

MINI PROJECT
(2020-21)
“HOTEM MANAGEMENT WEBSITE ”
Project Report



Institute of Engineering & Technology

Submitted By -

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Under the Supervision Of

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GLA University, 17 km. Stone NH#2, Mathura-Delhi Road,
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Declaration

I/we hereby declare that the work which is being presented in the Bachelor of technology. Project “**Hotel Management Website**”, in partial fulfillment of the requirements for the award of the *Bachelor of Technology* in Computer Science and Engineering and submitted to the Department of Computer Engineering and Applications of GLA University, Mathura, is an authentic record of my/our own work carried under the supervision of “**Mrs Ruchi Gupta**” Technical Trainer, Dept. of CEA, GLA University.

The contents of this project report, in full or in parts, have not been submitted to any other Institute or University for the award of any degree.

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Certificate

This is to certify that the project entitled “Hotel Management Website ”, carried out in Mini Project – I Lab, is a bonafide work by Naman Sharma, Rohit Kumar, Ayush Parashar , Sushant Gautam and is submitted in partial fulfillment of the requirements for the award of the degree Bachelor of Technology (Computer Science & Engineering).

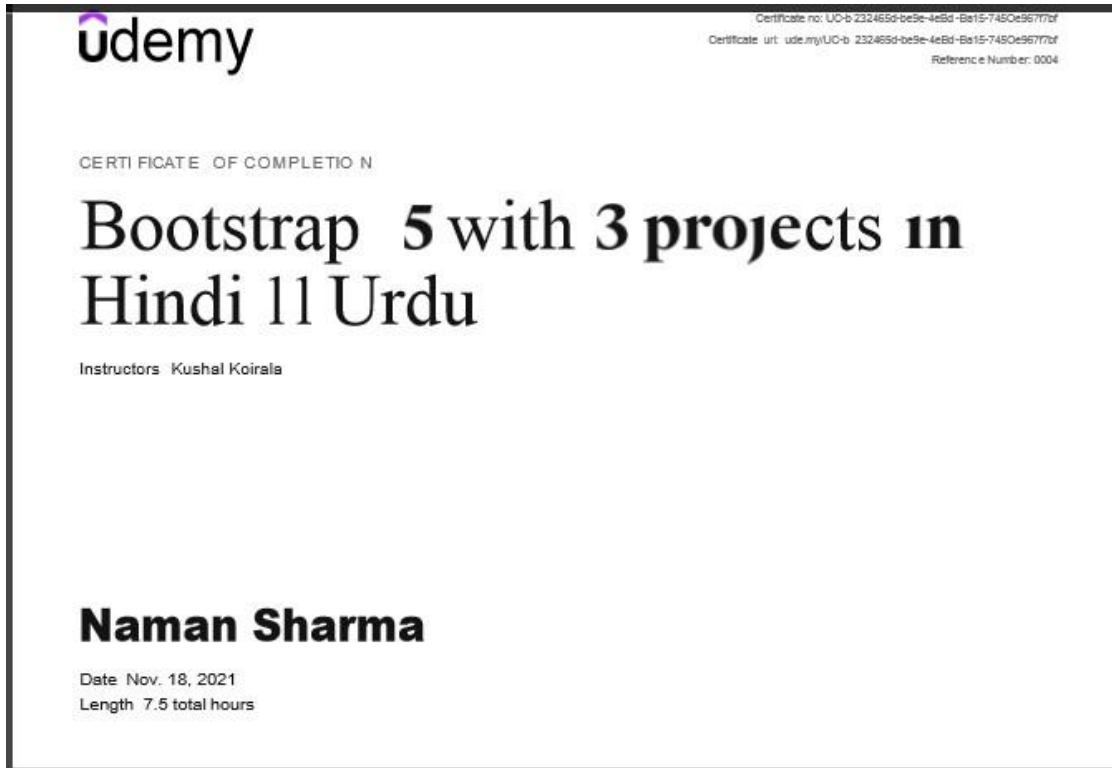
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Date:

Training Certificates

Naman Sharma



Rohit Kumar



AYUSH PARASHAR



Certificate no: UC-b 232465d-be8e-4e8d-Ba15-7450e96775f
Certificate url: ude.my/UC-b 232465d-be8e-4e8d-65d65d
Reference Number: 00ee

CERTIFICATE OF COMPLETION

Bootstrap 5 with 3 projects in Hindi 11 Urdu

Instructors: Kushal Koirala

Ayush Parashar

Date: Nov 10, 2021
Length: 7.5 total hours

SUSHANT GAUTAM





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ACKNOWLEDGEMENT

Presenting the ascribed project paper report in this very simple and official form, we would like to place my deep gratitude to GLA University for providing us the instructor Mrs Ruchi Gupta, our technical trainer and supervisor.

He has been helping us since Day 1 in this project. She provided us with the roadmap, the basic guidelines explaining on how to work on the project. He has been conducting regular meeting to check the progress of the project and providing us with the resources related to the project. Without his help, we wouldn't have been able to complete this project.

And at last but not the least we would like to thank our dear parents for helping us to grab this opportunity to get trained and also my colleagues who helped me find resources during the training.

Thanking You

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Table of Contents

Contents

Table of Contents	2
1. Abstract	6
2. Introduction	7
3. Definitions and Acronyms	8
4. Proposed System	8
5. FEASIBILITY REPORT	9
PROBLEM IN THE CURRENT SYSTEM	9
6. TECHNICAL FEASIBILITY:	10
7. Technical Description	11
8. GRAPHICAL USER INTERFACE.....	12
9. Project Design Description	13
Purpose	13

Scope	13
10. Functional Requirements	14
11. Performance Requirements.....	15
12. Scope of The Development Project.....	16
Database Tier	16
User Tier.....	16
Data Base Connectivity Tier.....	16
13. Software Requirement Specification.....	17
Required Software	17
14. Modules Description	18
ACCOMMODATION INFORMATION	18
UNITS INFORMATION:.....	18
BOOKING MODULE	18
GUEST MODULE	18
FACILITIES MODULE.....	Error! Bookmark not defined.
15. NUMBER OF VIEWS	19
Administrative View	19
Guest View	19
16. Performance Requirements.....	20
17. Front end or User Interface Design	20

18.	Eclipse IDE.....	Error! Bookmark not defined.
	Architecture	Error! Bookmark not defined.
19.	Data Flow Diagrams	21
	WEB BASED.....	21
	UPHOLDINGSYSTEM.....	21
20.	ER-Diagrams.....	Error! Bookmark not defined.
21.	Unified Modeling Language Diagrams	22
22.	SEQUENCE DIAGRAMS.....	23
23.	Testing	24
24.	Installation and project description	Error! Bookmark not defined.
25.	Conclusions And Recommendations	Error! Bookmark not defined.
26.	Acknowledgements	Error! Bookmark not defined.
27.	References	Error! Bookmark not defined.

LIST OF FIGURES

1. Existing System	2
2. Use Case Diagram	9
3. Data Flow Diagram.....	11
4. Sequence Diagram.....	12
5. Flow Chart for User	21
6. Splash Screen.....	23
7. Register Page	23
8. Login Page	24
9. Forget Password	24
10. Navigation Drawer.....	25
11. Dashboard Fragment.....	26
12. Profile Page	27
13. Favourite Page	28
14. Sign-out Page.....	28

1. Abstract

The system aims at the maintenance and management of the Hotels that are available in the different parts of the world. It mainly takes care of the Hotel management at the core area of the database. The system provides the information regarding the different Hotels that are available and their status specific to availability. The guests can visit the site and register themselves with the required information that is mentioned by the system. Each registered guest can book accordingly .

The Guests are scheduled with the information of the availability of the units for they have requested the time. The total front end was dominated using HTML standards applied with the dynamism of PHP My admin as back end to store data . The communicating client was designed .At all proper levels high care was taken to check that the system manages the date consistency with proper business validations.

The database connectivity was planned using the php Myadmin, the authorization and authorization was cross checked at all stages.

2 Introduction

The entire project has been developed keeping in view of the Distributed client server computing technology in mind. The specification have been normalized upto 3NF to eliminate all the anomalies that may arise due to the database transactions that are executed by the actual administration and users. The user interfaces are browser specific to give distributed accessibility for the overall system. The internal database has been selected as Oracle 11g. The basic constructs of the tablespaces, clusters and indexes have been exploited to provide higher consistency and reliability for the data storage.

The oracle 11g was a choice as it provides the constructs of high level reliability and security. The total front end was dominated using HTML standards applied with the dynamism of JAVA server pages. The communication client was designed using servlets. At all proper levels high care was taken to check that the system manages the data consistency with proper business validations. The database connectivity was planned using the Java DataBase Connectivity, the authorization and authorization was cross checked at all stages. The user level accessibility has been restricted into two zones the administrative and the normal user zone.

3 Definitions and Acronyms.

HTTP- Hypertext transfer Protocol HTML-

Hypertext Markup LanguageFR – Functional

Requirement

NFR –Nonfunctional requirementGUI –

Graphical user interface

OSGI- Open Services Gateway initiative.

.

4 Proposed System:

The Automated system with distributed architecture can support issues like.

- 1) The system maintains the different location that are available and registered in a central DB, which leads easy accessibility and consistency.
- 2) Each Accommodation available units and all the unit facilities are also available at the click of a mouse.
- 3) The registration of new guest is online house new guest can make them they convenient for registration process on the basic of 24x7x326days.
- 4) The Units can be booked by the Registered guest irrespective of the Geographical barriers.
- 5) The Guest are provided with up to minute information related to the unit availability and their status. From their convenient place.
- 6) The decision process is more faster and more consistent.
- 7) The guest have information at their demand related to any unit status of their own unit booking status.

5 FEASIBILITY REPORT

GENERAL REQUIREMENTS FEASIBILITY REPORT:

- The new system should be cost effective
- To improve productivity and service and service.
- To enhance user interface.
- To improve information presentation and durability.
- To upgrade systems reliability, availability and flexibility.
- To address human factors for better and uses acceptance.

PROBLEM IN THE CURRENT SYSTEM:

The present system is presently is an undeveloped form and the manual process of the overall system is too clumsy and complicated. The clients in the real time consultancy system can be too thick and may need many resources to be used upon the system. If the system is developed, in a distributed over interface with centralized database is the only solution.

6 TECHNICAL FEASIBILITY

Evaluating the technical feasibility is the trickiest part of a feasibility study. This is because, at this point in time, not too many detailed design of the system, making it difficult to access issues like performance, costs on (on account of the kind of technology to be deployed) etc. A number of issues have to be considered while doing a technical

Analysis :

- Understand the different technologies involved in the proposed system .
- Before commencing the project, we have to be very clear about what are the technologies that are to be required for the development of the new system.
- Find out whether the organization currently possesses the required technologies

7 Technical Description

The total number of databases that were identified to build the system is 10. The major part of the Databases is categorized as Administrative components and the user components.

The administrative components are useful in managing the actual master data that may be necessary to maintain the consistency of the system. The administrative databases are purely used for the internal organizational needs and necessities.

The user components are designed to handle the transactional state that arise upon the system whenever the general client makes a visit onto the system for the sake of the report based information

8 GRAPHICAL USER INTERFACE

For the flexibility of the user, the interface has been developed in graphical user interface mode. The normal interface is applied through browser.

The GUI's at the top level has been categorized as:

- 1) Administrative user interface
- 2) Customer or general user interface

The administrative user interface concentrates on the consistent information that is practically, part of the organizational activities and which needs proper authentication for the data collection. The interfaces help the visitors with all the transactional states like Data insertion, Data deletion and Data updating with the data search capabilities.

The general user interface helps the users upon the system in transactions through the required services that are provided upon the system. The general user interface also helps the ordinary user is

9 Project Design Description

Purpose:

The main purpose for preparing this document is to give a general insight into the analysis and requirements of the existing system or situation and for determining the operating characteristics of the system.

Scope:

This Document plays a vital role in the development life cycle (SDLC) As it describes the complete requirement of the system. It is meant for use by the developers and will be the basic during testing phase. Any changes made to the requirements in the future will have to go through formal change approval process.

10 Functional Requirements:

Inputs:

The major inputs for Integration of Web based Accommodation Upholding Maintenance System can be categorized module -wise.

Basically all the information is managed by the software and in order to access the information one has to produce one's identity by entering the user-id and password.

Every user has their own domain of access beyond which the access is dynamically refrained rather denied.

Output:

The major outputs of the system are tables and reports. Tables are created dynamically to meet the requirements on demand.

Reports, as it is obvious, carry the gist of the whole information that flows across the institution. This application must be able to produce output at different modules for different inputs.

11 Performance Requirements:

Performance is measured in terms of reports generated weekly and monthly. Intended

Audience and Reading Suggestions

The document is prepared keeping in view of the academic constructs of my Bachelors Degree / Masters Degree from university as partial fulfillment of my academic purpose the document specifies the general procedure that has been followed by me, while the system was studied and developed. The general document was provided by the industry as a reference guide to understand my responsibilities in developing the system, with respect to the requirements that have been pin pointed to get the exact structure of the system as stated by the actual client.

The system as stated by my project leader the actual standards of the specification were desired by conducting a series of interviews and questionnaires.

The collected information was organized to form the specification document and then was modeled to suite the standards of the system as intended

12 Scope of The Development Project:

Database Tier:

The concentration is applied by adopting the Oracle 9i Enterprise versions. SQL is taken as the standard query language. The overall business rules are designed by using the power of PL/SQL components like stored procedures stored functions and database triggers.

User Tier:

The use interface is developed is a browses specific environment to have distributed architecture. The components are designed using HTML standards and Java server pages power the dynamic of the page design.

Data Base Connectivity Tier:

The communication architecture is designed by concentrated on the standards of servlets and JSP's. The database connectivity is established using the Java Database connectivity.

13 Software Requirement Specification

a. Required Hardware

- i. Pentium IV Processor.
- ii. 512 MB RAM.
- iii. 20 GB Hard Disk space.
- iv. Ethernet card with an Internet and Internet zone.

b. Required Software

- i. Windows 8 operating system.
- ii. Internet explorer11 and Netscape navigator.
- iii. Oracle 11g.
- iv. Servlets
- v. JSP
- vi. TCP/IP Protocol suite.

14 Modules Description

Number of Modules:

- Accommodation Information Module
- Units Information Module.
- Bookings Information Module.
- Guests Information Module.
- Facilities Information Module.

a. ACCOMMODATION INFORMATION:

This module maintains all the details of the Accommodation location that are available and the units that are available under each location along with their reference unit types.

b. UNITS INFORMATION:

This module maintains the information regarding all the units that are registered as per specifications and their reference unit types. The module also takes care of the system from the unit facilities and reference unit facilities that are available.

c. BOOKING MODULE:

This module maintains the information of all the booking of the units, as per the guest requirements, it searches itself with the units station database and the specific registered guest who have raised the demand upon the booking.

d. GUEST MODULE:

This module maintains the overall activities through which a guest is uniquely registered in the domain the module interpreter with the specific gender status and also centrally sets with interpretation through booking and registry to unit status

15 NUMBER OF VIEWS:

- Administrative View
- Guest View

a. Administrative View

This view is designed for interacting with the absolute Meta Data, which becomes the ultimate repository to maintain the consistency.

This view is accessible only to registered administrators who are recognized by the Watershed Development central Administration Department.

This Module takes care of the responsibility of the major Table management for

- Data Insertion
- Data Deletion
- Data Updating
- Data Selection

All the activities are validated and authenticated to proper profile to avoid un authorized

b. Guest View

In this view the guest can view complete details of available accommodation list information.

16 Performance Requirements:

Performance is measured in terms of reports generated weekly and monthly. Intended

Audience And Reading Suggestions

The document is prepared keeping in view of the academic constructs of my Bachelors Degree / Masters Degree from university as partial fulfillment of my academic purpose the document specifies the general procedure that has been followed by me, while the system was studied and developed. The general document was provided by the industry as a reference guide to understand my responsibilities in developing the system, with respect to the requirements that have been pin pointed to get the exact structure of the system as stated by the actual client.

The system as stated by my project leader the actual standards of the specification were desired by conducting a series of interviews and questionnaires. The collected information was organized to form the specification document and then was modeled to suite the standards of the system as intended.

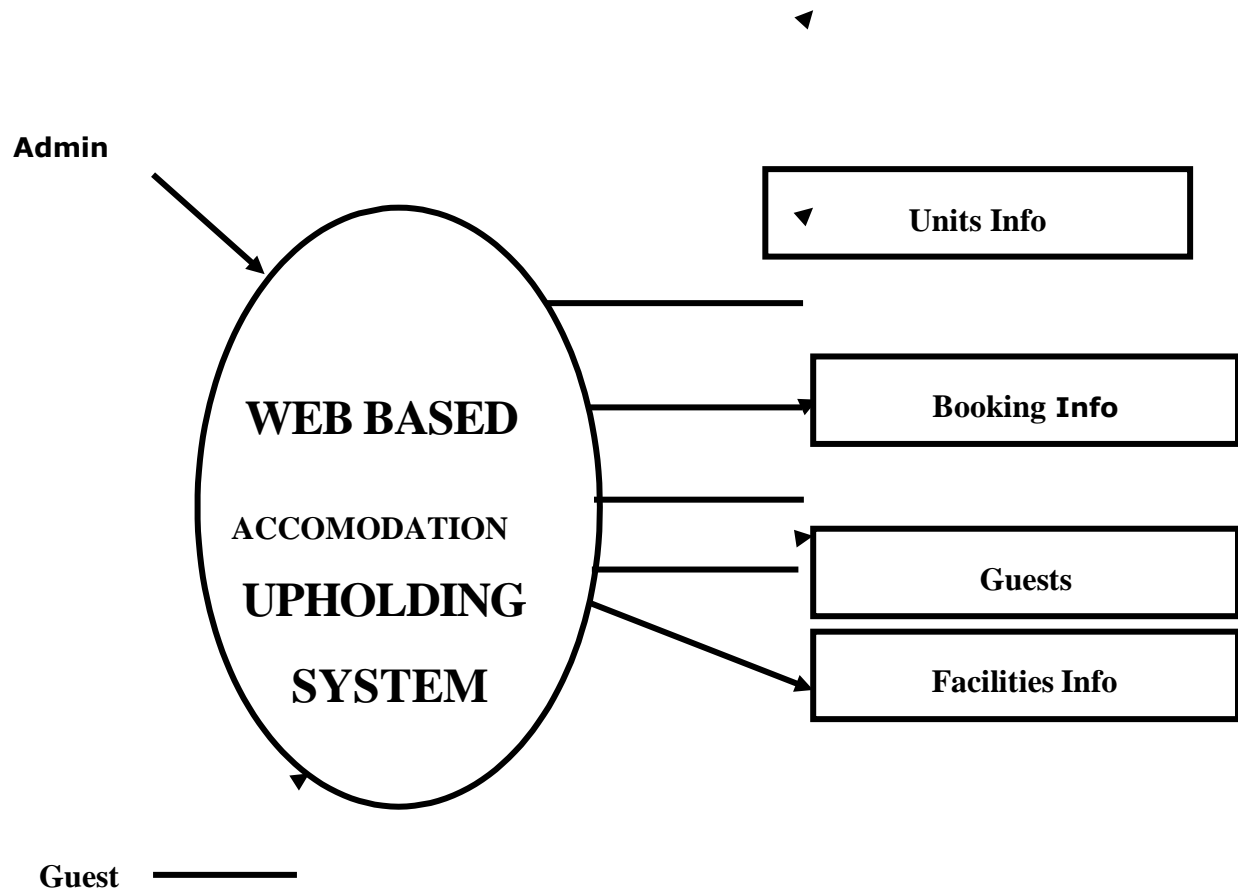
17 Front end or User Interface Design

The entire user interface is planned to be developed in browser specific environment with a touch of Intranet-Based Architecture for achieving the Distributed Concept.

The browser specific components are designed by using the HTML standards, and the dynamism of the designed by concentrating on the constructs of the Java Server Pages.

18 Data Flow Diagrams

- This Diagram server two purpose.
 - Provides an indication of how date is transformed as it moves through the system.
- Disputes the functions and sub functions that transforms the dataflow



19 Unified Modeling Language Diagrams

The unified modeling language allows the software engineer to express an analysis model using the modeling notation that is governed by a set of syntactic semantic and pragmatic rules.

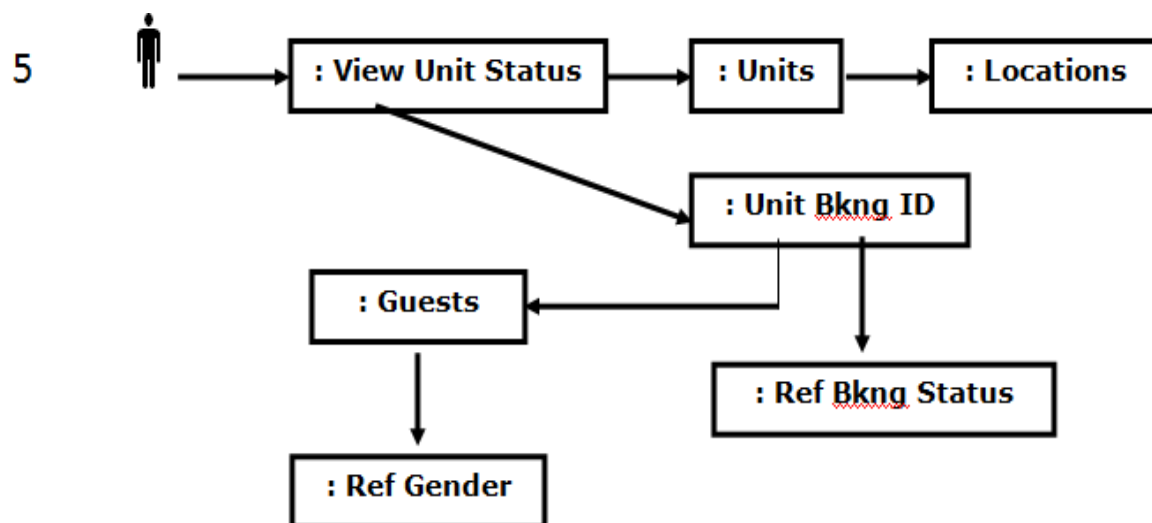
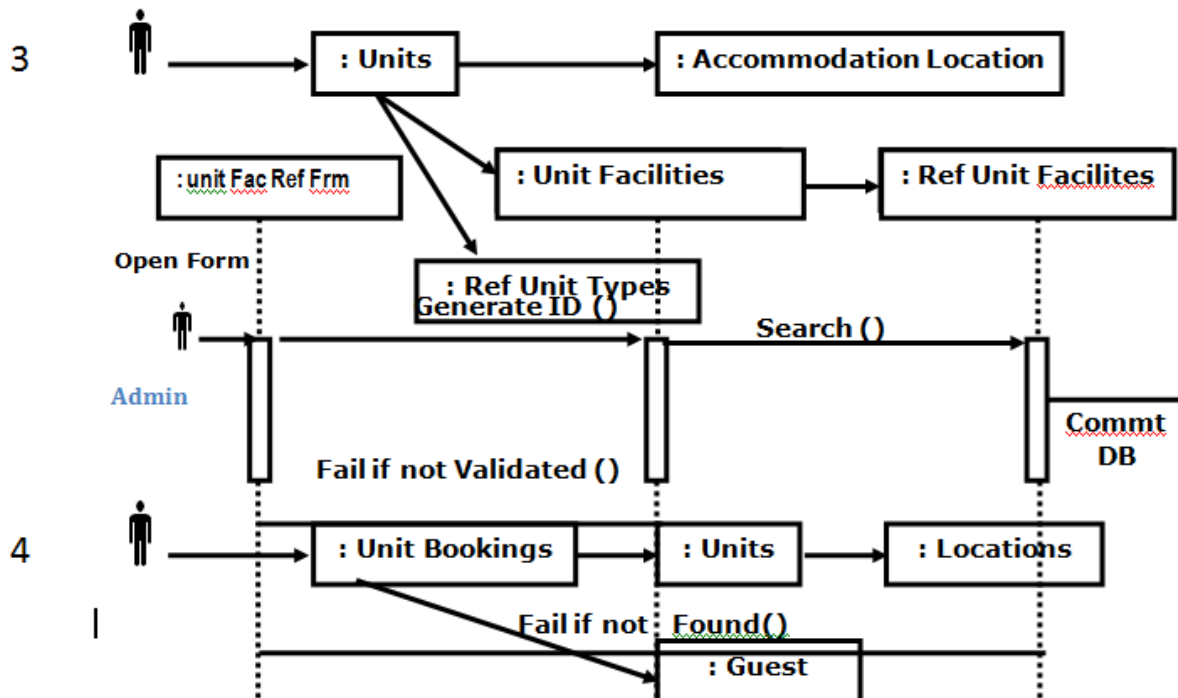
A UML system is represented using five different views that describe the system from distinctly different perspective. Each view is defined by a set of diagram, which is as follows.

- User Model View :
 - a. This view represents the system from the users perspective.
 - b. The analysis representation describes a usage scenario from the end-users perspective.
- Structural model view :
 - a. In this model the data and functionality are arrived from inside the system.
 - b. This model view models the static structures.
- Behavioral Model View :
 - a. It represents the dynamic of behavioral as parts of the system, depicting the interactions of collection between various structural elements described in the user model and structural model view.
- Implementation Model View :
 - a. In this the structural and behavioral as parts of the system are represented as they are to be built.
- Environmental Model View :

In this the structural and behavioral aspects of the environment in which the system is to be implemented are represented.

20 SEQUENCE DIAGRAMS

22. SEQUENCE DIAGRAMS



21 Testing

Testing is the process of detecting errors. Testing performs a very critical role for quality assurance and for ensuring the reliability of software. The results of testing are used later on during maintenance also.

Psychology of Testing :

The aim of testing is often to demonstrate that a program works by showing that it has no errors. The basic purpose of testing phase is to detect the errors that may be present in the program. Hence one should not start testing with the intent of showing that a program works, but the intent should be to show that a program doesn't work. Testing is the process of executing a program with the intent of finding errors.

Testing Objectives:

The main objective of testing is to uncover a host of errors, systematically and with minimum effort and time. Stating formally, we can say

- Testing is a process of executing a program with the intent of finding an error.
- A successful test is one that uncovers an as yet undiscovered error.
- A good test case is one that has a high probability of finding error, if it exists.
- The tests are inadequate to detect possibly present errors.
- The software more or less confirms to the quality and reliable standards.

Firewall Authentication Keepalive x localhost/marimar/admin/index.php x Aron's x +

← → ↻ ⓘ http://localhost/marimar/index.php

Apps ▾ How to Become a... Reading list

Login

ARON's HOTEL

f t i

Home About us Rooms Contact Gallery

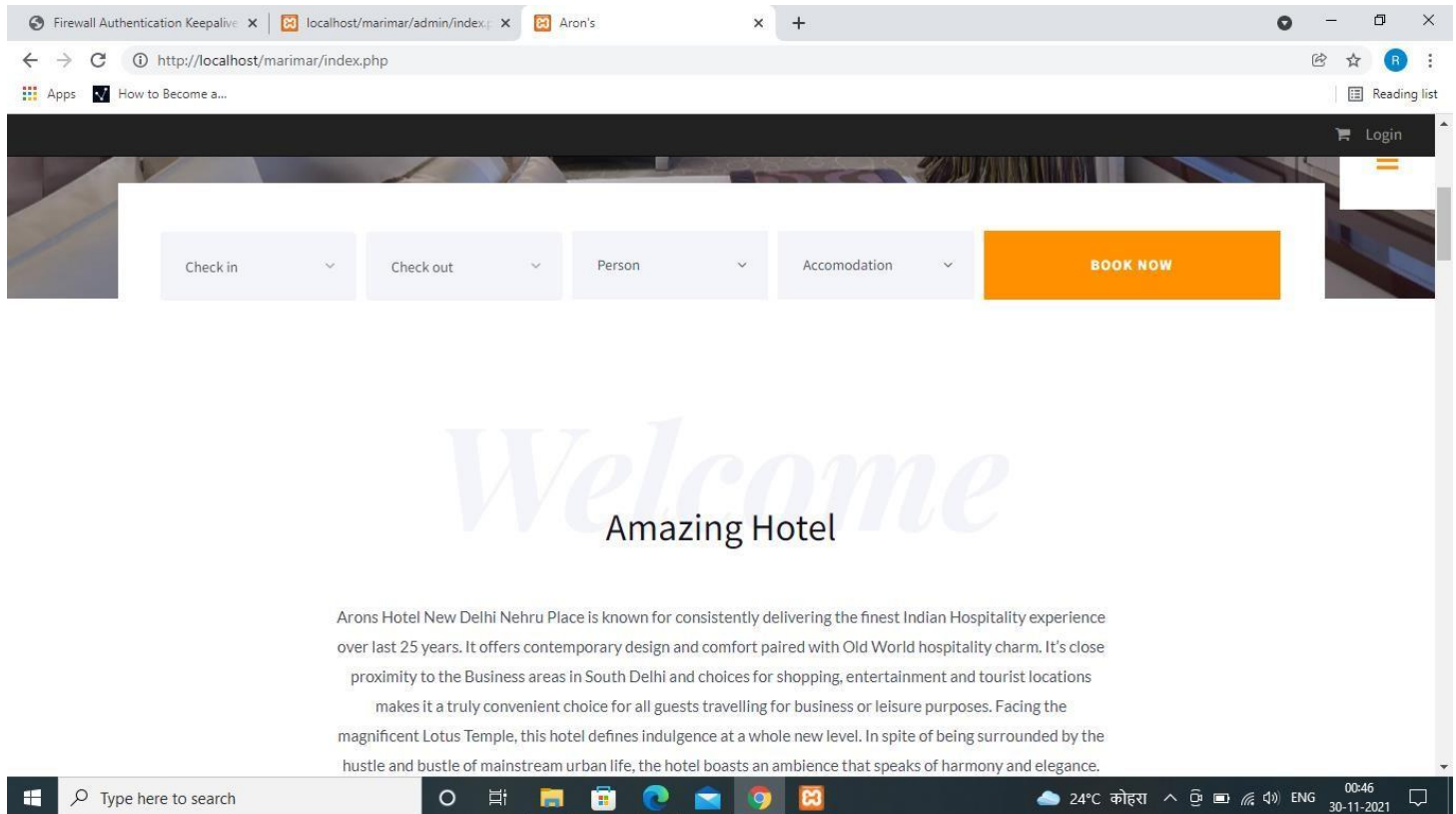
Book Your Stay

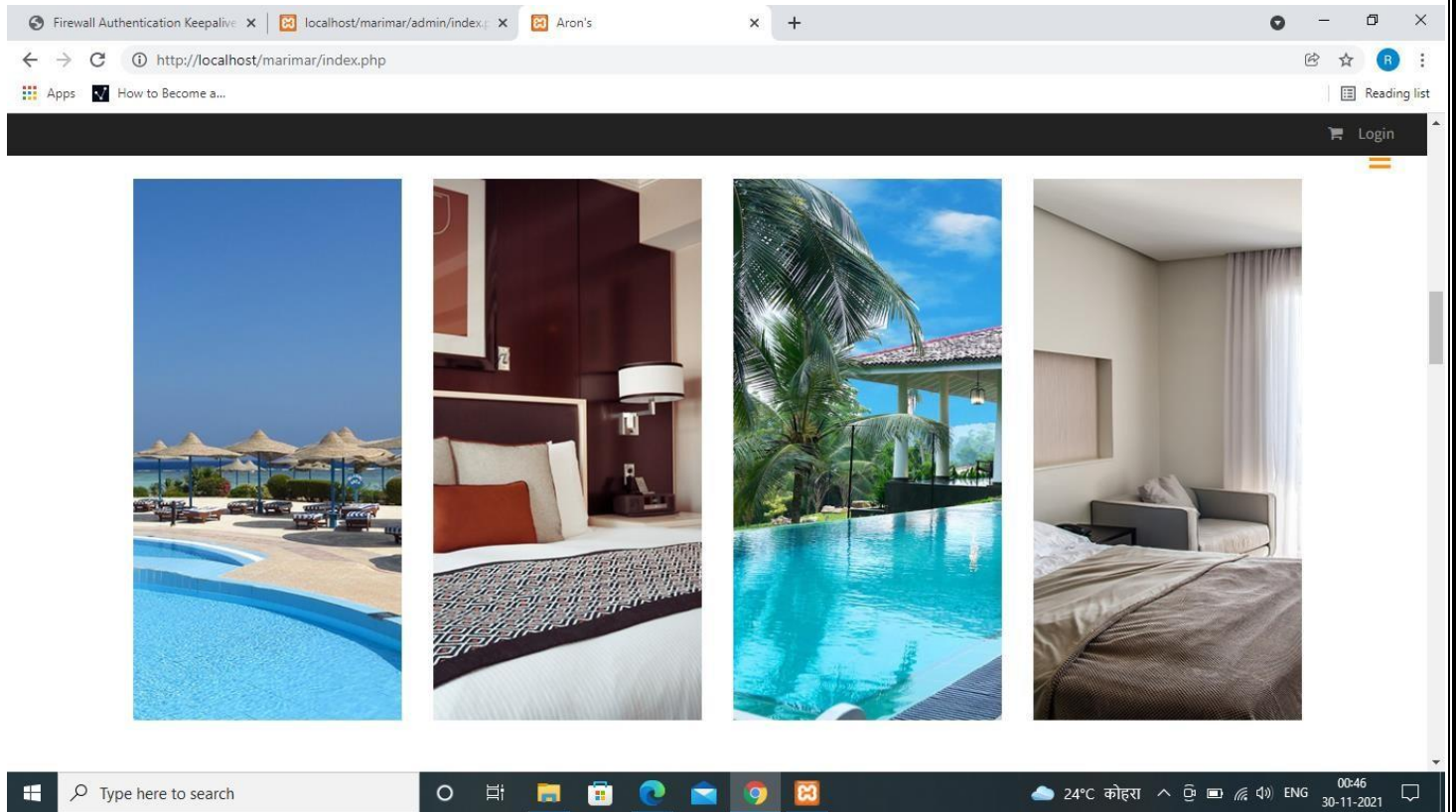
Welcome to ARON's Hotel

Check in ▾ Check out ▾ Person ▾ Accomodation ▾ **BOOK NOW**

Type here to search

24°C कोहरा ENG 00:46 30-11-2021






Firewall Authentication Keepalive × localhost/marimar/admin/index... × Aron's

← → ↻ ⓘ http://localhost/marimar/index.php

Apps ▾ How to Become a... Reading list

Login




Luxury Double Suite

Which offers a spacious separate living area. Stay connected with high-speed internet access at the large work desk, refresh in the elegant bathroom with a range of luxury amenities and enjoy access to the Lounge, and evening cocktails.

- ✓ Domestic Newspaper
- ✓ Buffet Breakfast at Coffee Shop
- ✓ Complimentary Airport Transfers
- ✓ 24 Hours High Speed Internet
- ✓ Usage of Swimming Pool
- ✓ Tea/Coffee Units

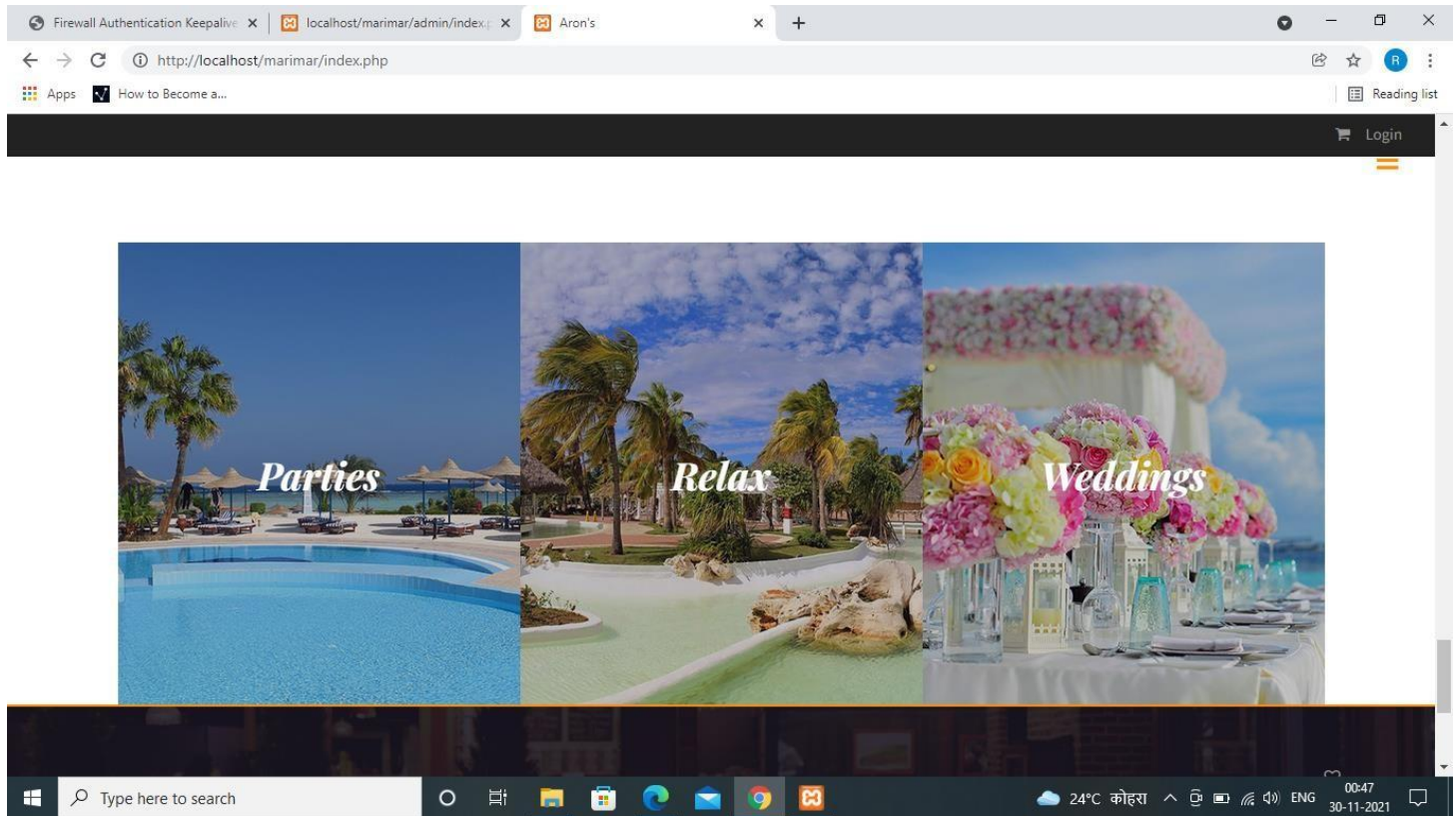
Rs.5000/ Night

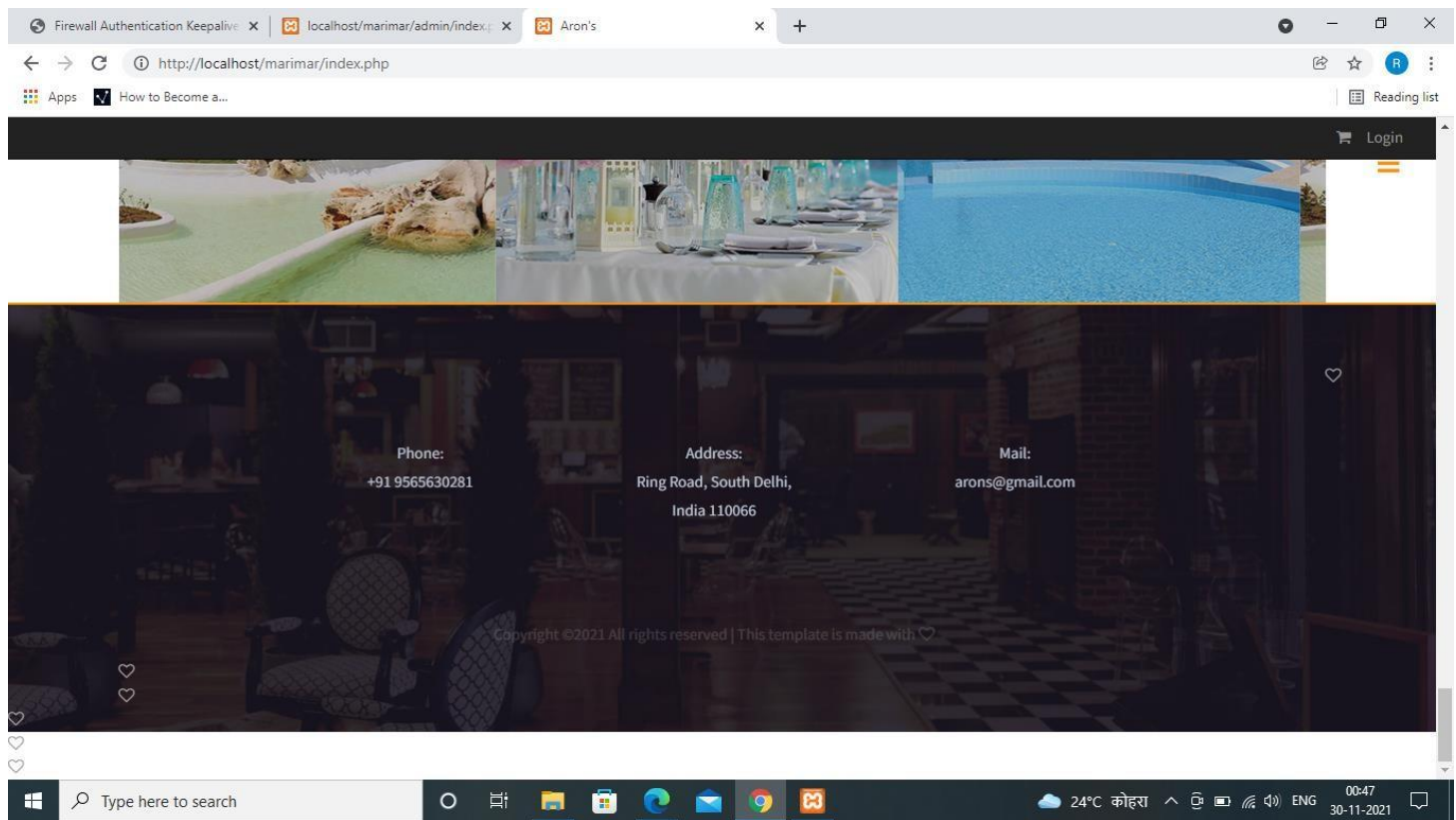
Type here to search



24°C कोहरा

00:46
30-11-2021





Firewall Authentication Keepalive x localhost/marimar/admin/index.php x Aron's x +


← → ↻ ⓘ http://localhost/marimar/index.php?p=about

Apps ▾ How to Become a...


Reading list

Login


What we offer




Outdoor Pool




Indoor Pool




Spa Zone



Hotel Room



Restaurant Interior



Wedding Reception


Windows taskbar: Type here to search, 24°C कोहरा, 00:47, 30-11-2021

Firewall Authentication Keepalive x localhost/marimar/admin/index.php x Aron's x +

← → ↻ http://localhost/marimar/index.php?p=rooms

Apps How to Become a... Reading list

Login




Wing A Standard Room

without TV

- ✓ Number of Person - 1
- ✓ Remaining Rooms :-2

1500/ Night

Book Now!




Wing A Travelers Time

With TV

- ✓ Number of Person - 1
- ✓ Remaining Rooms :0

1800/ Night

Book Now!



Wing A Bayanihan Room

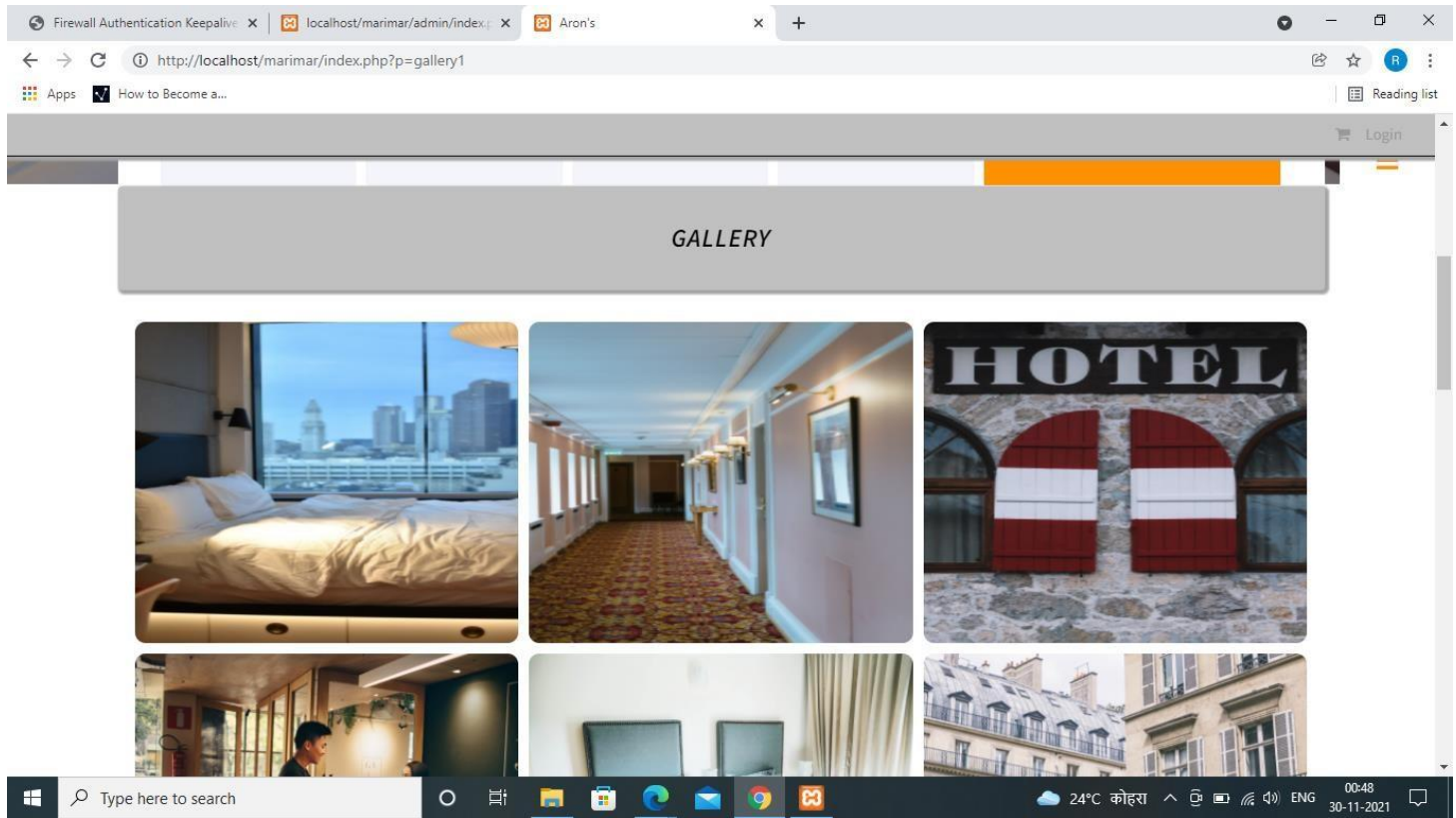
Without TV | for groups - minimum of 5 pax | 250php per person

- ✓ Number of Person - 5
- ✓ Remaining Rooms :1

4500/ Night

Book Now!

Windows Taskbar: Type here to search, 24°C कोहरा, 00:47, 30-11-2021



Firewall Authentication Keepalive x localhost/marimar/admin/index.php x Aron's x +

← → ↻ http://localhost/marimar/booking/ ☆ R Reading list

Apps ▾ How to Become a...

1 Login

BOOK YOUR Stay

Welcome to ARON's Hotel

Check in ▾

Check out ▾

Person ▾

Accommodation ▾

BOOK NOW

Your Booking Cart

Room	Check In	Check Out	Price	Nights	Amount	Action
Wing A Without TV	11/30/2021	12/01/2021	₹22000	1	\$22000	Remove

Total: ₹22000

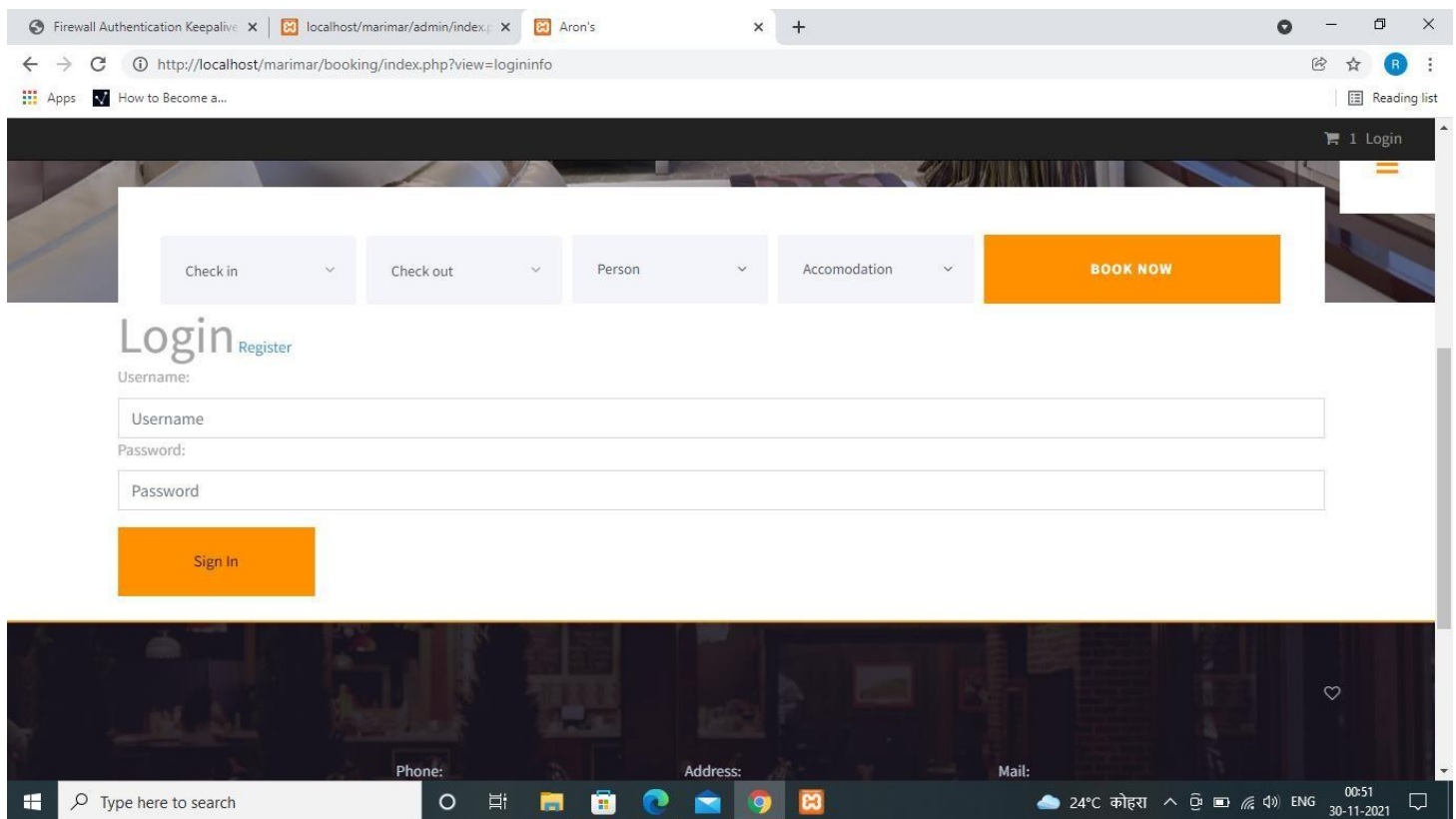
Clear Cart

CONTINUE BOOKING

localhost/marimar/booking/index.php?view=logininfo

Type here to search

24°C कोहरा ENG 00:51 30-11-2021



Firewall Authentication Keepalive x localhost/marimar/admin/index.x Aron's x +

← → ↻ http://localhost/marimar/booking/index.php?view=payment ☆ R

Apps How to Become a... Reading list

1 0 Ayush pizpw

Check in Check out Person Accomodation **BOOK NOW**

Billing Details

HomeBooking CartBooking Details

Name: Ayush pizpw1 Transaction Date: 11/29/2021
Address: efvfv Transaction Id: fr8sm7pi
Phone #: 535343

Room	Arrival	Departure	Price	Night(s)	Subtotal
Wing A Without TV	11/30/2021	12/01/2021	₹22000	1	₹22000

Total: ₹ 22000

Submit Booking

Type here to search

24°C कोहरा 00:52 30-11-2021 ENG

Firewall Authentication Keepalive

Room

Aron's

←

→

↻

http://localhost/marimar/admin/mod_room/index.php

☆

R

⋮

Apps

How to Become a...

Reading list

Home







Rooms

Accommodation


Reservation (1)

Logout

List of Rooms

No.	<input type="checkbox"/> Image	Room	Accommodation	Person	Price
<input type="checkbox"/>		Wing A (without TV)	Standard Room	1	₹1500
<input type="checkbox"/>		Wing A (Without TV)	Standard Room	2	₹22000
<input type="checkbox"/>		Wing A (With TV)	Travelers Time	1	₹1800
<input type="checkbox"/>		Wing A (With TV)	Travelers Time	2	₹2500
<input type="checkbox"/>		Wing A (Without TV for groups - minimum of 5 pax 250php per person)	Bayanihan Room	5	₹4500
<input type="checkbox"/>		Wing B and Ground Floor (With TV)	Standard Room	1	₹2000

New

 Delete Selected

Windows

Type here to search

🔍

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24°C

कोहरा

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🔊

ENG

00:54

30-11-2021

🗨️

Firewall Authentication Keepalive

Reservation

Aron's

[←](#)
[→](#)
[↻](#)

[http://localhost/marimar/admin/mod_reservation/index.php](#)

Apps

How to Become a...

Reading list

Home

Rooms

Accomodation

Reservation (1)

Logout

#	Guest	Transaction Date	Confimation Code	Total Rooms	Total Price	Status	Action
	Ayush kumar	2021-11-29 08:22:13	myux7ed0	1	₹22000	Pending	<div>View</div> <div>Cancel</div> <div>Confirm</div> <div>Delete</div> <div>Edit</div>
	Ayush kumar	2021-11-29 01:40:24	60m8wr3y	1	₹1500	Confirmed	<div>View</div> <div>Cancel</div> <div>Check in</div> <div>Delete</div> <div>Edit</div>
	Ayush kumar	2021-11-29 11:40:33	itotwu7n	1	₹1500	Confirmed	<div>View</div> <div>Cancel</div> <div>Check in</div> <div>Delete</div> <div>Edit</div>
	Ayush kumar	2021-11-28 09:06:39	nfaiiz5n	3	₹1665	Confirmed	<div>View</div> <div>Cancel</div> <div>Check in</div> <div>Delete</div> <div>Edit</div>
	Ayush kumar	2021-11-27 08:08:49	fqootyrf	1	₹990	Checkedout	<div>View</div> <div>Delete</div> <div>Edit</div>

Windows

Type here to search

🔍

📅

📁

📧

🌐

📧

🔍

📧

24°C

कोहरा

00:54

30-11-2021

ENG