTEL

localhost/Hotel/

What Other Visitors Experienced

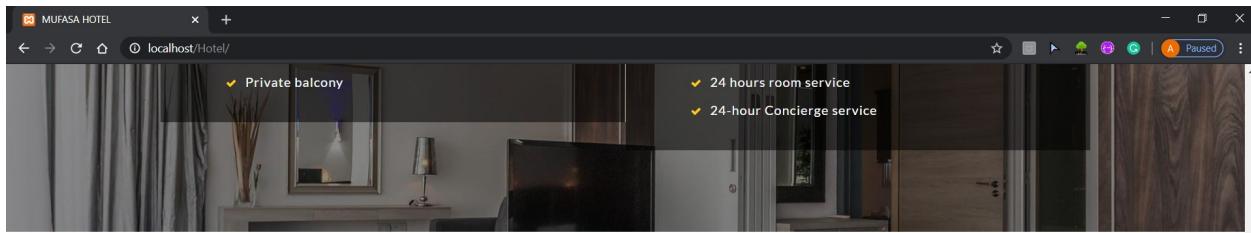
★★★★★ WORTH TO COME AGAIN AND AGAIN

Would really recommend this hotel to everyone because such hotels are very rare to find at such an affordable price unlike those which give you the feeling of your last trip.

Premsing Rathod
India

localhost/Hotel/index.php:

Meet Our Team:

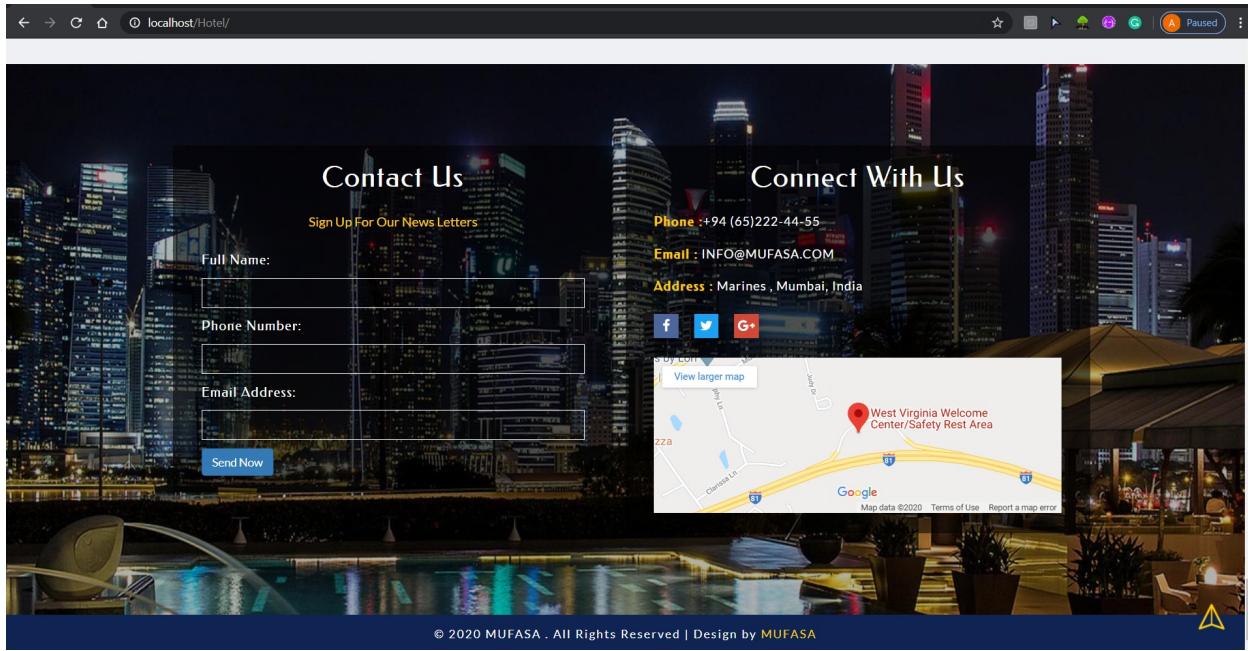


Meet Our Team



A small Introduction with our team members who have worked together to make this project possible.

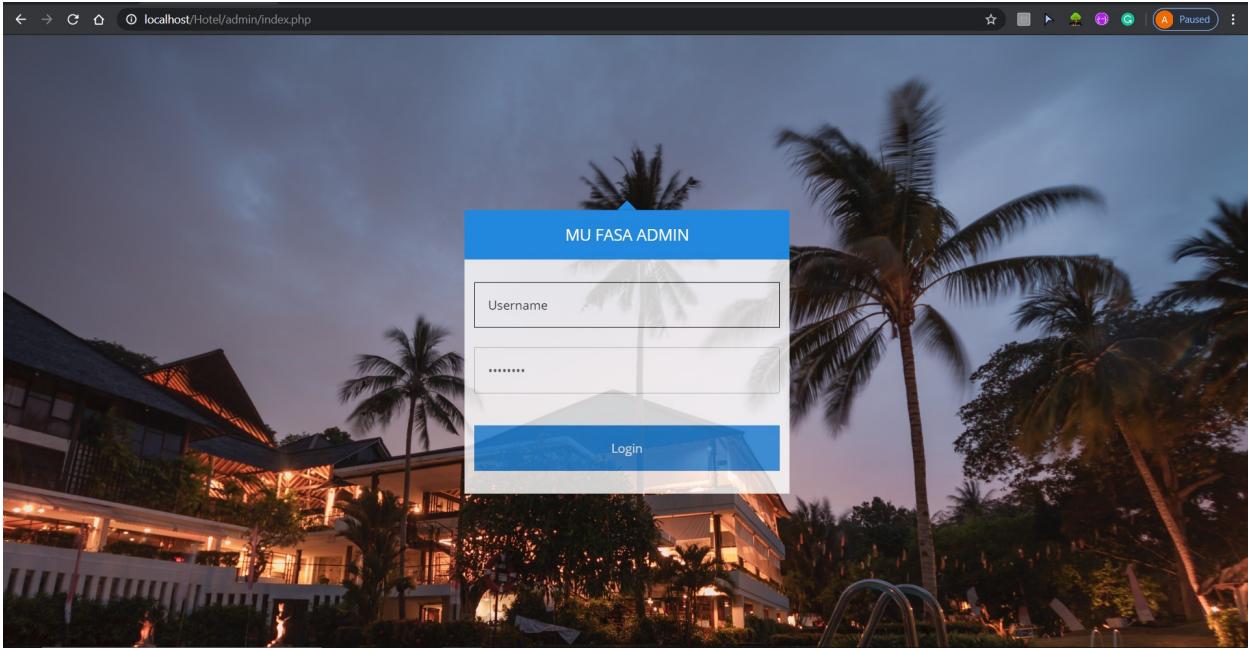
Bottom of the Homepage(Footer section)



localhost/Hotel/index.php(Bottom and Footer section):

The bottom of our Homepage is shown in the above image. With the copyrights at the footer section , it is also provided with two Contact Us sections.The left one corresponds to the NewsLetter Signup wherein you can opt for receiving mails from our organization and the right one provided with phone no. email address and Address for the additional enquiry in case the user needed.

Admin Login Page



localhost/Hotel/admin/index.php :

Before accessing the admin privileges , one has to login. Keeping the data of the users secure from the outsiders is our topmost priority so that malpractices using the users data is prevented. Admins are provided with their unique username and passcodes for accessing data for official purposes.

Admin Main Menu

The screenshot shows a web browser window with the URL `localhost/Hotel/admin/usersetting.php`. The title bar says "MAIN MENU". On the left, there's a sidebar with a "User Dashboard" link. The main content area is titled "ADMINISTRATOR accounts". It contains a table with two rows:

User ID	User name	Password	Update	Remove
1	Admin	1234	<button>Update</button>	<button>Delete</button>
3	Ajinkya	12345	<button>Update</button>	<button>Delete</button>

At the bottom left of the main content area is a blue button labeled "Add New Admin".

localhost/Hotel/admin/usersetting.php :

The ADMIN page provided is accessible by logging in in the database as the admins. The above section is used for granting the admin permissions by providing the username and the password. There is no such limit to the no. of admins but the access is granted by the admin itself. Thus by logging in as an admin, you can create multiple admin accounts.

Pending Room Request

The screenshot shows a web-based administrative dashboard for a hotel. The left sidebar has a dark theme with white text and icons. It includes links for Status, News Letters, Room Booking, Payment, Profit, and Logout. The main content area is titled "Status Room Booking". A sub-section titled "New Room Bookings" displays 10 entries in a table. Each entry includes a row number, name, email, country, room type, bedding, meal plan, check-in date, check-out date, status, and an "Action" button.

#	Name	Email	Country	Room	Bedding	Meal	Check In	Check Out	Status	Action
3	Piyush Itankar	pitankar14@gmail.com	Australia	Superior Room	Single	Full Board	2020-04-25	2020-04-26	Not Conform	Action
4	Ajinkya Hazare	ajinka642000@gmail.com	Australia	Superior Room	Double	Full Board	2020-04-26	2020-04-27	Not Conform	Action
5	Anant Hazare	test4@gmail.com	Armenia	Guest House	Double	Full Board	2020-04-24	2020-04-25	Not Conform	Action
6	Pratik Barai	pbarai@gmail.com	India	Superior Room	Double	Breakfast	2020-04-27	2020-04-30	Not Conform	Action
7	Prem Rathod	prempathod1aug@gmail.com	India	Deluxe Room	Triple	Room only	2020-04-28	2020-04-30	Not Conform	Action
8	Abhishek Kalshetti	akshetti@gmail.com	India	Guest House	Double	Room only	2020-04-29	2020-05-01	Not Conform	Action
9	Pratik Jain	pratik@gmail.com	India	Single Room	Single	Room	2020-04-	2020-04-	Not	Action

localhost/Hotel/admin/home.php

This shows the Room bookings status for all the applied rooms and services that the specific user had opted for. This section is provided with rights for actions on the following applications and thus this section is only accessed by the administrators.

At the bottom of the same page, it shows the no. of rooms booked as shown in the next screenshot.

The screenshot shows the same administrative dashboard. The left sidebar is identical. The main content area is titled "Status Room Booking". A sub-section titled "Booked Rooms" displays 0 entries. Below this, there is a light blue footer bar.

#	Name	Email	Country	Room	Bedding	Meal	Check In	Check Out	Status	Action
3	Piyush Itankar	pitankar14@gmail.com	Australia	Superior Room	Single	Full Board	2020-04-25	2020-04-26	Not Conform	Action
4	Ajinkya Hazare	ajinka642000@gmail.com	Australia	Superior Room	Double	Full Board	2020-04-26	2020-04-27	Not Conform	Action
5	Anant Hazare	test4@gmail.com	Armenia	Guest House	Double	Full Board	2020-04-24	2020-04-25	Not Conform	Action
6	Pratik Barai	pbarai@gmail.com	India	Superior Room	Double	Breakfast	2020-04-27	2020-04-30	Not Conform	Action
7	Prem Rathod	prempathod1aug@gmail.com	India	Deluxe Room	Triple	Room only	2020-04-28	2020-04-30	Not Conform	Action
8	Abhishek Kalshetti	akshetti@gmail.com	India	Guest House	Double	Room only	2020-04-29	2020-05-01	Not Conform	Action
9	Pratik Jain	pratik@gmail.com	India	Single Room	Single	Room only	2020-04-24	2020-04-26	Not Conform	Action
10	Hussain Saif	saif@gmail.com	India	Deluxe Room	Double	Breakfast	2020-04-24	2020-04-25	Not Conform	Action
11	Sanket Barhate	sanket@gmail.com	India	Single Room	Single	Room only	2020-04-27	2020-04-28	Not Conform	Action
12	Tanuj Pancholi	tanuj@gmail.com	India	Single Room	Quad	Breakfast	2020-04-24	2020-04-30	Not Conform	Action

Booked Rooms 0

Room Booking Section(Admin)

The screenshot shows a web application interface for room booking. On the left, a dark sidebar menu includes 'News Letters', 'Room Booking' (which is selected), 'Payment', 'Profit', and 'Logout'. The main content area has a header 'Room Booking 2020/04/24'. Below this is a 'Booking Conformation' table with the following data:

DESCRIPTION	INFORMATION
Name	Mr.Piyushlankar
Email	pitankar14@gmail.com
Nationality	Sri Lankan
Country	Australia
Phone No	9552047606
Type Of the Room	Superior Room
No Of the Room	1
Meal Plan	Full Board
Bedding	Single
Check-in Date	2020-04-25
Check-out Date	2020-04-26
No of days	1
Status Level	Not Conform

Below the table is a note 'Select the Conformation'. To the right, a 'Available Room Details' section shows the following room counts in blue circles:

- Superior Room: 4
- Guest House: 2
- Single Room: 4
- Deluxe Room: 4
- Total Rooms: 14

The bottom status bar shows the URL 'localhost/Hotel/admin/roombook.php'.

An Administrator can see the information that the customer has given to the database as a verification and thus can confirm the booking or can hold it pending. It also displays the availability of diff categories of rooms of the Hotel. Thus it makes it more clear for the admins to confirm booking.

Newsletter Section(Admin)

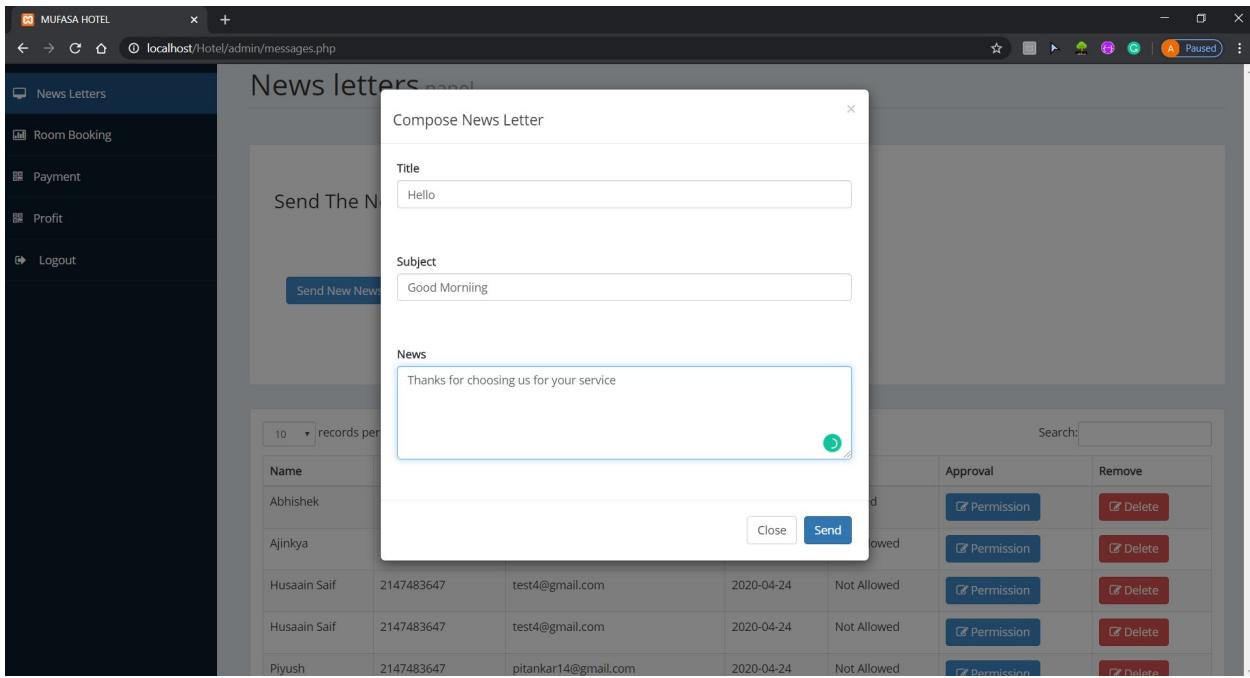
The screenshot shows a web browser window titled "MUFASA HOTEL" with the URL "localhost/Hotel/admin/messages.php". The page is titled "News letters panel". On the left, there is a sidebar with links: "News Letters" (which is active), "Room Booking", "Payment", "Profit", and "Logout". The main content area has a heading "Send The News Letters to Followers" and a blue button "Send New News Letters". Below this is a table with the following data:

Name	Phone Number	Email	Date	Status	Approval	Remove
Abhishek	0	akshetti@gmail.com	2020-04-24	Not Allowed	<input type="checkbox"/> Permission	<input type="checkbox"/> Delete
Ajinkya	2147483647	ajinkya642000@gmail.com	2020-04-22	Not Allowed	<input type="checkbox"/> Permission	<input type="checkbox"/> Delete
Husaain Saif	2147483647	test4@gmail.com	2020-04-24	Not Allowed	<input type="checkbox"/> Permission	<input type="checkbox"/> Delete
Husaain Saif	2147483647	test4@gmail.com	2020-04-24	Not Allowed	<input type="checkbox"/> Permission	<input type="checkbox"/> Delete
Piyush	2147483647	pitankar14@gmail.com	2020-04-24	Not Allowed	<input type="checkbox"/> Permission	<input type="checkbox"/> Delete

Below the table, the URL "localhost/Hotel/admin/message.php" is visible.

This section belongs to the newsletter signup on the left corner at the bottom section of the Homepage. The database shown above is the users databases that have opted for the newsletter. It also comes with the same access to the admins.

NewsLetter Pop-up



localhost/Hotel/admin/message.php

Thus admin can send the news letters to the users registered above and grow our community. It comes with simple news format and body. It can also be used to alert the customer about certain updates.

Booking Details and Room Availability

The screenshot shows a web application titled "Room Booking" dated 2020/04/24. On the left is a sidebar with menu items: News Letters, Room Booking (selected), Payment, Profit, and Logout. The main content area has two sections: "Booking Conformation" and "Available Room Details".

Booking Conformation:

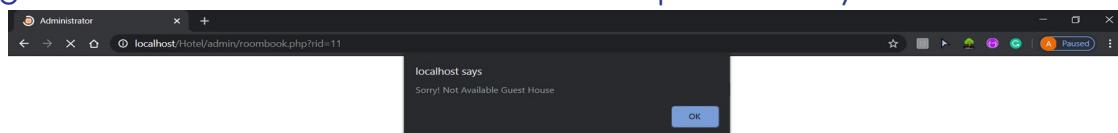
DESCRIPTION	INFORMATION
Name	Mr.PratikJain
Email	pratik@gmail.com
Nationality	Sri Lankan
Country	India
Phone No	8343434334
Type Of the Room	Single Room
No Of the Room	1
Meal Plan	Room only
Bedding	Single
Check-in Date	2020-04-24
Check-out Date	2020-04-26
No of days	2
Status Level	Not Conform

Available Room Details:

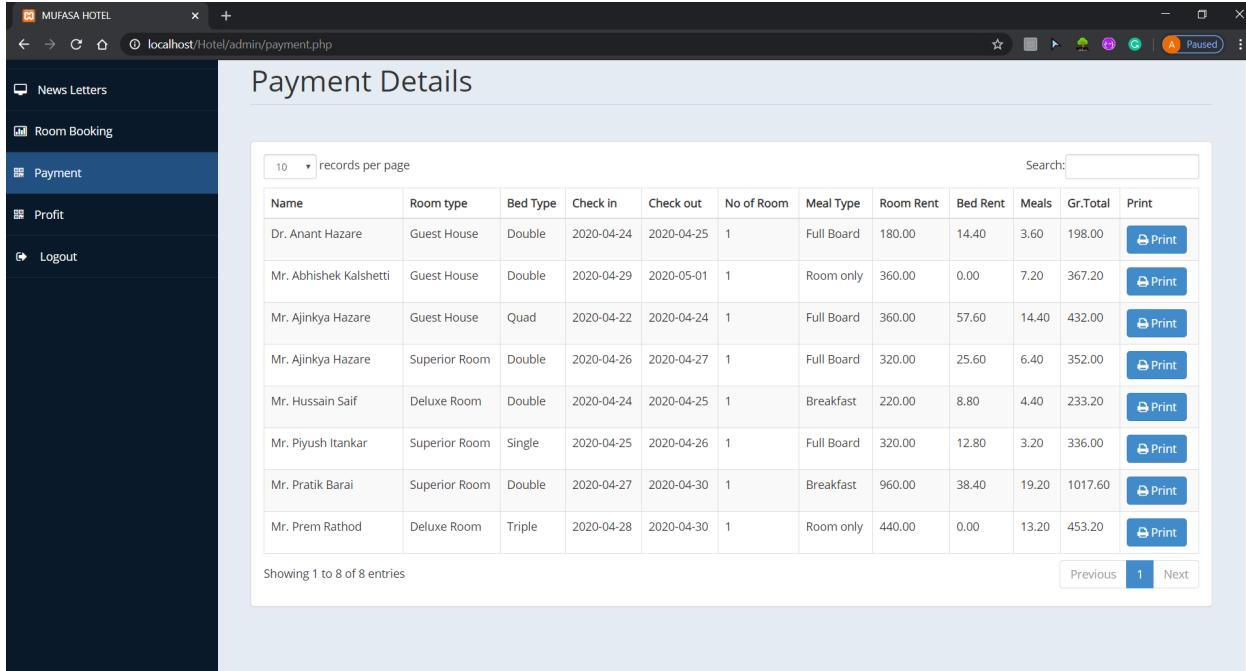
Superior Room	1
Guest House	NO
Single Room	4
Deluxe Room	2
Total Rooms	7

localhost/Hotel/admin/message.php

In the above database, we can see that the no. of guest rooms available are zero thus booking a guest room thereafter may cause error .But in the next pic we try to book a guest room and the website throws an alert that guestrooms are not available and thus prevent any error or overflow.



Payment Section(With Profit)



Name	Room type	Bed Type	Check in	Check out	No of Room	Meal Type	Room Rent	Bed Rent	Meals	Gr.Total	Print
Dr. Anant Hazare	Guest House	Double	2020-04-24	2020-04-25	1	Full Board	180.00	14.40	3.60	198.00	
Mr. Abhishek Kalshetti	Guest House	Double	2020-04-29	2020-05-01	1	Room only	360.00	0.00	7.20	367.20	
Mr. Ajinkya Hazare	Guest House	Quad	2020-04-22	2020-04-24	1	Full Board	360.00	57.60	14.40	432.00	
Mr. Ajinkya Hazare	Superior Room	Double	2020-04-26	2020-04-27	1	Full Board	320.00	25.60	6.40	352.00	
Mr. Hussain Saif	Deluxe Room	Double	2020-04-24	2020-04-25	1	Breakfast	220.00	8.80	4.40	233.20	
Mr. Piyush Itankar	Superior Room	Single	2020-04-25	2020-04-26	1	Full Board	320.00	12.80	3.20	336.00	
Mr. Pratik Barai	Superior Room	Double	2020-04-27	2020-04-30	1	Breakfast	960.00	38.40	19.20	1017.60	
Mr. Prem Rathod	Deluxe Room	Triple	2020-04-28	2020-04-30	1	Room only	440.00	0.00	13.20	453.20	

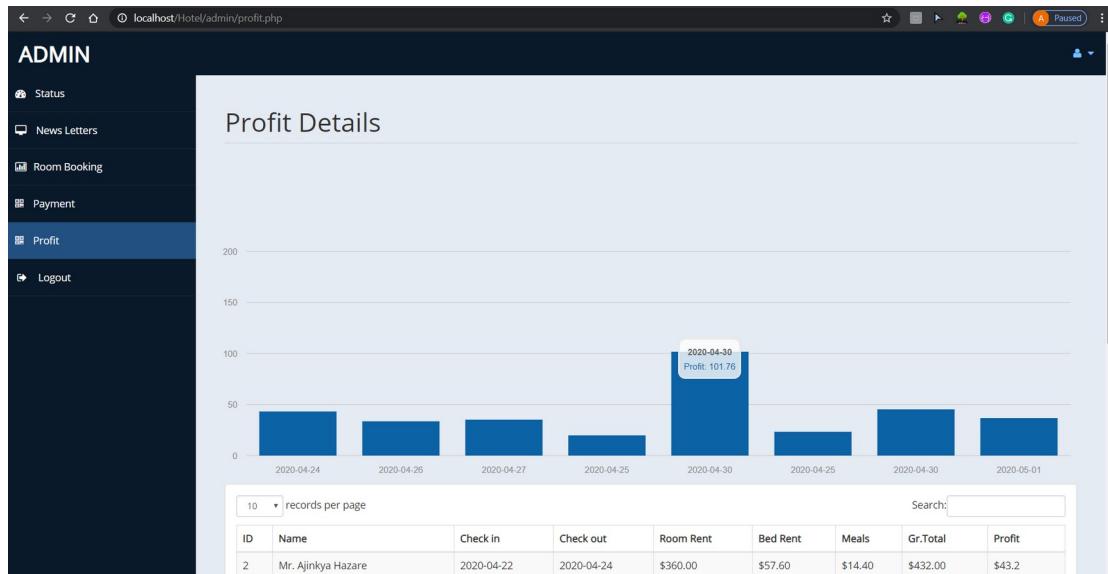
Showing 1 to 8 of 8 entries

Previous 1 Next

localhost/Hotel/admin/payment.php

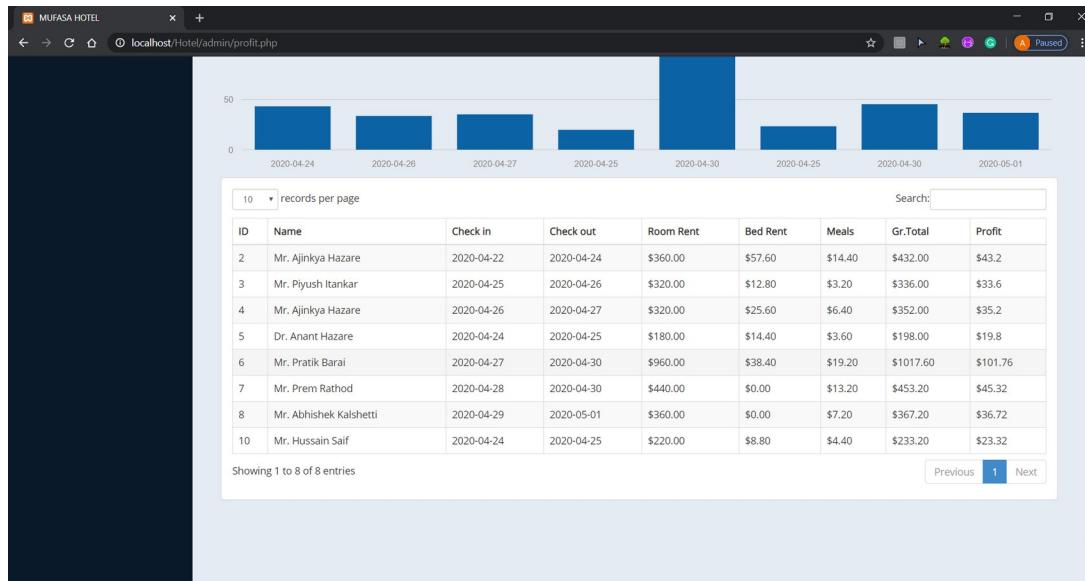
As per the services opted by the customers , the bill will be generated by adding the costs and giving a grand total for every individual . Thus Payment sections give us an idea of the revenue that will be generated by the booked rooms.All the service cost is individually mentioned here to avoid any anomaly.

Profit Details



localhost/Hotel/admin/profit.php

This is one of those unique features that makes our website different from other contemporary websites available in the market. Here, we can see the bar graph of the profit v/s time period which shows the rise of the popularity of our hotel by simply comparing the profit for different time periods. This is a great feature which will help us analyse the performance of our hotel at every scale.



Room Booking Status

localhost/Admin/home.php

The STATUS section shown above gives the formatted idea of the booked rooms with the names of the customers and the categories of the rooms selected. the SHOW link will direct you to the booking page to seek more info about the customers. The followers section in the bottom shows the data of users that had opted for the newsletter.

Room Allocation

The screenshot shows a web-based administrative interface for room allocation. On the left, a sidebar titled 'MAIN MENU' includes options for 'Room Status', 'Add Room', and 'Delete Room'. The main content area is titled 'Available Rooms' and displays a grid of room categories. Each category is represented by a colored icon (Single, Double, Triple, Quad) and a sub-category name (Superior Room, Deluxe Room, Guest House). The grid is organized into three rows:

- Row 1:** Single (Superior Room), Double (Superior Room), Triple (Superior Room), Quad (Single Room)
- Row 2:** Quad (Superior Room), Single (Deluxe Room), Double (Deluxe Room), Triple (Deluxe Room)
- Row 3:** Quad (Deluxe Room), Single (Guest House), Double (Guest House), Quad (Guest House)

localhost/Hotel/admin/setting.php :

Available rooms with their categories are shown in the above tab to the Administrator. This will let you know about the availability and shortage of specific rooms and categories at times. Such analysis is the base for productive changes. This is a good move to take a note of availability of rooms at diff time of the year to maximise the profit during the peak holidays.

Deleting the Room

The screenshot shows a web-based administration interface for a hotel room management system. On the left, a sidebar titled 'MAIN MENU' includes options for 'Room Status', 'Add Room', and 'Delete Room'. The main area is titled 'DELETE ROOM' and contains a form with a dropdown menu labeled 'Select the Room ID *' containing the value '4'. Below this is a 'Delete Room' button. The main content area displays a grid of room categories: Single, Double, Quad, and Triple. Each category has two sub-options: Superior Room (in blue box) and Deluxe Room (in green box). The 'Quad' category under 'Single' is highlighted in red.

localhost/Hotel/admin/roomdel.php

Admins are also provided with the ease of deleting an existing room and adding the room to the database without affecting it or altering to a large scale. This makes it easy to manage rooms , adding new ones , removing the rooms that are under construction and adding them again after they are ready for accomodation. This makes the management smooth and effective.

Invoice Section

The screenshot shows a web application interface for a hotel booking system. At the top, there's a header bar with the title "INFORMATION OF GUEST". Below this, the MU FASA logo is prominently displayed, featuring a stylized lotus flower above the text "MU FASA" and "CHAIN OF HOTELS AND RESORT". To the left of the logo, there's some contact information: "MU FASA HOTEL, Marines, Mumbai, India. (+91) 65 222 44 55".

Customer Information:

- Customer Name:** Mr.Ajinkya Hazare
- Customer ID:** 4
- Check in Date:** 2020-04-26
- Check out Date:** 2020-04-27

Customer Details:

Customer phone : - 9552047606	Customer email : - ajinkya642000@gmail.com
Customer Country : - Australia	Customer National : - Sri Lankan

Room Bookings:

Item	No of Days
Superior Room	1
Double Bed	1
Full Board	1

localhost/Hotel/admin/show.php

Remember the Grand total section , users can also get the invoice of the hotel bill even before hand and also after checking out from the hotel room.The invoice specifies the services provided to the customer in detail with the check in and check out date specified. This invoice can be helpful to officials at times..

Features that make our website different from other contemporary websites that are existing in the market:-

1. To be able to give better responses to queries of a Visitor we have added a NewsLetter Functionality at the admin end.Once the person is approved for the NewsLetter he/she will receive regular updates and New Upcomings at hotel Mufasa.
- 2.We will try to provide the Administration with some statistics to their booking so that they can analyse the data that customers are mostly interested in.

3. We will provide a feature through which the administration will be able to see their profits plotted in a graphical manner which can be used for further deductions of total profits.

4. Our Website will provide every fine detail of a visitor which will enable the administration to improve their marketing for the HOTEL MUFASA.

FUTURE SCOPE:

1. Keeping in mind the complexity and flow of the implemented database, we can apply the following schema for organised bookings in Hotel, Airlines, Trains etc.
2. The project implementation of the database can be extended in various sectors for example in the education sector, the idea is to implement this complexity of database in conduction of online examinations and to generate instant results.
3. Also our database gives useful feedback data and thus can be used to improve the services provided by a firm.
4. Also the data is capable of providing fine profit statistics and thus a firm can clearly see what aspects to include in their marketing strategies.
5. We focus on creating an all in one travel/hotel website which will enable a user to book a travel ticket/hotel booking but also by implementing machine learning we can use the data stored by our database to suggest best tour and travel packages.

CONCLUSION:

The Online Hotel Reservation System was developed to replace the manual process of booking for a hotel room or any other facility of the hotel. The old system does not serve the customer in a better way; rather it makes customer data vulnerable. The new system keeps proper records of customers for emergency and security purposes. The hotel's advertising effort is now accompanied by a virtual tour created on the system.

Hotel needs to maintain the record of guests and reserve rooms beforehand. Customers should be able to know the availability of the rooms on a particular date. They should be able to reserve the available rooms according to their need in advance so as to make their stay comfortable. No hotel reservation system can operate alone in the hotel, because it concentrates mainly in the reservation process, the system

needs an accounting system and a management information system, and so it can serve all the needs of the hotel.

It is therefore very important to build new and modern flexible dynamic effective compatible reusable information systems including databases to help manipulate different processes and operations that are carried out in hotels.

Therefore we implemented a Hotel Reservation System with a higher complexity of Database with tools like HTML,CSS,JavaScript,PHP and Mysql.

This project is designed to meet the requirements of Online Hotel Management. It has been developed in Visual Basic keeping in mind the specifications of the system.

For designing the system we have used simple data flow diagrams. Overall the project teaches us the essential skills like:

- Using system analysis and design techniques like data flow diagrams in designing the system.
- Understanding the database handling and query processing.