



Al Shams Motel

Software Requirement Specification Doc.





Al Shams Motel

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1. Introduction

The Motel Management System for Al Shams Motel is a tool for booking the rooms of Motel rooms and suites through the online process by the Customer. It provides the proper management tools and ease of access to the Customer Information.

1.1 Purpose

SRS is a software requirement specification (SRS) that outlines the requirements of a newly introduced Motel management system. It is used to design, construct and test the system, and provides detailed information on the construction process. The Motel end user has detailed information for testing and the constructing team constructs the software according to SRS.

1.2 Scope

The MMS manages rooms and room booking, with two end users: Admin and Guest. Admins can access the system without restrictions. Guests can only check room availability and book rooms.

1.3 Definition

- M.M.S. = Motel Management System
- S.R.S. = Software Requirement System
- End Users = Users using the System
- S.Q.L = Structured Query Language

1.4 System Overview

The Motel management system is a complex system with specific requirements. It manages customer booking records and fulfills the requirements of the clients. This system will give complete information to the client about the Motel management system.

2. Overall Description

We are organizing a SRS with the help of overall description and specific requirements to meet the requirements of the Motel management system. Object oriented approaches will be used to arrange coding.

2.1 Product Perspective

The Motel Management System will be produced by the project team to manage the problems caused by the current manual system. It will include attractive interfaces with easy access, better options for calculations and other tasks related to customers, and an easier alternative for customers to book online.

2.2 User Characteristics

The MMS project is intended for booking rooms through an online platform.

- Admin: The admin user can see and authorize the goals handled by the system, and manage all the resources available in the MMS. The admin can also edit the details of each room, add new rooms, or even remove existing rooms from the website. The admin can also change some of the site settings. In addition, the admin can check the reservations and check-ins and checkouts.

3. Specific Requirements

3.1 Domain Requirements

- ❖ Room Availability: The system should have the capability to display real-time availability of rooms in the motel, based on the check-in and check-out dates provided by the user.
 - ❖ Room Information: The system should provide detailed information about each room, including its category, price per day, and room name.
 - ❖ Booking Management: The system should allow customers to make online bookings for rooms, and administrators should be able to manage these bookings, including updating, adding, and deleting them.
 - ❖ Room Management: The system should allow administrators to manage room information, including updating, adding, and deleting rooms and room categories.
 - ❖ Website Content Management: The system should allow administrators to manage website content.
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- ❖ Check-in/Check-out Management: The system should allow administrators to manage guest check-in and check-out, including updating, adding, and deleting guest information.

3.2 External Interface Requirements

Interface is the component of the system that interacts with the system. The Motel Management System provides a GUI interface in which users can operate a system using icons menus graphics. Each operation of input is designed with appropriate record or attributes and data is entered into a database using a submit button.

3.3 Functional Requirements

- ❖ The customers are able to check available rooms in a specific time period.
- ❖ The customer can then view the rooms and their information and pick one to book..
- ❖ The system will record the following details of the customer:
 - Name
 - Phone Number
- ❖ The system allows admin to update, add, and delete booking information.
- ❖ The system allows admin to update, add, and delete room information and new room categories.
- ❖ The system allows admin to update, add, and delete users.
- ❖ The system allows admin to update, add, and delete website content
- ❖ The system allows admin to check-in and check-out guests.
- ❖ The system is able to provide full access to Admin for any changes in booking, room information, and customer information.

Name	Fill Booking Form
Description	This function requires the user to fill out a form with their personal information and generate a booking.
Actors	Customer/Client
Pre-Condition	The client should check room

Name	Fill Booking Form
	availability dates
Main Flow of Events	<ol style="list-style-type: none"> 1. Client inputs the desired booking date in the home page. 2. Client selects "check availability" at the home page. 3. Client chooses the desired room and selects "book" in the rooms page. 4. Booking Information form displayed. 5. Client enters data to required fields. 6. Client selects "book". 7. "Booking Successful" message displayed. 8. System generates booking and is now visible to the admin.
Extensions	If necessary details are left incomplete by the client, the client is prompted to enter all required fields.
Post-Condition	Booking record is now added to Bookings.

Name	View Room
Description	This function requires the user to see room availability options.
Actors	Customer/Client
Pre-Condition	Clients must pick the check-in and check-out dates.
Main Flow of Events	<ol style="list-style-type: none"> 1. Client chooses the check-in and check-out dates. 2. Client selects "check availability". 3. Client will be shown available room options for them to view.
Extensions	N/A

Name	View Room
Post-Condition	Client can select a room to book.

Name	Check Availability
Description	This function requires the client to choose the desired check-in and check-out dates for their booking.
Actors	Customer/Client
Pre-Condition	The client must access the website.
Main Flow of Events	<ol style="list-style-type: none"> 1. Client accesses the website. 2. Client will be prompted to select "check-in date" and "check-out date". 3. Client selects "check availability".
Extensions	If client didn't select a date, they will be
Post-Condition	Client will be redirected to the available rooms for their selected dates.

Name	Edit Room Details
Description	This function allows the admin to edit the details like "Room Name", "Room Description", and "Price" of each existing room.
Actors	Admin
Pre-Condition	Room details are unedited.
Main Flow of Events	<ol style="list-style-type: none"> 1. Admin logs in using Admin credentials 2. Admin clicks on Rooms to view the rooms 3. Admin clicks on "Edit" button to edit room details 4. Admin can now access room

Name	Edit Room Details
	<p>editing form</p> <p>5. Admin can edit Room name, Room category, and Room availability</p>
Extensions	N/A
Post-Condition	New room details are saved and updated

Name	View room (admin)
Description	This function allows the admin to view room status
Actors	Admin
Pre-Condition	Room must already exist in the system
Main Flow of Events	<ol style="list-style-type: none"> 1. Admin logs in with their credentials 2. Admin can then pick to view any room
Extensions	N/A
Post-Condition	The admin can then add a new room or update room details

Name	Edit user details
Description	The admin has logged into the system and has appropriate permissions to edit user details.
Actors	Admin
Pre-Condition	User must be registered in the system to be able to edit his details
Main Flow of Events	1. Admin navigates to the "user" section of the system

Name	Edit user details
	<p>2.system displays a list of all users currently registered.</p> <p>3.system display an action button next to each user and admin clicks on it</p> <p>4.Action button displays the user record and options so an admin can (delete,update,save,edit)</p> <p>5.Admin modifies the required fields.</p> <p>6. Admin submits the updated details.</p> <p>7. System validates the changes and saves them to the user's account.</p>
Extensions	If the user enters invalid data or there are errors in the submission, the system displays an error message with details on how to fix the issue
Post-Condition	The user's details have been updated in the system and the changes have been saved.

Name	Add new user
Description	This function allows the admin to add a new user to the list of already existing users.
Actors	Admin
Pre-Condition	Admin accesses "Users" page
Main Flow of Events	<ol style="list-style-type: none"> 1. Admin clicks on "New user" 2. The form for creating a new user shows on the screen 3. Admin can add "Name", "Username", "Password", and "User type". 4. Admin clicks save
Extensions	If necessary fields left by user prompt Admin to enter all required fields.
Post-Condition	New user is now added and shows on

Name	Add new user
	"Users" table.

Name	Delete User
Description	This function deletes a user and their details
Actors	admin
Pre-Condition	Admin logs in with admin username and password
Main Flow of Events	1.admin selects the user they want to delete 2.admin presses "delete" button
Extensions	if necessary fields left by Admin prompt Admin to enter all required fields.
Post-Condition	User is removed from the system and database

Name	Edit site details
Description	This function allows the admin to update the Motel name, Motel email, Motel contact, and the Motel about content
Actors	admin
Pre-Condition	Site details must already be filled
Main Flow of Events	<ol style="list-style-type: none"> 1. Admin logs in using their credentials 2. Admin has to navigate to site settings 3. Admin can then update any already existing site details

Name	Edit site details
Extensions	If any detail is empty the admin has to fill it
Post-Condition	Updates are applied and website is edited

Name	View Reservation
Description	Allows an admin to view reservation details of a user in the system.
Actors	Admin
Pre-Condition	User must have reserved a room
Main Flow of Events	<p>1. Admin navigates to the "Booked" section of the system</p> <p>2. System displays a list of all reservations currently made by users</p> <p>3. Admin selects a reservation from the list.</p> <p>4. System displays the reservation details, such as check-in and check-out dates, room category, room price, Reference no., contact no., days and amount</p>
Extensions	If the reservation information is incorrect or missing, the system displays an error message with details on how to fix the issue.
Post-Condition	The admin has successfully viewed the reservation details of the user in the system.

Name	Check-in room
Description	This function checks-in the room in the system when the guest is present at the Motel

Name	Check-in room
Actors	admin
Pre-Condition	The room is booked but not checked-in The admin logs in with admin account
Main Flow of Events	1. admin selects the room they want to check-in 2. Admin clicks "check-in" button 3.Admin validates check-in form is correct 4. Admin "saves" check-in form
Extensions	If any fields are empty the admin is prompt to fill them
Post-Condition	Room is checked-in

Check-in room	Check-out room
Description	This function checks-out the room in the system when the guest is present at lobby to check out and hand in key
Actors	admin
Pre-Condition	Room is checked in and guest is staying The admin logs in with admin account
Main Flow of Events	1. admin selects the room they want to check-out 2. Admin clicks "view" room check-out button 3.Admin validates room information is correct 4. Admin clicks "check-out"
Extensions	
Post-Condition	Room is checked-out Room is now available for booking

Name	Edit booking
Description	Allows an admin to edit booking details of a user in the system.
Actors	admin
Pre-Condition	User must have reserved a room
Main Flow of Events	<p>1. Admin navigates to the "Booked" section of the system</p> <p>2. System displays a list of all reservations currently made by users</p> <p>3. Admin selects a reservation from the list.</p> <p>4. System displays the reservation details, such as check-in and check-out dates, room category, room price, Reference no., contact no., days and amount</p> <p>5. Admin has the option to edit the reservation or view any other details regarding the reservation.</p> <p>6. Admin has the option to edit the reservation or view any other details regarding the reservation.</p>
Extensions	If the reservation information is incorrect or missing, the system displays an error message with details on how to fix the issue.
Post-Condition	The admin has successfully viewed and edited the reservation details of users in the system.

Name	Login-Admin
Description	Login page for the Admin
Actors	Admin
Pre-Condition	Admin is not logged in
Main Flow of Events	1. Admin selects "Admin Login" at

Name	Login-Admin
	home page 2. Admin fills in login information 3. Admin clicks "Login"
Extensions	If necessary fields left by Admin prompt Admin to enter all required fields. Admin is able to access Admin pages if login information is valid.
Post-Condition	Admin is now logged in and able to access Admin pages

Name	Logout-admin
Description	Logout page for the admin
Actors	admin
Pre-Condition	Admin must already be logged in
Main Flow of Events	1. Admin must login 2. Admin can logout
Extensions	N/A
Post-Condition	Admin is logged out

3.4 Performance Requirements

- ❖ Data in the database should be updated as soon as the customers book.
- ❖ Query of customers will be solved within 6 minutes.
- ❖ Load time of the UI will not take more than 7 seconds.
- ❖ Check availability process will be done within 3 seconds.

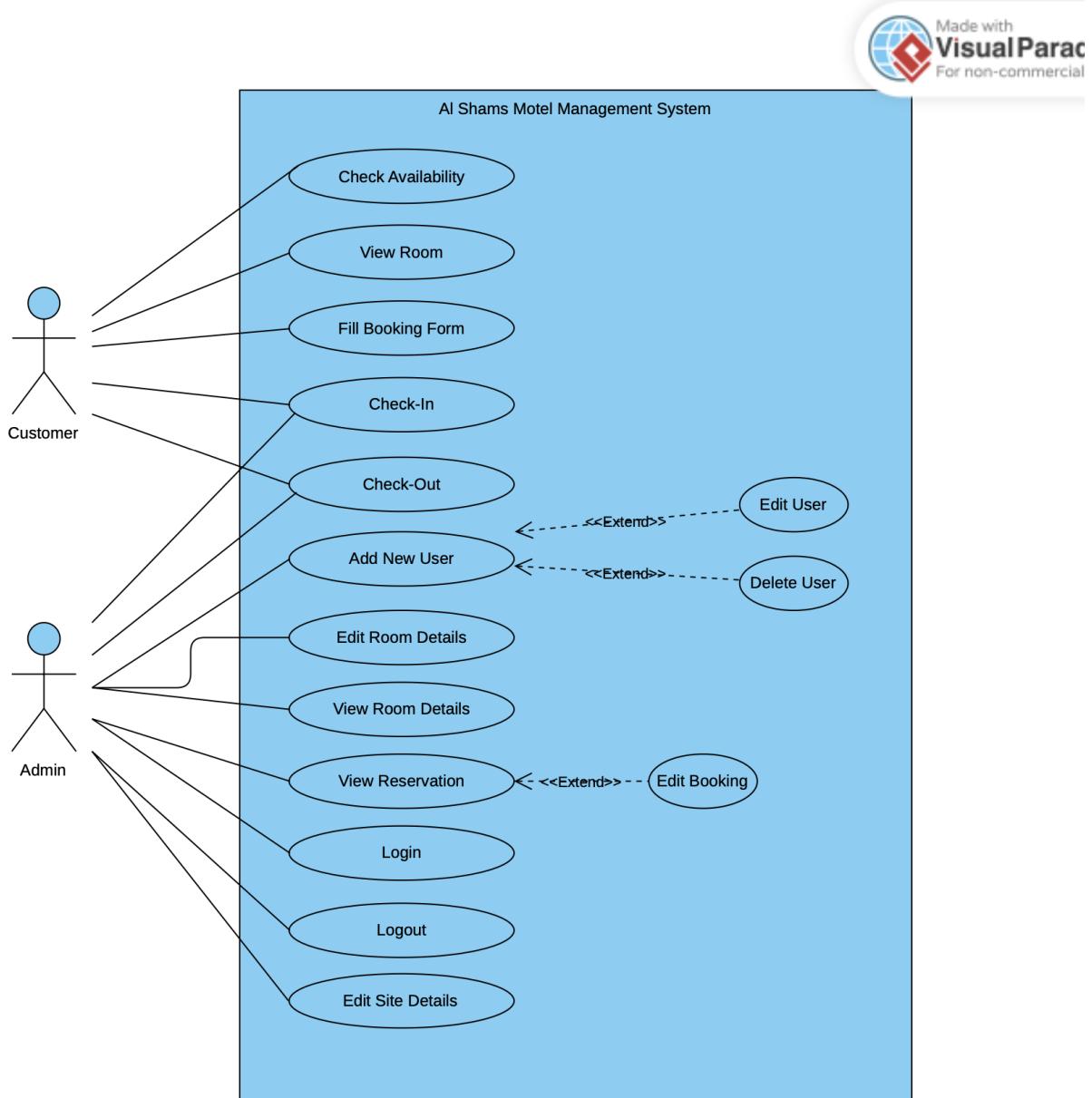
3.5 Non-Functional Requirements

Non-Functional Requirements are the same for most, if not all software systems. It depends upon the assumptions. It is arranged for the customer. Functional requirements included safety, security and other related requirements.

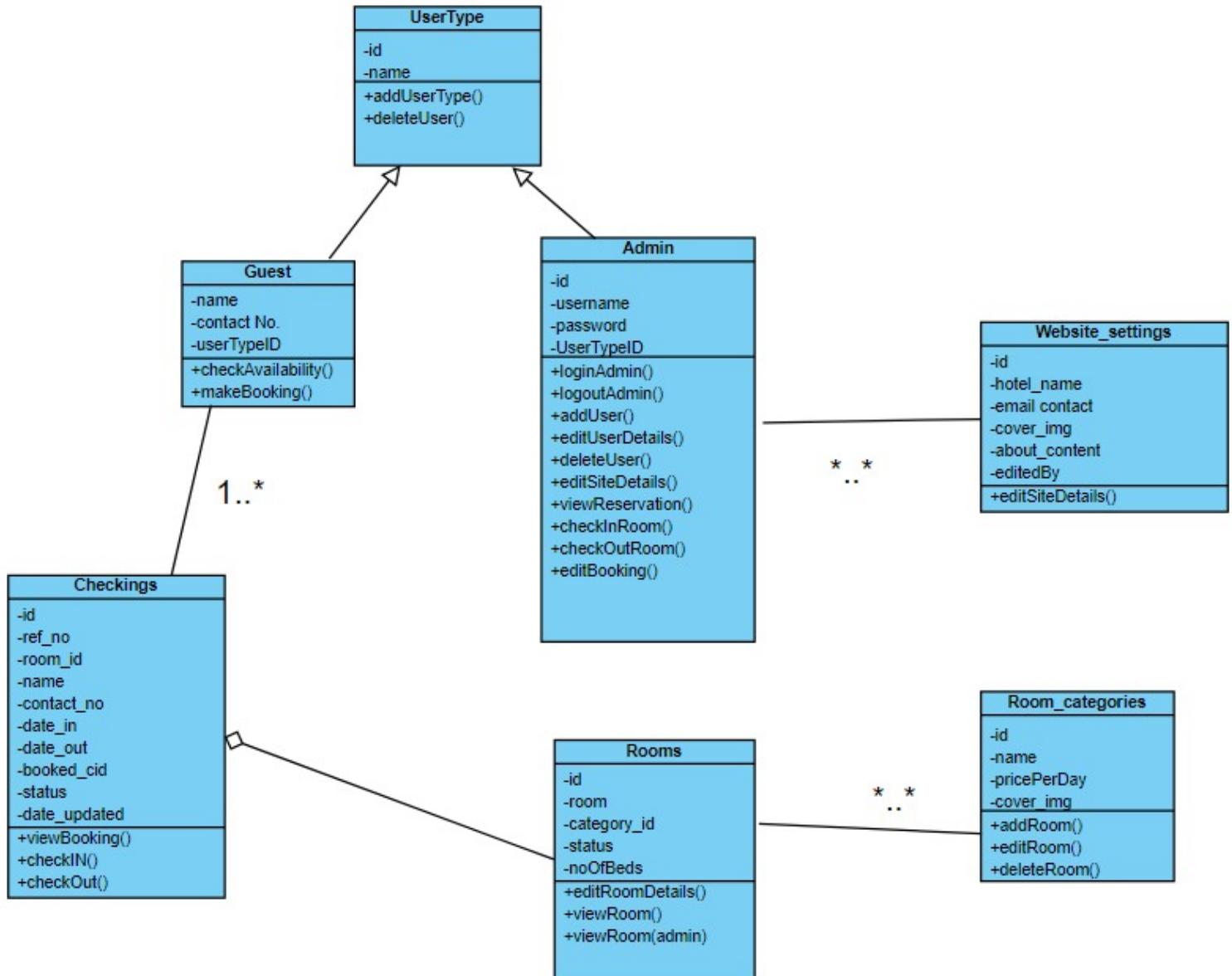
- ❖ Performance
 - The system should be able to handle a large number of concurrent users without slowing down, ensuring quick response times for queries and updates.
 - ❖ Security Requirement
 - The system should have robust security measures to protect user data, prevent unauthorized access, and ensure secure transactions.
 - ❖ Reliability
 - The system should be highly reliable, with minimal downtime and quick recovery times in the event of any failures or errors.
 - ❖ Scalability
 - The system should be scalable to handle future growth in the number of users, rooms, and bookings.
 - ❖ Availability
 - Our proposed MMS is to always be available to all clients and backed on the cloud to make sure that even with high traffic during the season it meets all users' queries.
 - ❖ Flexibility
 - The system is flexible enough to provide enough space to add new features and to handle them efficiently.
 - ❖ Usability
 - The system should be easy to use, with an intuitive interface and clear navigation for users of all skill levels.
 - ❖ Compatibility
 - The system should be compatible with a variety of web browsers, operating systems, and devices, ensuring that users can access the system from any platform.
 - ❖ Maintainability
 - The system should be easy to maintain, with clear documentation and support for software updates and bug fixes.
 - ❖ Integration
-

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- The system should be able to integrate with other systems, such as payment gateways and accounting software, to facilitate seamless operations.
-

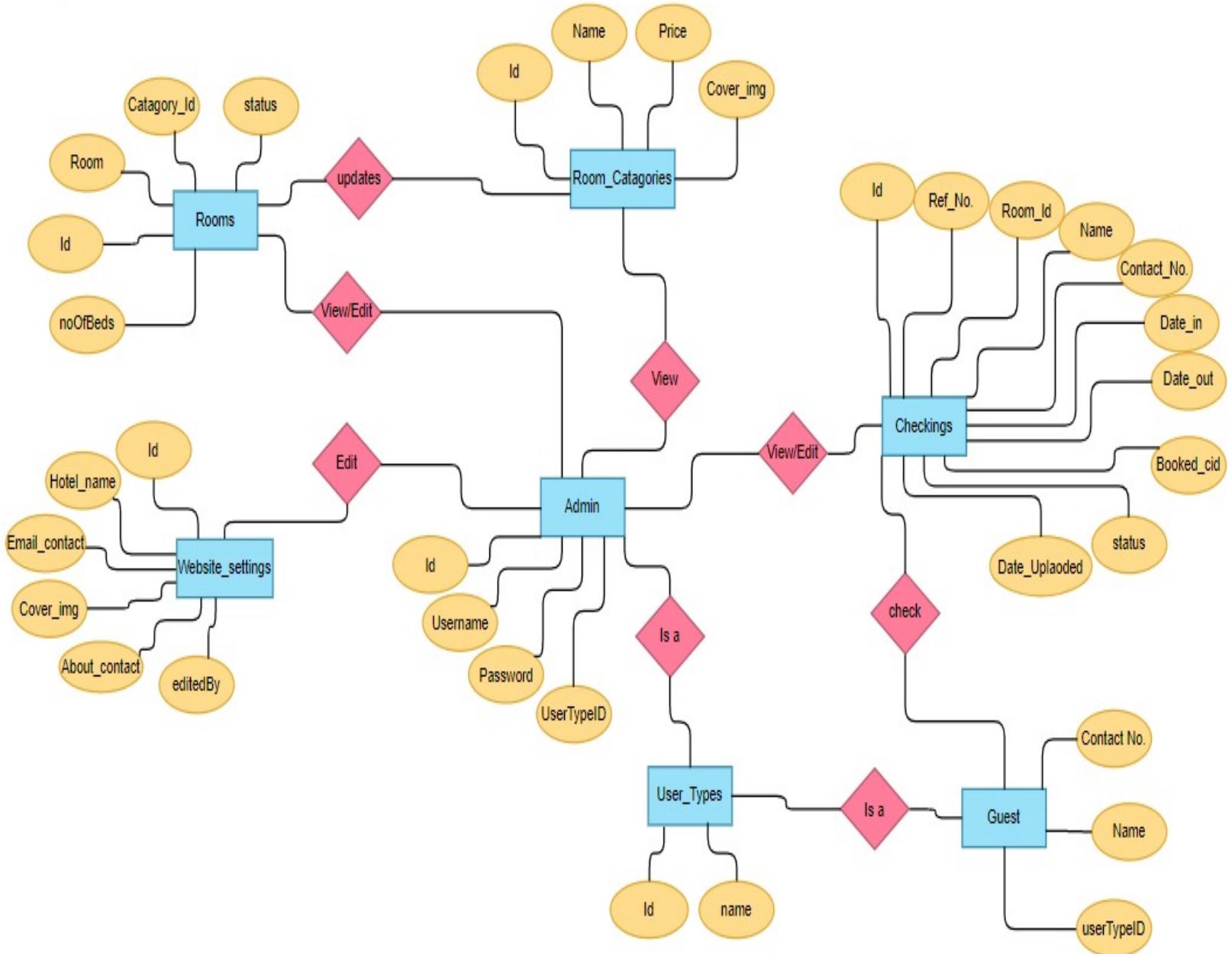
4. USE Case Diagram



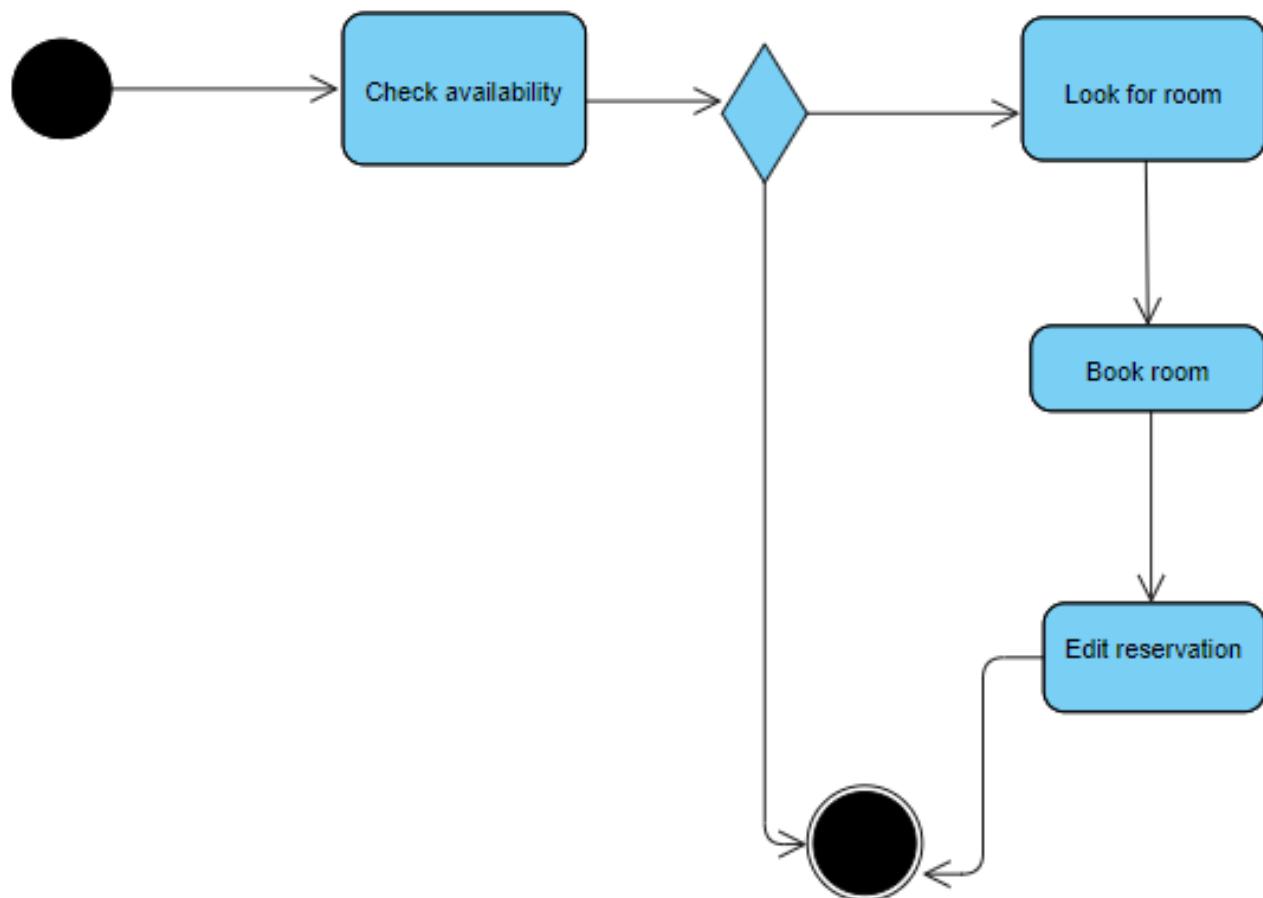
5. Class Diagram



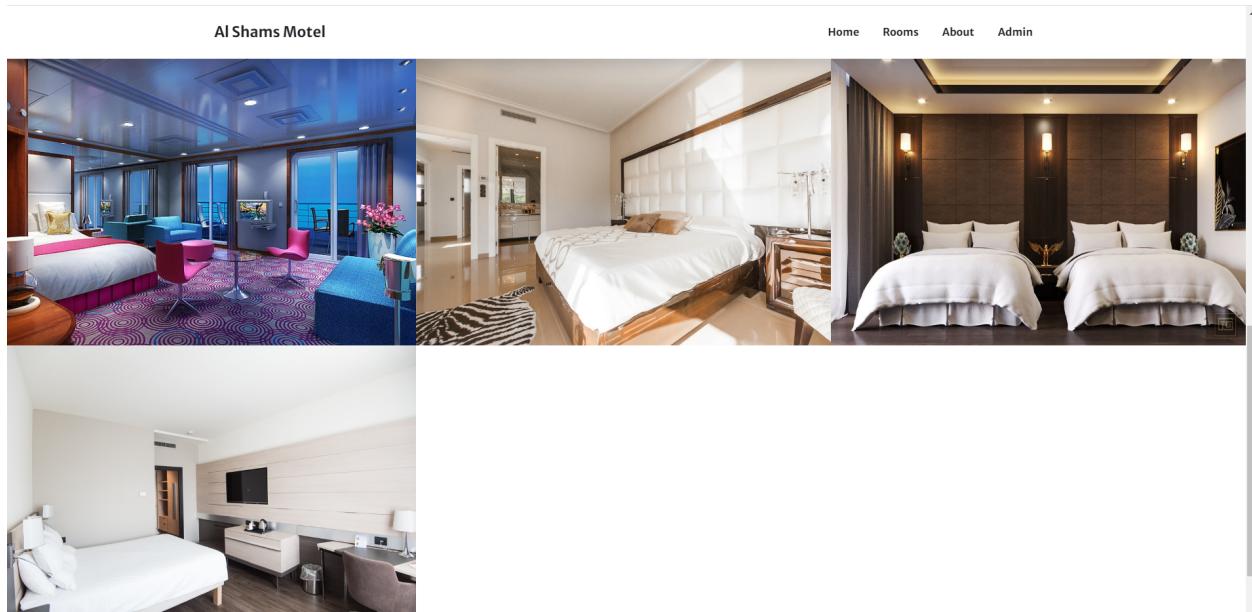
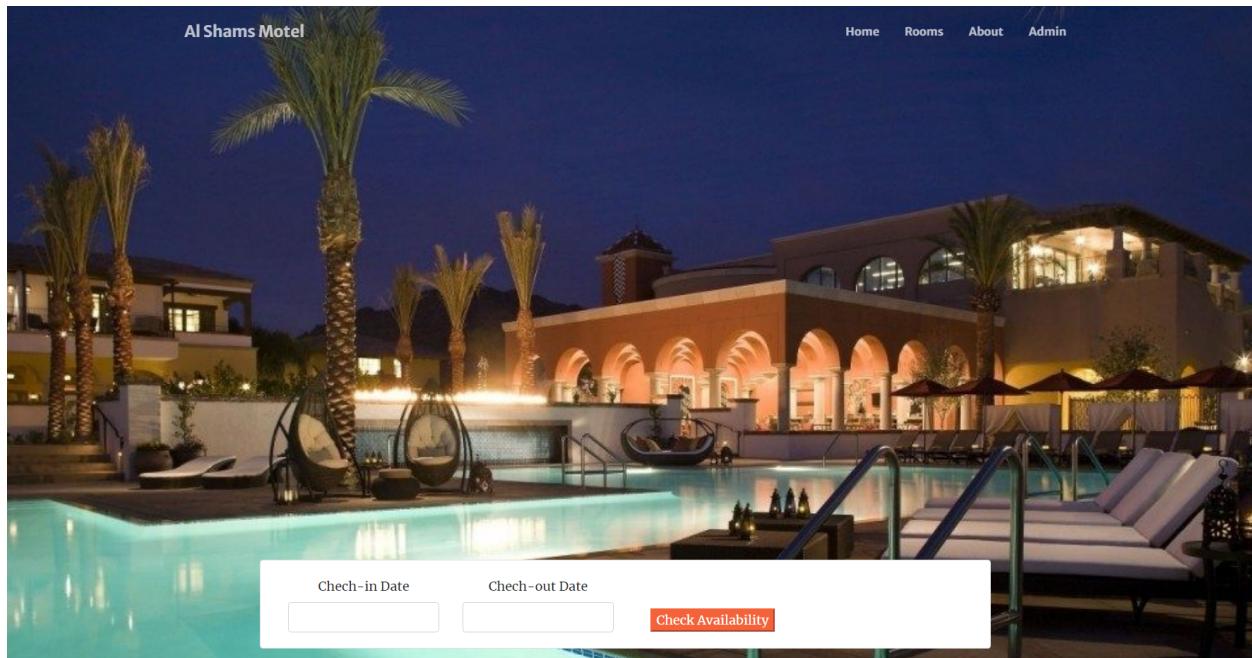
6. ERD Diagram

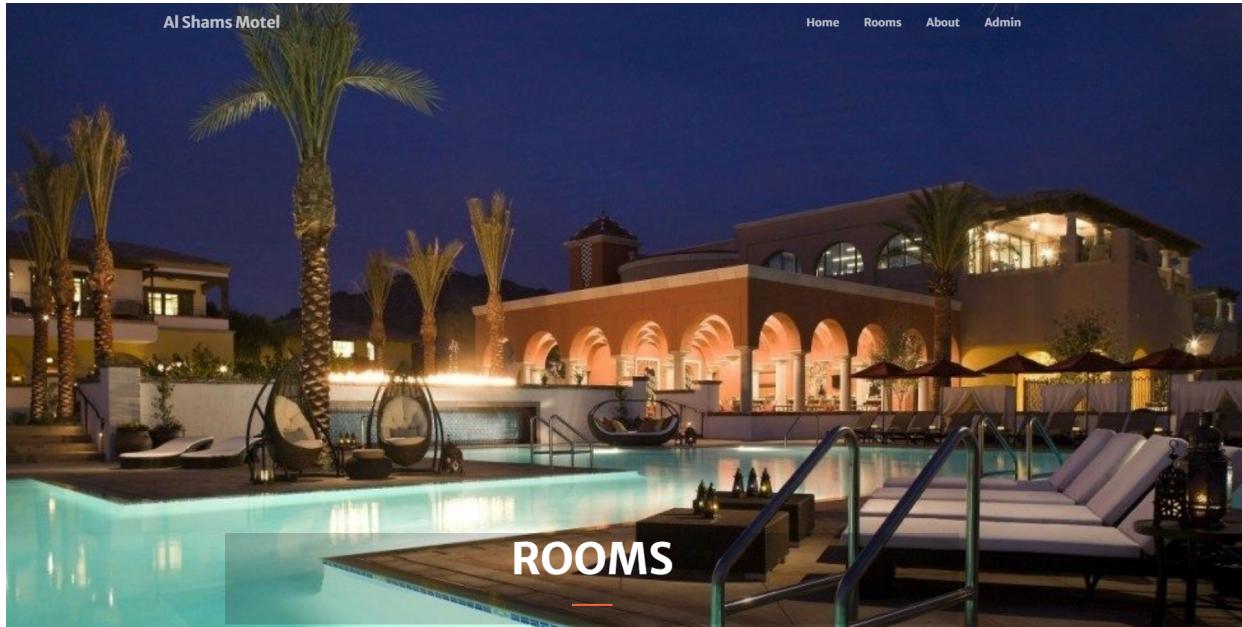


7. State Diagram



8. Screenshots of the system





Al Shams Motel

Home Rooms About Admin

Check-in Date Check-out Date

2023-05-06 2023-05-09 Check Availability

A photograph of a single room interior featuring a double bed, a desk with a chair, and a flat-screen TV mounted on the wall.

\$ 120.00 / per day
Single Room

[Book now](#)

A photograph of a Deluxe Room interior, which appears to be a suite, featuring a large bed, a sofa, and a balcony with a view.

\$ 500.00 / per day
Deluxe Room

[Book now](#)

Book

Name

Contact #

Check-in Date

06/05/2023

Check-in Date

10:35 PM

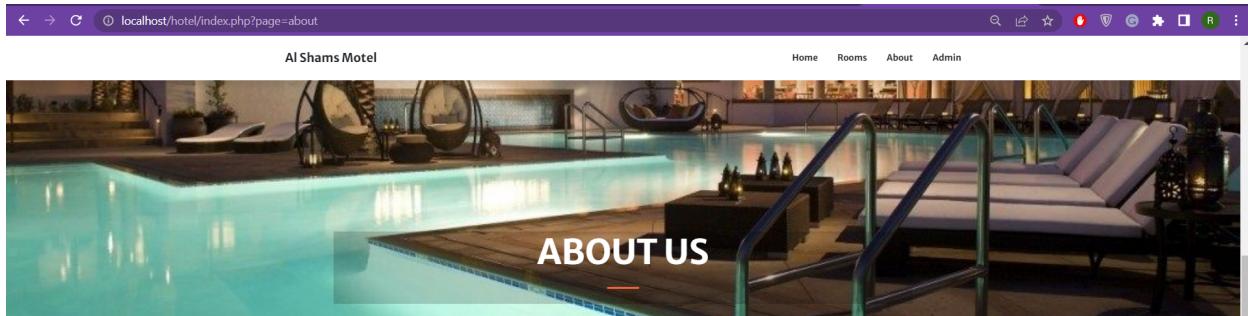


Days of Stay

3

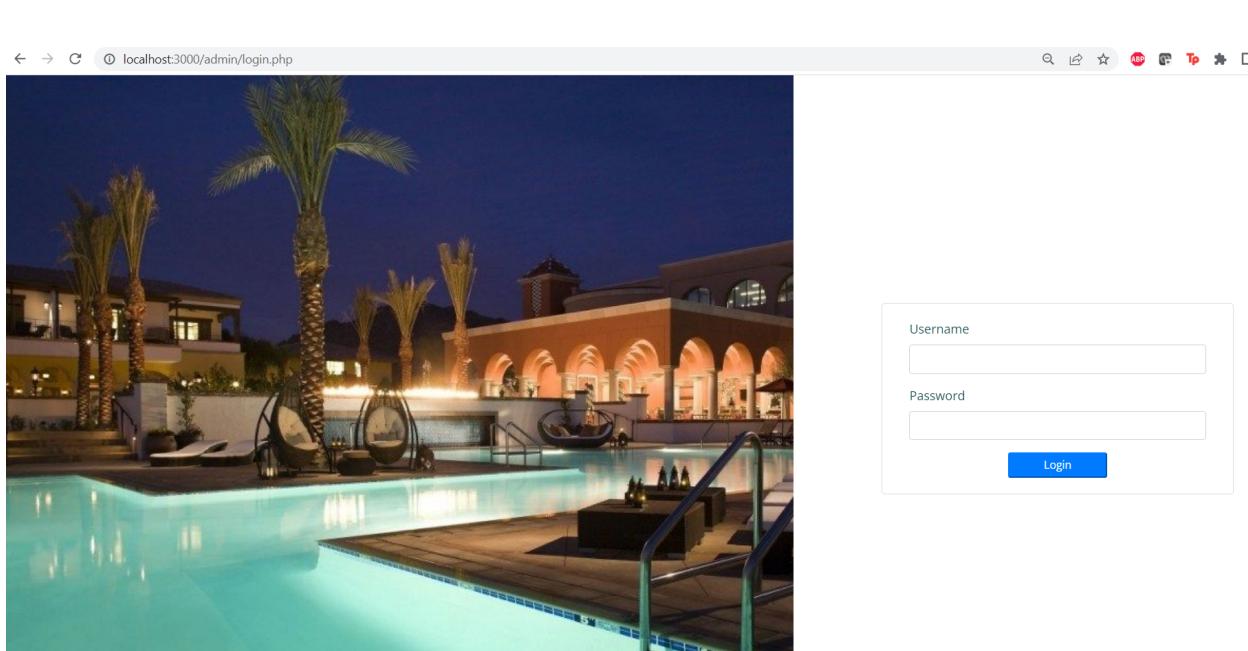
Save

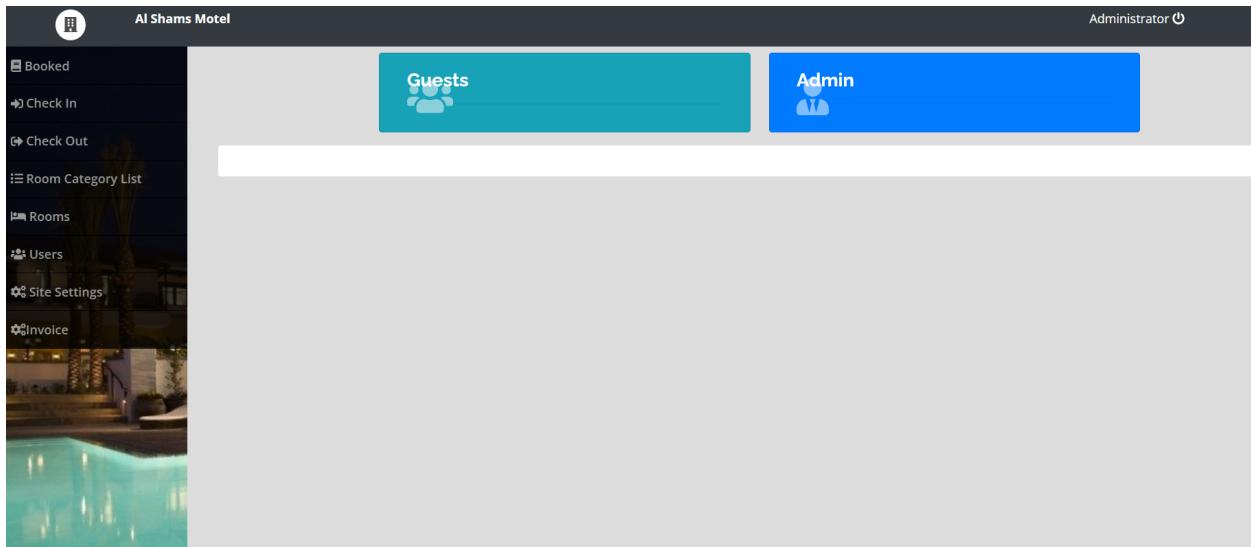
Cancel



About Us?

At Al Shams Motel, we're passionate about providing exceptional hospitality and top-notch service to our guests. Our team is dedicated to making your stay as comfortable and convenient as possible, whether you're traveling for business or pleasure. With a range of comfortable and affordable rooms, as well as a variety of amenities and services, we're confident that we can provide you with the perfect home away from home. We're committed to maintaining a high standard of cleanliness and safety throughout our motel, and we're always looking for ways to improve our offerings and exceed our guests' expectations. Thank you for choosing Al Shams Motel, and we look forward to welcoming you soon!





This screenshot shows the "Guests" list page. The interface is similar to the dashboard above, with the "Guests" button highlighted. The main area features a table with the following columns: #, Category, Reference, Status, and Action. A dropdown menu above the table allows users to "Show 10 entries". A search bar is also present. Below the table, a message states "No data available in table". At the bottom, it says "Showing 0 to 0 of 0 entries" and includes "Previous" and "Next" navigation links. The left sidebar contains the same set of navigation links as the dashboard.

Al Shams Motel Administrator

- Booked
- Check In
- Check Out
- Room Category List
- Rooms
- Users
- Site Settings
- Invoice

Category
All

Show 10 entries Search:

#	Category	Room	Status	Action
1	Deluxe Room	Room-102	Available	<input type="button" value="Check-in"/>

Showing 1 to 1 of 1 entries Previous Next

Al Shams Motel Administrator

- Booked
- Check In
- Check Out
- Room Category List
- Rooms
- Users
- Site Settings
- Invoice

Show 10 entries Search:

#	Category	Room	Reference	Status	Action
1	Single Room	Room-101	0000	Checked-Out	<input type="button" value="View"/>
2	Single Room	Room-101	9564082520	Checked-Out	<input type="button" value="View"/>
3	Single Room	Room-101	2765813481	Checked-Out	<input type="button" value="View"/>
4	Deluxe Room	Room-102	4392831400	Checked-Out	<input type="button" value="View"/>
5	Single Room	Room-101	6479004224	Checked-In	<input type="button" value="View"/>

Showing 1 to 5 of 5 entries Previous Next

Al Shams Motel Administrator

- Booked
- Check In
- Check Out
- Room Category List
- Rooms
- Users
- Site Settings
- Invoice

Room Category Form

Category
Price
Image No file chosen

#	Img	Room	Action
1		Name : Deluxe Room Price : \$500.00	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
2		Name : Single Room Price : \$120.00	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
3		Name : Family Room Price : \$350.00	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
4		Name : Twin Bed Room Price : \$200.00	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

Al Shams Motel

Administrator

Room Form

Room: Room

Category: Category Deluxe Room

Availability: Availability Available

Action:

#	Category	Room	Status	Action
1	Single Room	Room-101	Unavailable	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
2	Deluxe Room	Room-102	Available	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

Al Shams Motel

Administrator

+ New user

#	Name	Username	Action
1	Administrator	admin	<input type="button" value="Action"/>

localhost/hotel/admin/index.php?page=site_settings

Al Shams Motel

Administrator

Hotel Name: Al Shams Motel

Hotel email: Alshams@email.com

Hotel Contact: +6948 8542 623

Hotel About Content:

At Al Shams Motel, we're passionate about providing exceptional hospitality and top-notch service to our guests. Our team is dedicated to making your stay as comfortable and convenient as possible, whether you're traveling for business or pleasure. With a range of comfortable and affordable rooms, as well as a variety of amenities and services, we're confident that we can provide you with the perfect home away from home. We're committed to maintaining a high standard of cleanliness and safety throughout our motel, and we're always looking for ways to improve our offerings and exceed our guests' expectations. Thank you for choosing Al Shams Motel, and we look forward to welcoming you soon!

About Us?

Image: Choose File No file chosen

Save

