

PROJECT PROFILE

Project Name	Online Hotel Room Booking
Platform	Windows 10
Front End	PHP
Back End	MySQL
Documentation Tool	MS Word
Web Server	Apache (XAMPP)
Web Browser	Google Chrome, Microsoft Edge
Editor	Visual Studio Code
Project ID	BCA24_012
Guided By	Miss Radhika Raghani
Submitted To	Smt. K.S.N. Kansagra Mahila College
Project Duration	3 Months

PROJECT DEFINITION

- **Reason for choosing this definition**

An online hotel room booking system allows guests to book rooms. An efficient booking system simplifies the process, making it convenient for travelers.

- **Purpose**

A hotel room booking website lets guests book rooms quickly online. It's like a digital "Reserved" sign.

- **General Information**

A hotel room booking is like a hotel's digital reception desk. Our website is about its location, what rooms look like, and other services.

It reduces manual work and improves the efficiency:

1. To store records
2. Control Booking and services
3. Billing

ANALYSIS

1. Admin Side Analysis

- **Admin login** – only the admin can login to this page.
- **User Profile** – The admin can view the user profile.
- **Review** – The admin can view and delete the review.
- **Receive Message** – The Admin can view and delete the user's message which is sent by email.
- **Manage Room** -The Admin can view, insert, update and delete the rooms.
- **Manage Booking** -The Admin can view and delete the booking.
- **Log out** – Through this page, the admin can log out of his/her account.

2. User Side Analysis

- **Login/Register** – The user can login and register to view the site.
- **Search Room** – The user can search the room and view the results.
- **Reserve Room**– The user can book and cancel the room.
- **Services** – Users can view the services like transportation, food, bar & drink etc and take the facilities with rooms.
- **Review** – The user can send a review about the Room and website.
- **About us** – Users can view the events, Activities, and about the website.
- **Contact us** – Users can contact us by email or contact number.
- **Log out** – The user can log out from his/her account through the page.

FEASIBILITY STUDY

Feasibility when starting a Project you would need to look at if it is possible to create this project.

A feasibility study analyses the viability of a project to determine whether the project or venture is likely to succeed.

The study is also designed to identify potential issues and problems that could arise while pursuing the project.

This system aims to determine quickly and at a minimum expense to establish how to solve a problem.

1. Technical Feasibility

Hardware Requirement

RAM	Minimum 1 GB
Hard Disk	250 GB
Processor	I5

Software Requirement

Operating System	Windows 10
Front End	PHP
Back End	MySQL
Web Server	Apache (XAMPP)
Web Browser	Chrome, Microsoft Edge

2. Operational Feasibility

- Operational feasibility criteria measure the urgency of the problem or the acceptability of a solution.
- Work properly if it is being developed and implemented.
- Easy to maintain.

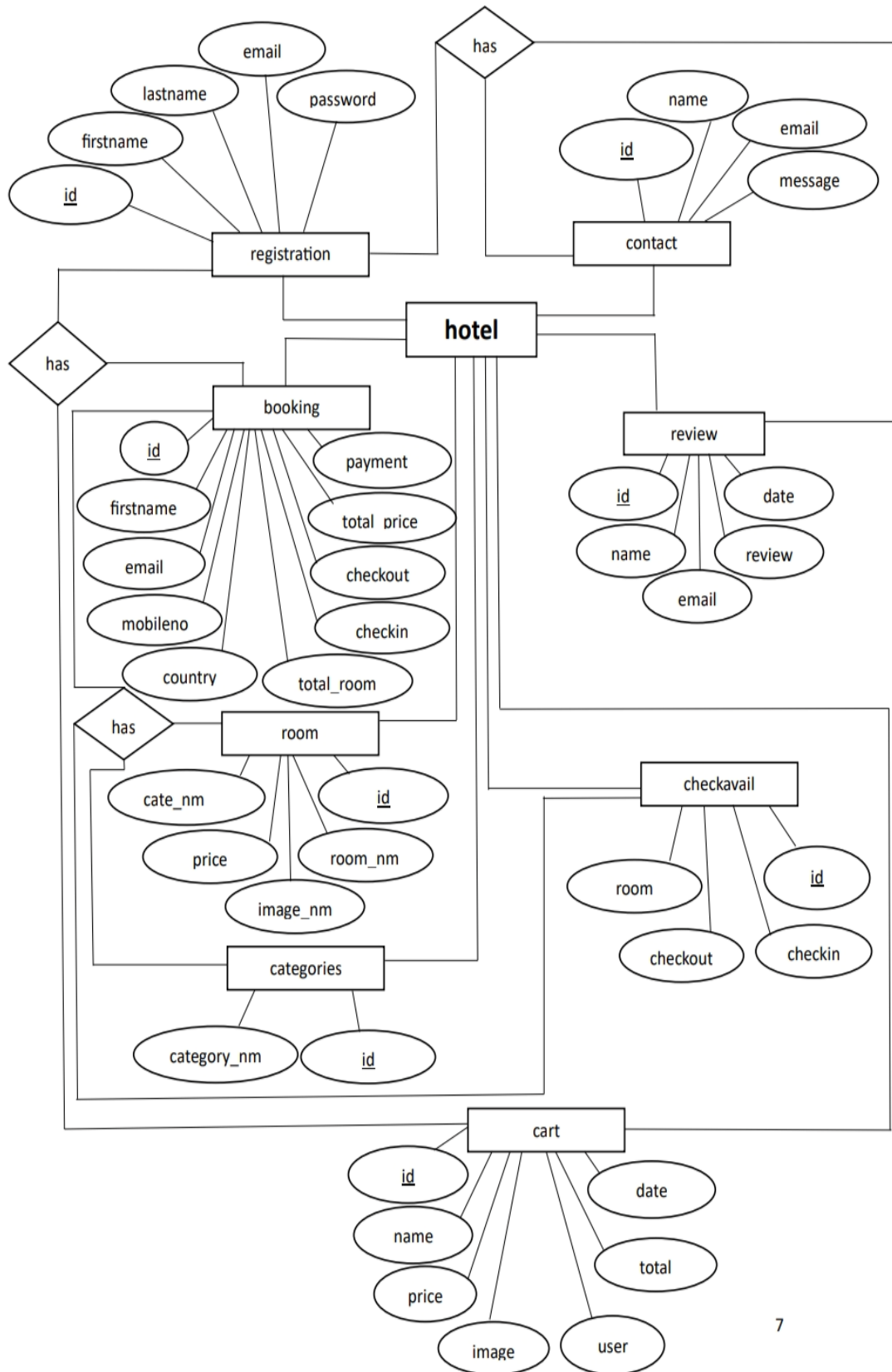
3. Economic Feasibility

- All the necessary hardware and software are available in the market at a low cost.
- Our template is free.
- Does not need any cost in the future.
- Hardware and software are also free.
- Hence it is economically feasible.

4. Time Feasibility

- Time feasibility consists of how much time you take to complete your project.
- Our project will be completed in around 3 months.
- Hence it is timely and feasible.

E-R DIAGRAM



DFD Notations

EXTERNAL ENTITY (TERMINATOR):-



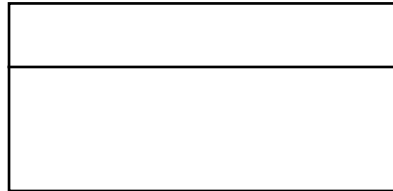
- It represented external entities with which system communicate.
- A terminator can be a person or a group of people.
- They are outside the control of the system that is being model.
- It may also be another system.

DATA STORE:-



- It is used to model a collection of data packets at rest.

PROCESS (PRESENTATION):-



- A process is represented graphically as a circle Rectangle with rounded edge.

DATA FLOW:-

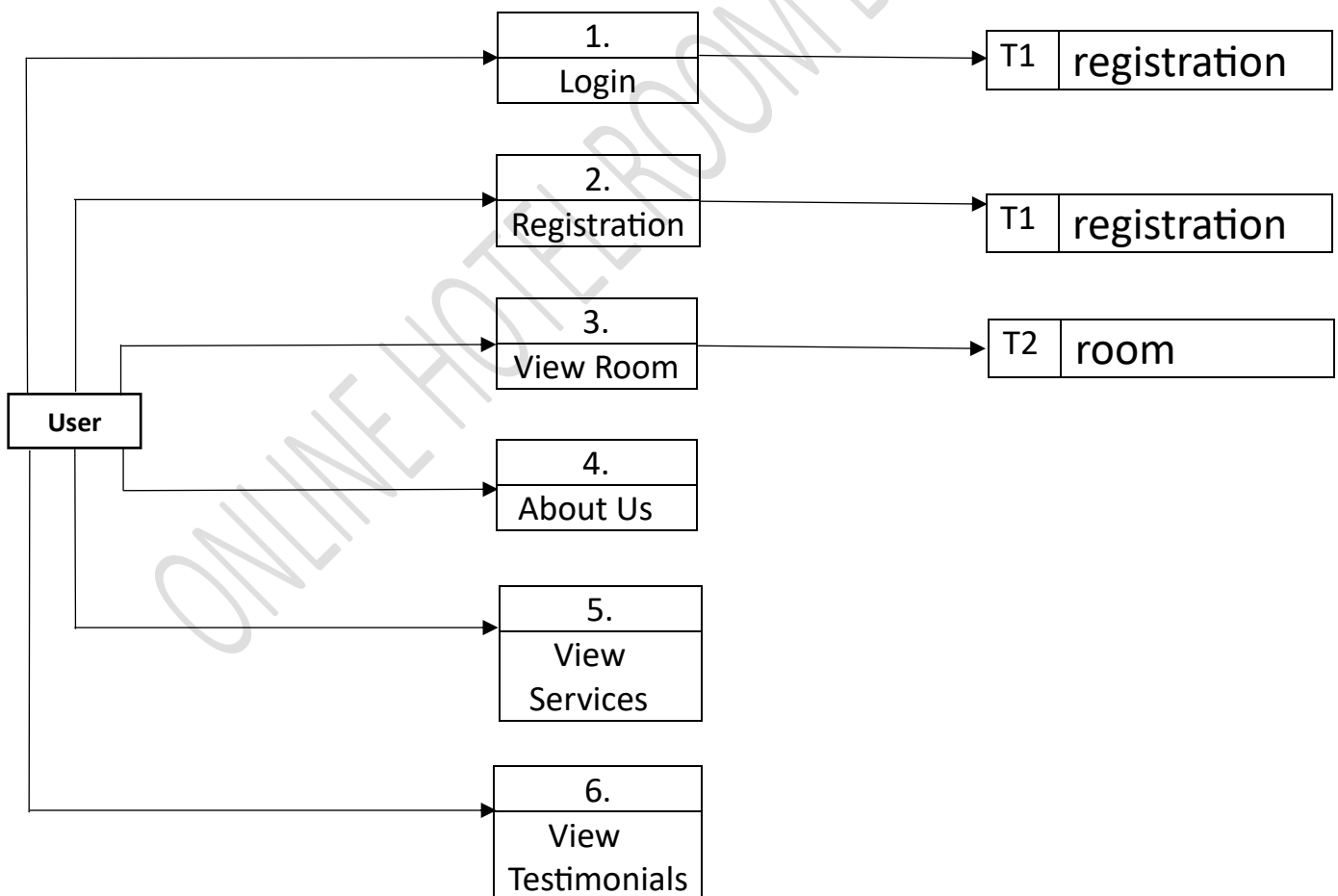


- It is used to describe the more event of data or physical material from one part of the system to another part

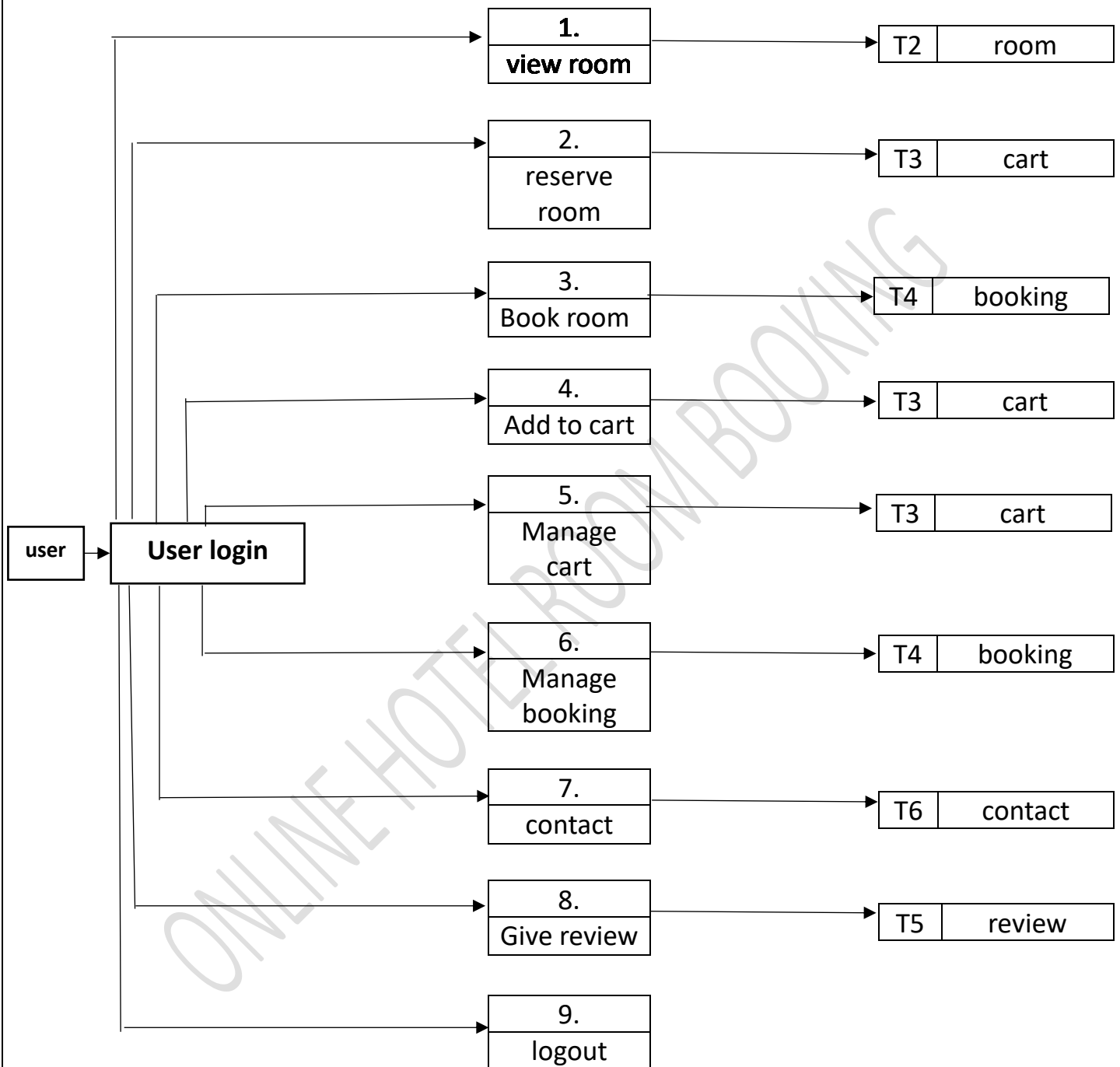
DATA FLOW DIAGRAM



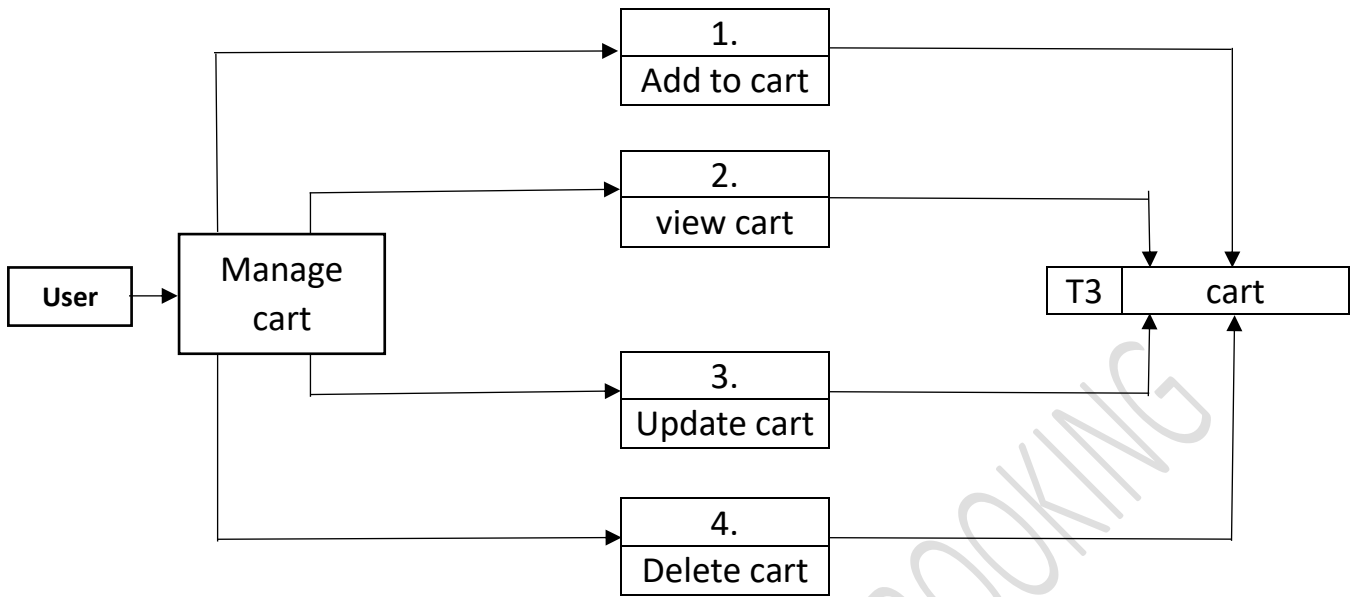
Level 0 : DFD for User Side



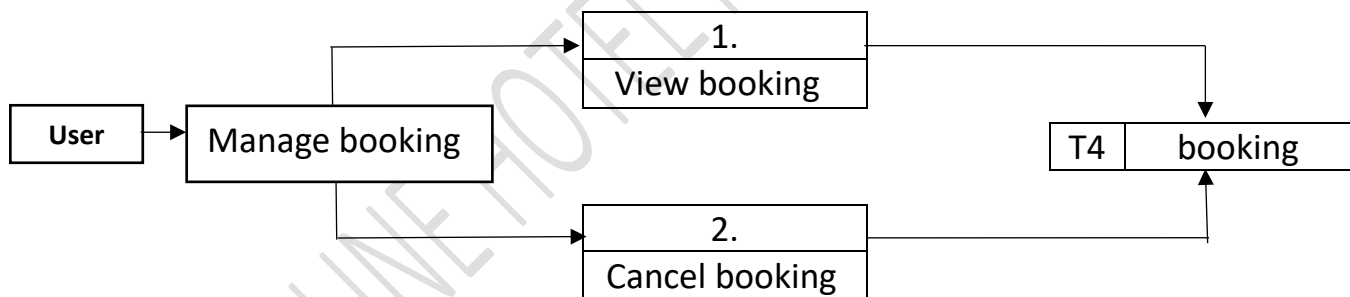
Level 1 : DFD for User Side



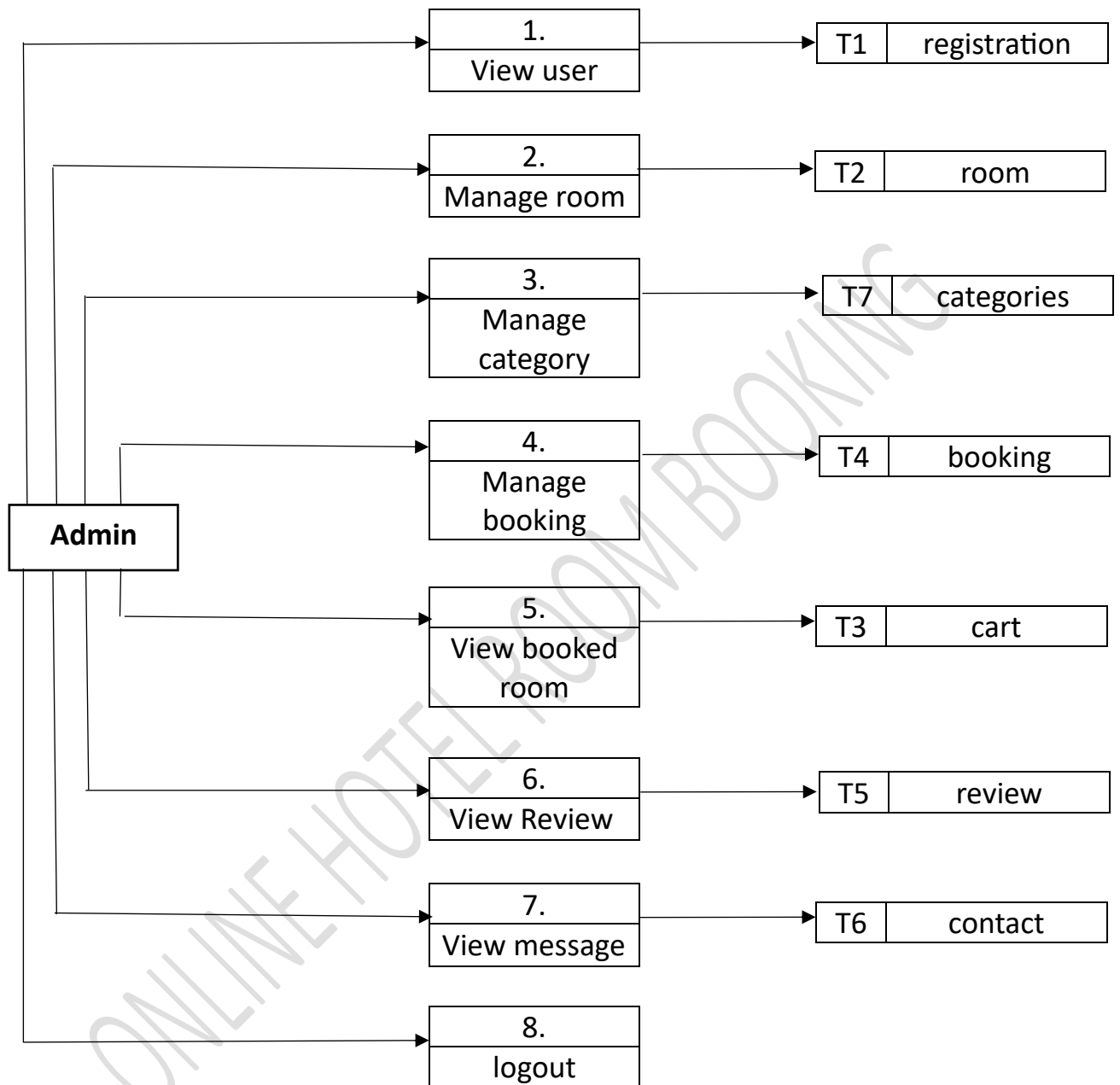
Level 2 : DFD for User Side



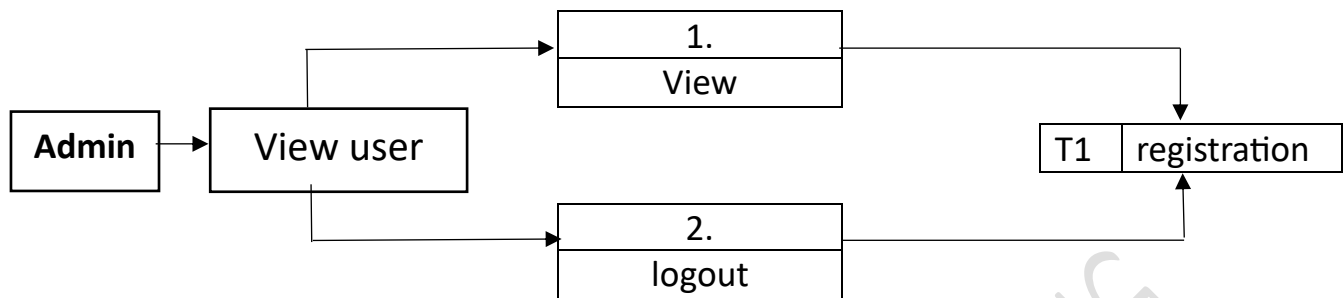
Level 2 : DFD for User Side



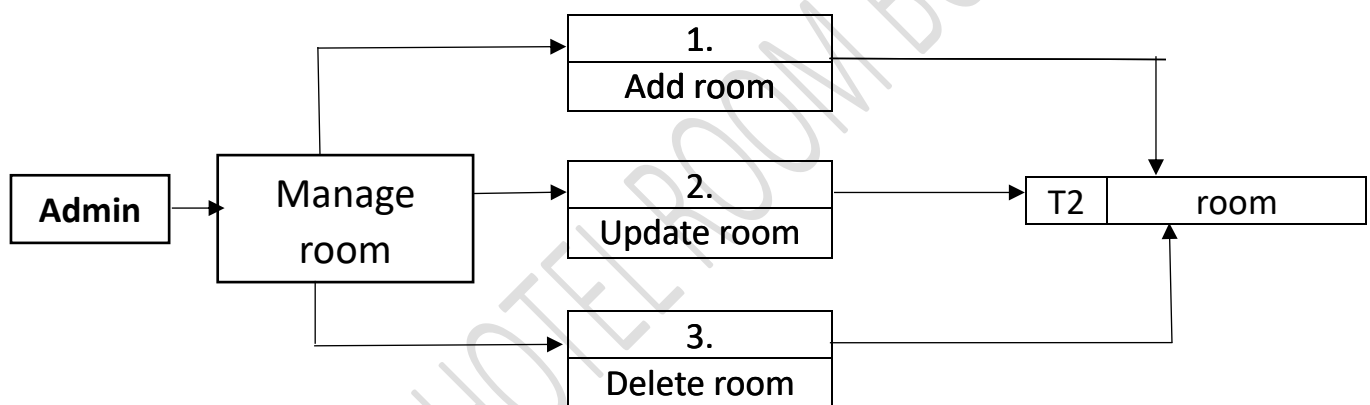
Level 0 : DFD for Admin Side



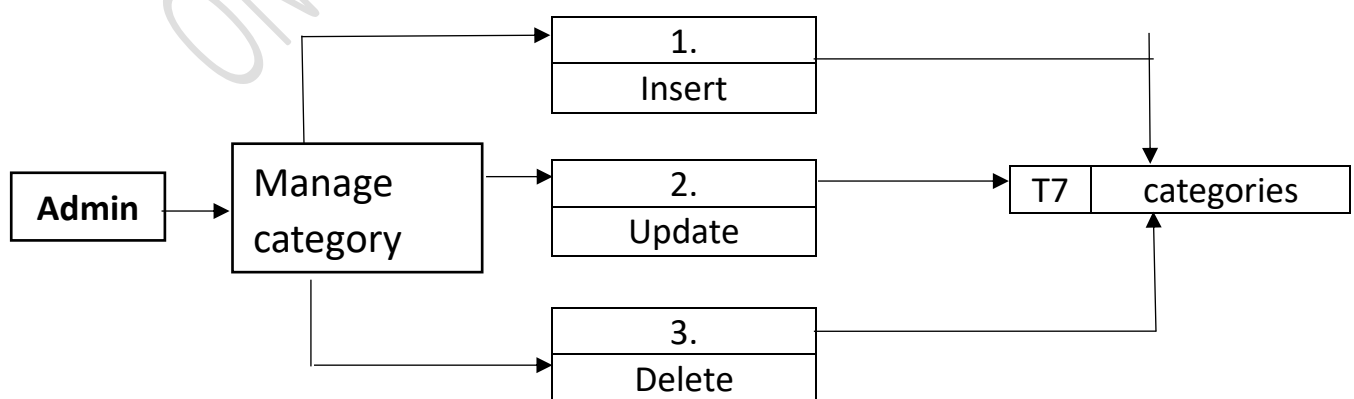
Level 1 : DFD for Admin Side



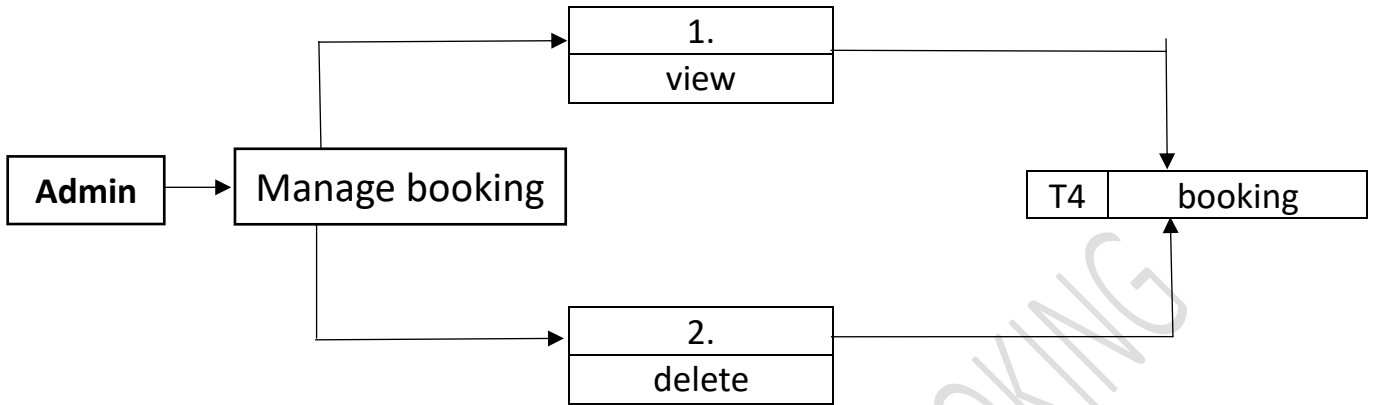
Level 1 : DFD for Admin Side



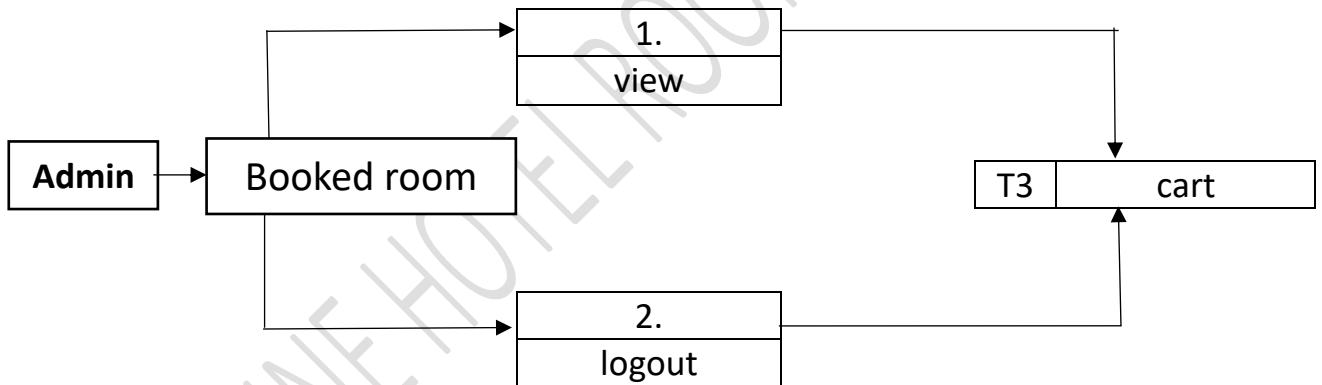
Level 1 : DFD for Admin Side



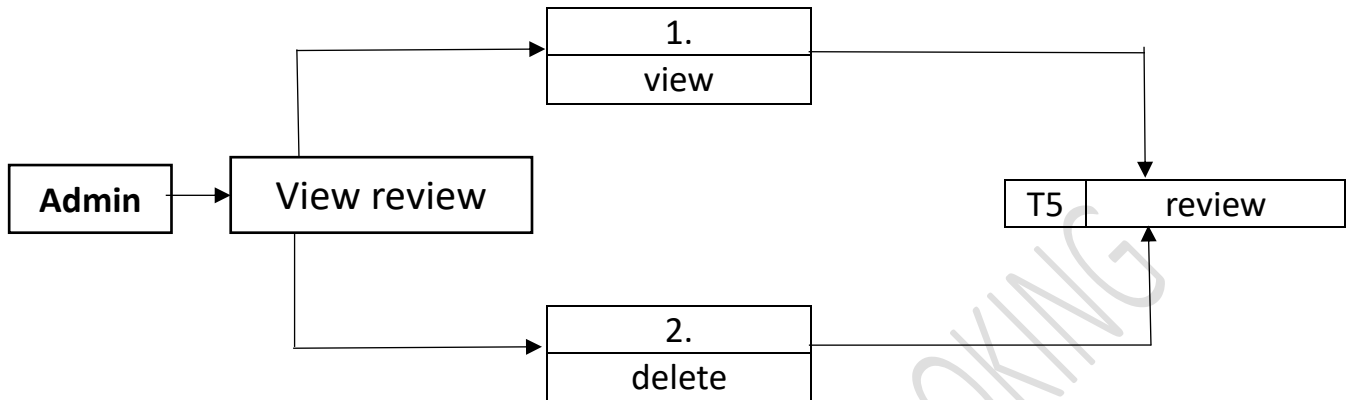
Level 1 : DFD for Admin Side



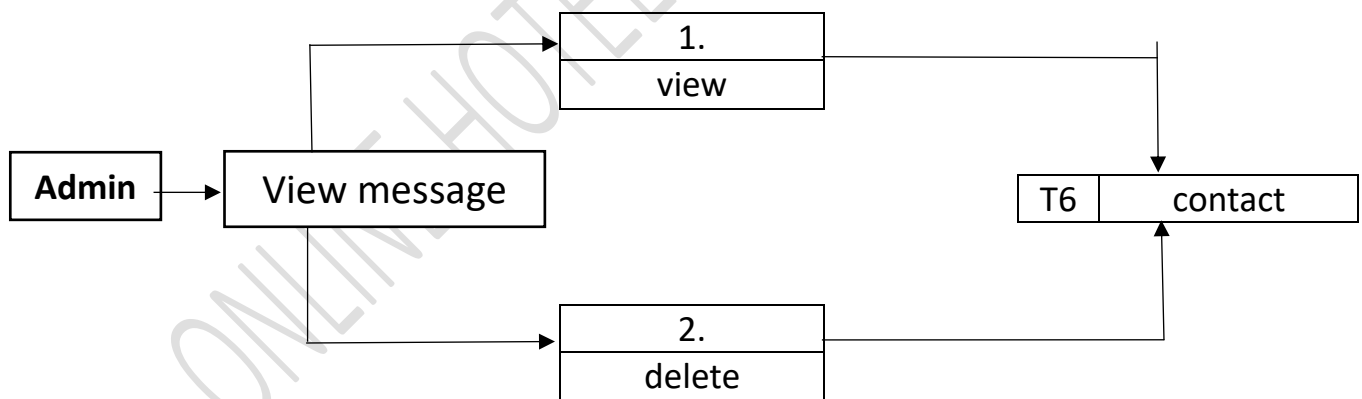
Level 1 : DFD for Admin Side



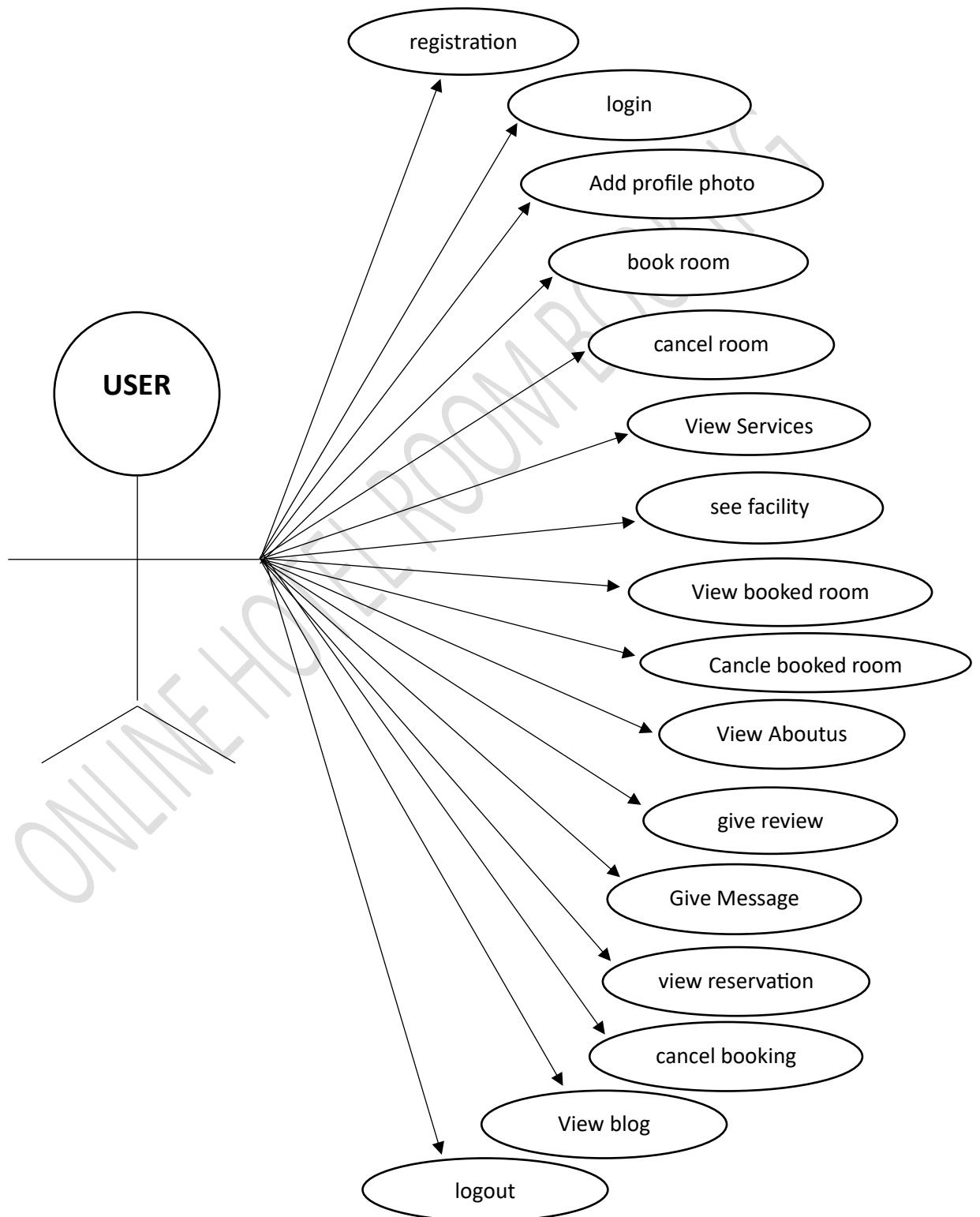
Level 1 : DFD for Admin Side

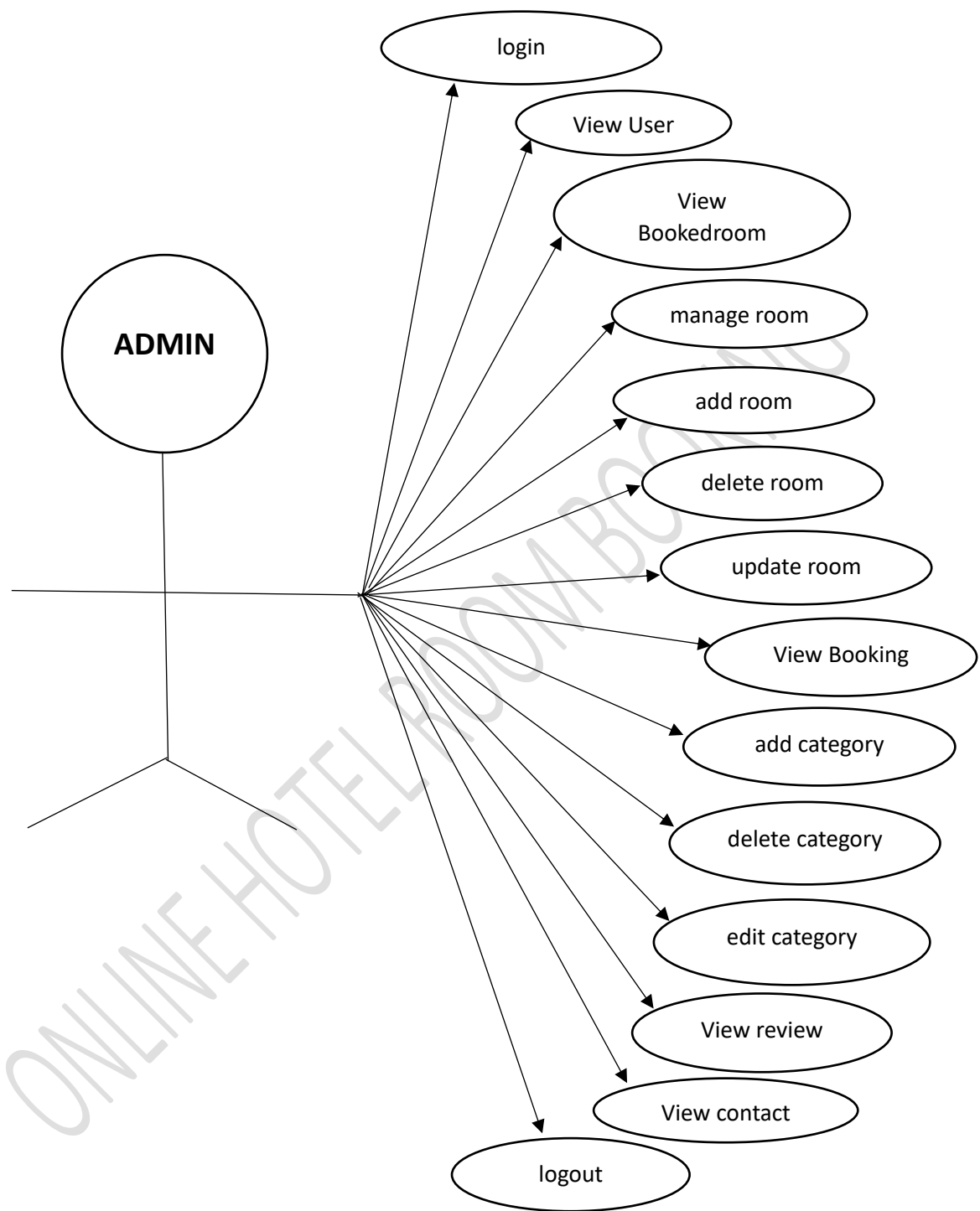


Level 1 : DFD for Admin Side



USECASE

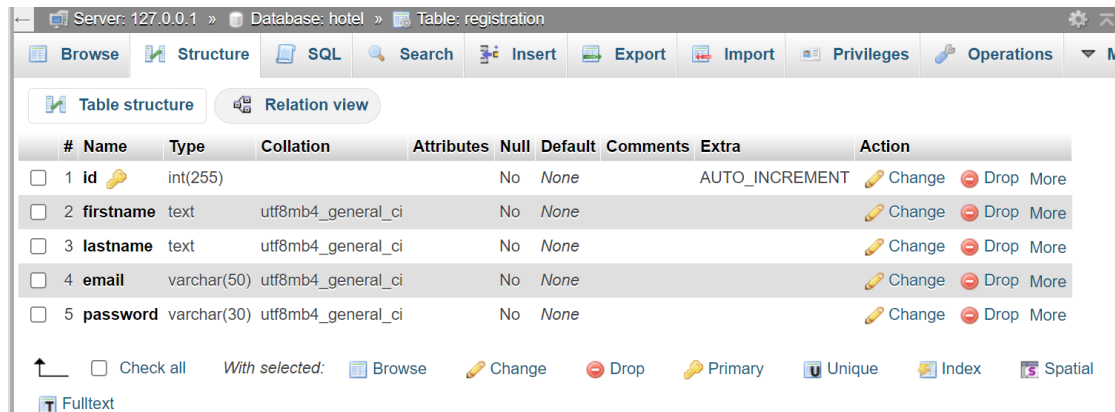




DATA DICTIONARY

DATABASE NAME:- hotel

TABLE NAME:- registration

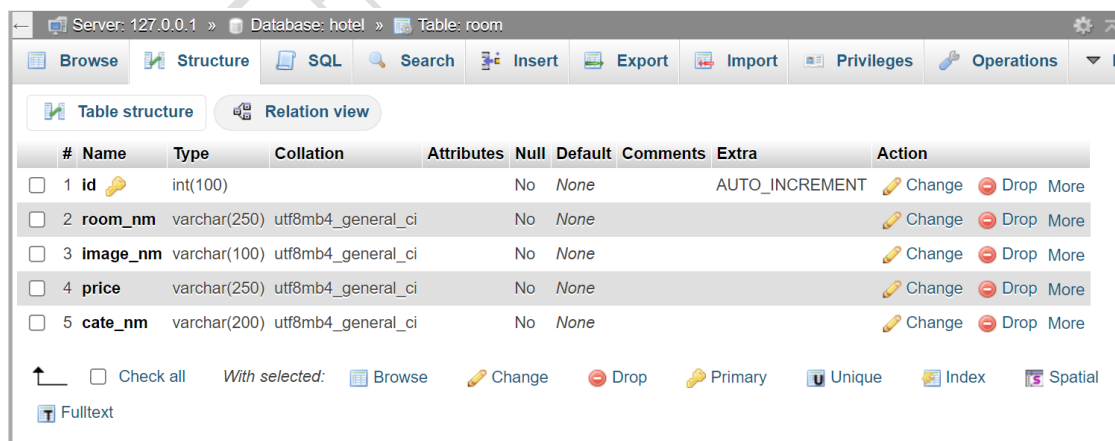


The screenshot shows the 'Table structure' view for the 'registration' table in the 'hotel' database. The table has five columns: 'id' (int(255), primary key, AUTO_INCREMENT), 'firstname' (text), 'lastname' (text), 'email' (varchar(50)), and 'password' (varchar(30)). All columns are of type 'utf8mb4_general_ci' and are not nullable. The interface includes a toolbar with options like 'Browse', 'Structure', 'SQL', 'Search', 'Insert', 'Export', 'Import', 'Privileges', and 'Operations'. Below the table structure, there are checkboxes for 'Check all' and 'With selected:', and buttons for 'Browse', 'Change', 'Drop', 'Primary', 'Unique', 'Index', 'Spatial', and 'Fulltext'.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(255)			No	None		AUTO_INCREMENT	Change Drop More
2	firstname	text	utf8mb4_general_ci		No	None			Change Drop More
3	lastname	text	utf8mb4_general_ci		No	None			Change Drop More
4	email	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
5	password	varchar(30)	utf8mb4_general_ci		No	None			Change Drop More

DESCRIPTION:- Details of all users are been stored in this table.

TABLE NAME:- room

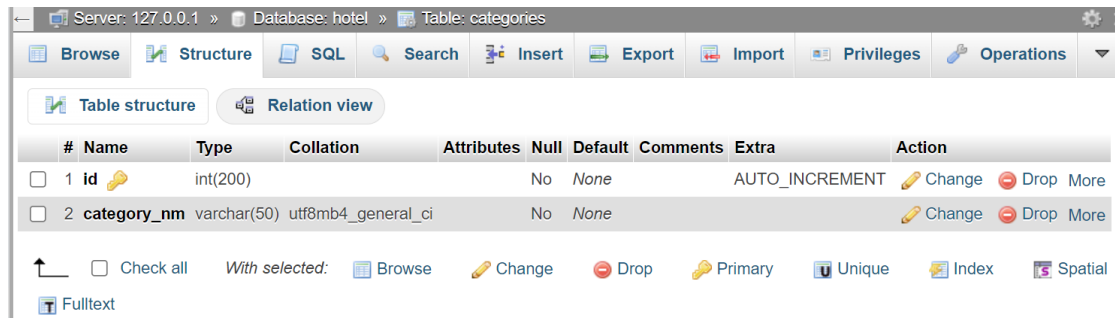


The screenshot shows the 'Table structure' view for the 'room' table in the 'hotel' database. The table has five columns: 'id' (int(100), primary key, AUTO_INCREMENT), 'room_nm' (varchar(250)), 'image_nm' (varchar(100)), 'price' (varchar(250)), and 'cate_nm' (varchar(200)). All columns are of type 'utf8mb4_general_ci' and are not nullable. The interface includes a toolbar with options like 'Browse', 'Structure', 'SQL', 'Search', 'Insert', 'Export', 'Import', 'Privileges', and 'Operations'. Below the table structure, there are checkboxes for 'Check all' and 'With selected:', and buttons for 'Browse', 'Change', 'Drop', 'Primary', 'Unique', 'Index', 'Spatial', and 'Fulltext'.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(100)			No	None		AUTO_INCREMENT	Change Drop More
2	room_nm	varchar(250)	utf8mb4_general_ci		No	None			Change Drop More
3	image_nm	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
4	price	varchar(250)	utf8mb4_general_ci		No	None			Change Drop More
5	cate_nm	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More

DESCRIPTION:- Rooms with details are been stored in this table.

TABLE NAME:- categories

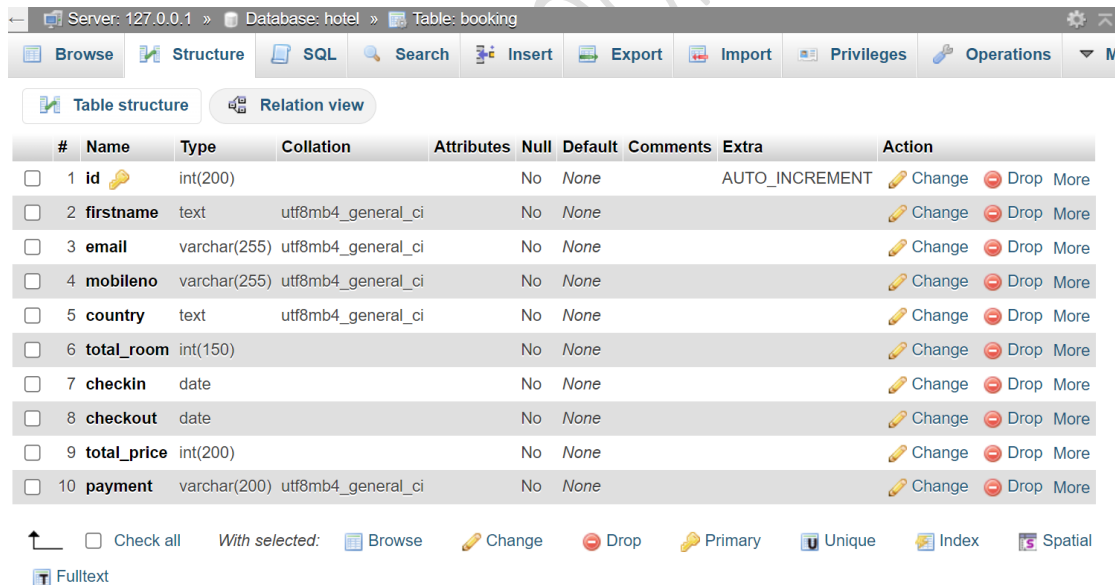


The screenshot shows the 'Table structure' view for the 'categories' table in a database named 'hotel'. The table has two columns: 'id' (int(200), primary key, AUTO_INCREMENT) and 'category_nm' (varchar(50)). The interface includes tabs for Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, and Operations. Below the table structure, there are checkboxes for 'Check all' and 'Fulltext', and a section for 'With selected:' containing icons for Browse, Change, Drop, Primary, Unique, Index, and Spatial.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(200)			No	None		AUTO_INCREMENT	Change Drop More
2	category_nm	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More

DESCRIPTION:- Categories of the rooms with the details are been stored in this table.

TABLE NAME:- booking

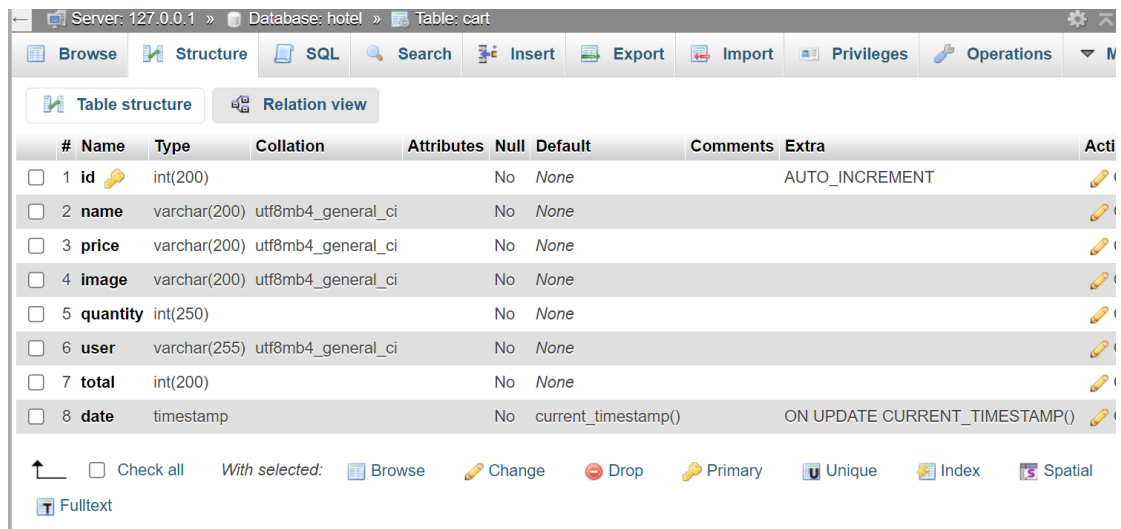


The screenshot shows the 'Table structure' view for the 'booking' table in a database named 'hotel'. The table has ten columns: 'id' (int(200), primary key, AUTO_INCREMENT), 'firstname' (text), 'email' (varchar(255)), 'mobilenno' (varchar(255)), 'country' (text), 'total_room' (int(150)), 'checkin' (date), 'checkout' (date), 'total_price' (int(200)), and 'payment' (varchar(200)). The interface includes tabs for Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, and Operations. Below the table structure, there are checkboxes for 'Check all' and 'Fulltext', and a section for 'With selected:' containing icons for Browse, Change, Drop, Primary, Unique, Index, and Spatial.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(200)			No	None		AUTO_INCREMENT	Change Drop More
2	firstname	text	utf8mb4_general_ci		No	None			Change Drop More
3	email	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
4	mobilenno	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
5	country	text	utf8mb4_general_ci		No	None			Change Drop More
6	total_room	int(150)			No	None			Change Drop More
7	checkin	date			No	None			Change Drop More
8	checkout	date			No	None			Change Drop More
9	total_price	int(200)			No	None			Change Drop More
10	payment	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More

DESCRIPTION:- Reservations made by Users are been stored in this table.

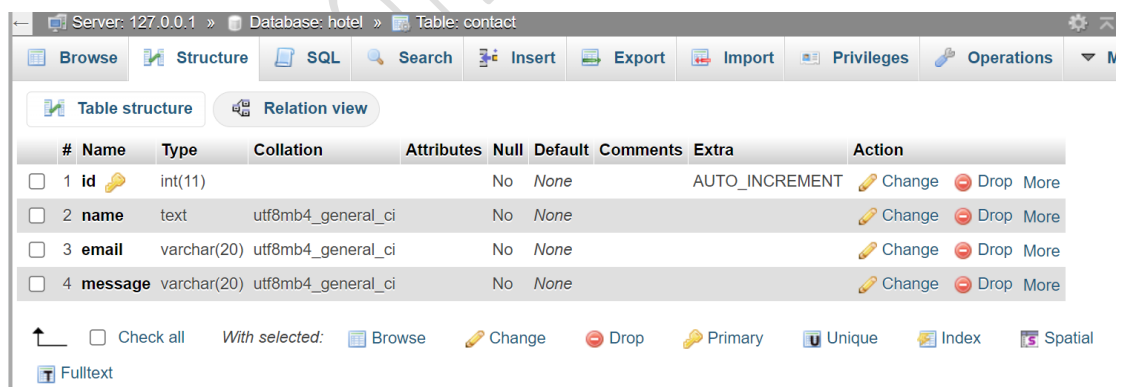
TABLE NAME:- cart



#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(200)			No	None		AUTO_INCREMENT	
2	name	varchar(200)	utf8mb4_general_ci		No	None			
3	price	varchar(200)	utf8mb4_general_ci		No	None			
4	image	varchar(200)	utf8mb4_general_ci		No	None			
5	quantity	int(250)			No	None			
6	user	varchar(255)	utf8mb4_general_ci		No	None			
7	total	int(200)			No	None			
8	date	timestamp			No	current_timestamp()		ON UPDATE CURRENT_TIMESTAMP()	

DESCRIPTION:- User's room booked details are been stored in this table.

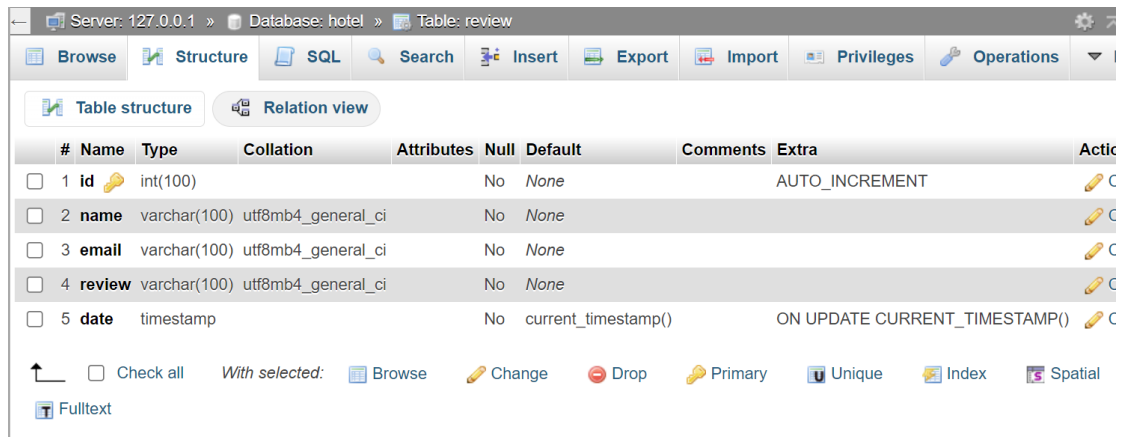
TABLE NAME:- contact



#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	name	text	utf8mb4_general_ci		No	None			Change Drop More
3	email	varchar(20)	utf8mb4_general_ci		No	None			Change Drop More
4	message	varchar(20)	utf8mb4_general_ci		No	None			Change Drop More

DESCRIPTION:- Users' queries are been stored in this table.

TABLE NAME:- review



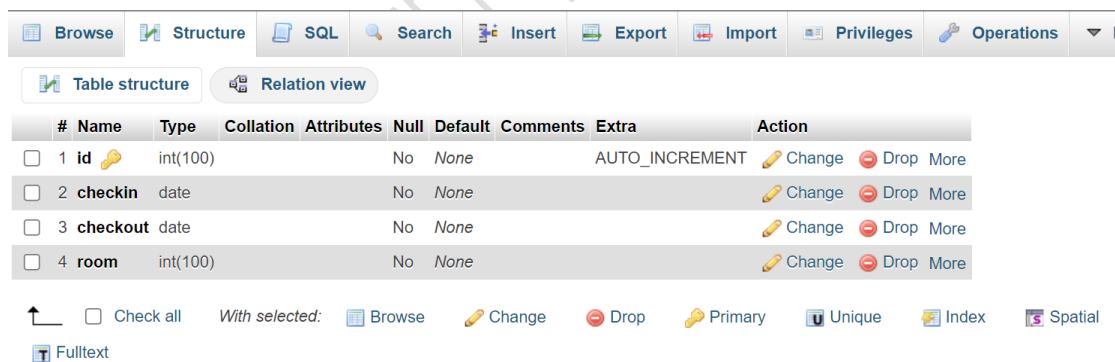
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 id	int(100)			No	None		AUTO_INCREMENT	C
<input type="checkbox"/>	2 name	varchar(100)	utf8mb4_general_ci		No	None			C
<input type="checkbox"/>	3 email	varchar(100)	utf8mb4_general_ci		No	None			C
<input type="checkbox"/>	4 review	varchar(100)	utf8mb4_general_ci		No	None			C
<input type="checkbox"/>	5 date	timestamp			No	current_timestamp()		ON UPDATE CURRENT_TIMESTAMP()	C

☐ Check all With selected: Browse Change Drop Primary Unique Index Spatial

Fulltext

DESCRIPTION:- Users reviews and messages are been stored in this table.

TABLE NAME:- checkavail



#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 id	int(100)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2 checkin	date			No	None			Change Drop More
<input type="checkbox"/>	3 checkout	date			No	None			Change Drop More
<input type="checkbox"/>	4 room	int(100)			No	None			Change Drop More

☐ Check all With selected: Browse Change Drop Primary Unique Index Spatial

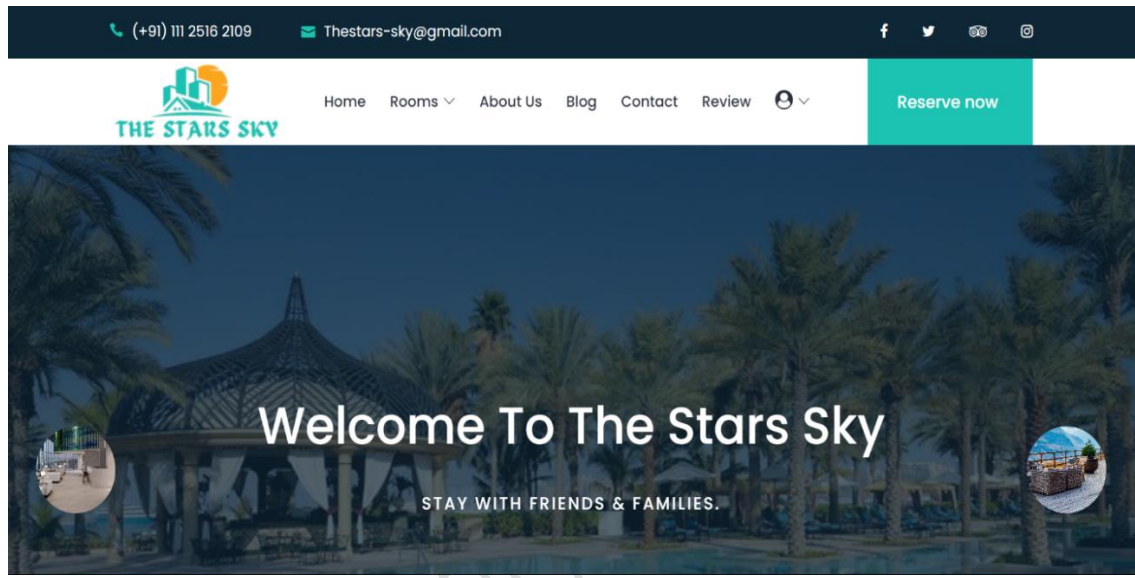
Fulltext

DESCRIPTION:- User's check available rooms date are been stored in this table.

SCREEN LAYOUT

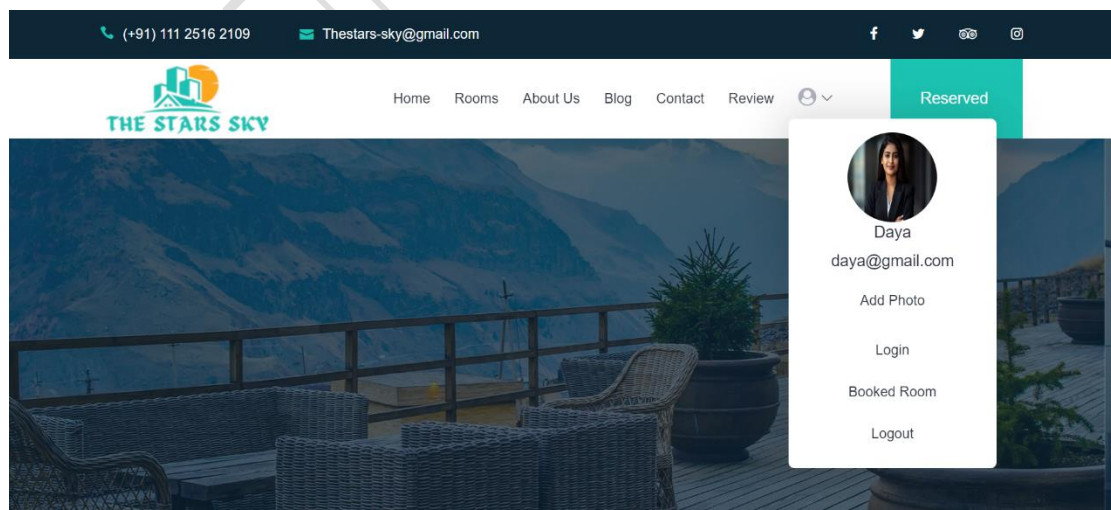
User Side

1.HOME PAGE:



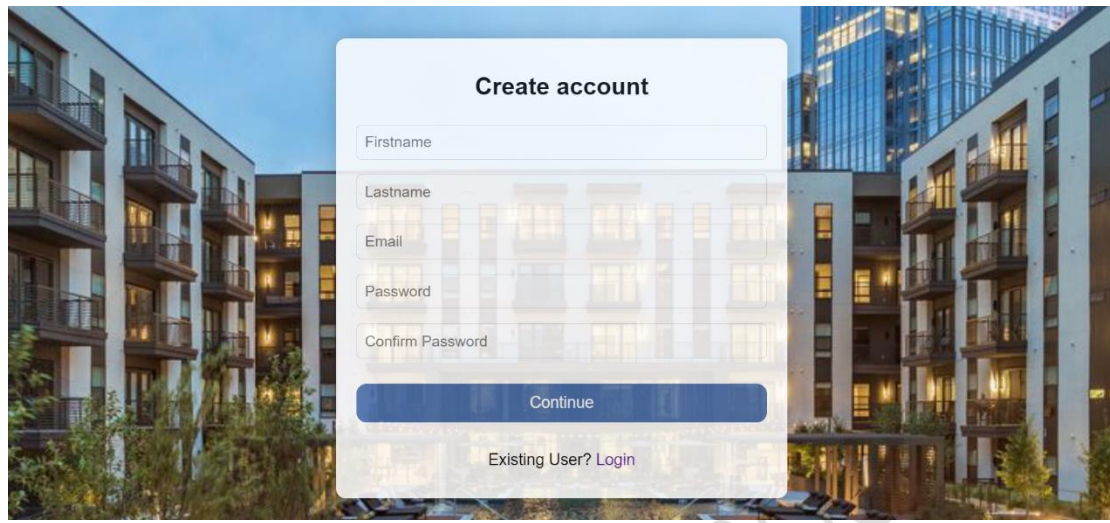
DESCRIPTION:- When Users visit this site before login, this page is viewed.

2.HOME PAGE:



DESCRIPTION:- When Users visits the site after login, this page will appear with a user name and email.

3.REGISTRATION PAGE:

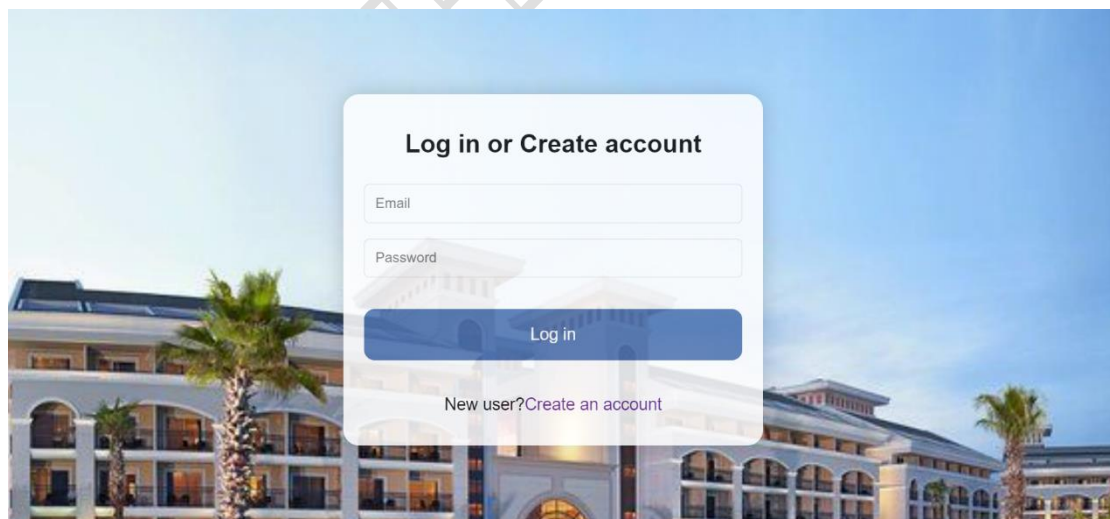


The registration form is titled "Create account" and is overlaid on a background image of a modern apartment building at dusk. The form contains the following fields and elements:

- Firstname
- Lastname
- Email
- Password
- Confirm Password
- Continue (button)
- Existing User? [Login](#)

DESCRIPTION:- Users who visit our site for the first time, need to register themselves. And to register, they need to fill the details asked in the page displayed.

4.LOGIN PAGE:

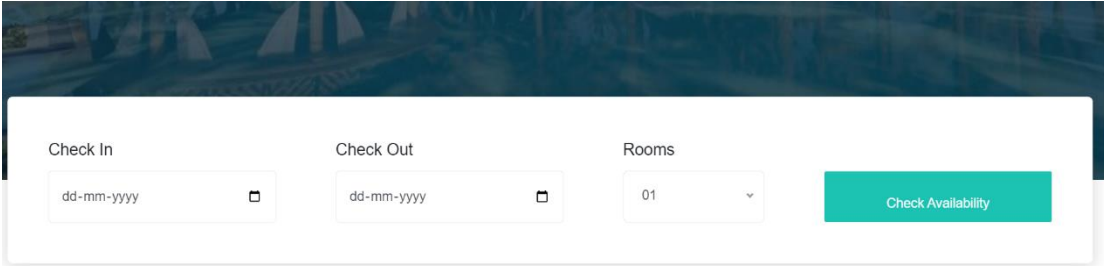


The login form is titled "Log in or Create account" and is overlaid on a background image of a building with palm trees. The form contains the following fields and elements:

- Email
- Password
- Log in (button)
- New user? [Create an account](#)

DESCRIPTION: - Admin and users can login through this single form.

5.CHECK AVAILABILITY PAGE:

A screenshot of a 'Check Availability' form. It features three input fields: 'Check In' with a placeholder 'dd-mm-yyyy' and a calendar icon, 'Check Out' with a placeholder 'dd-mm-yyyy' and a calendar icon, and 'Rooms' with a value of '01' and a dropdown arrow. To the right of these fields is a teal button labeled 'Check Availability'. The form is set against a background image of a hotel lobby.

DESCRIPTION:- Users can check available room in this page.

6.TESTIMONIALS PAGE:



TESTIMONIALS

Our Guests Love Us

"Nice budget hotel with safety and awesome room in good price. I busted this place as per my friend recommendations. And I was afraid about budget hotels before I used Starsky Rooms first time. I am writing a lot. Only one word. Awesome concept for regular travellers. And it's really amazing when I get free Wi-Fi and free breakfast with fully furnished AC rooms, completely hygienic and quite awesome rooms."



Divya Suryadevara - GMS CEO

DESCRIPTION:- Our user's reviews are shown in this page.

7. ABOUT US:

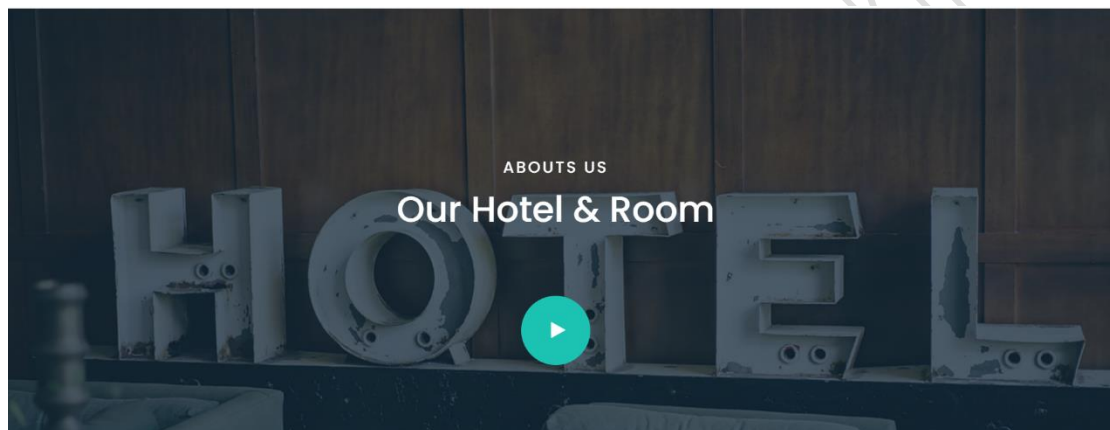


TESTIMONIALS

20 Years Of Experience

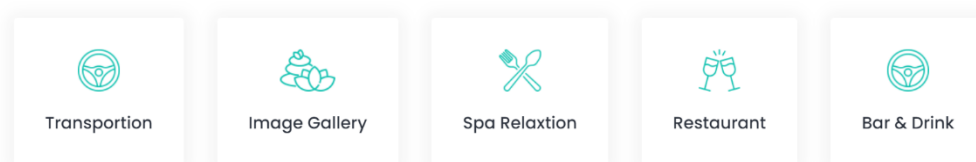
Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. Sed ut perspiciatis unde omnis iste.

Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. Sed ut perspiciatis unde omnis iste. Lorem Ipsum available.



DESCRIPTION: - Through this page Users can get details and information of our Hotel easily.

8.SERVICES PAGE:



DESCRIPTION: - Through this page Users can get our services information.

9. ROOMS PAGE:



Premium King Room

45999 ₹ / Day

Size:

38 ft

Capacity:

Max person 5

Bed:

King beds

Services:

Wifi, television ...

[Book Now](#)



Luxury Twin Room

35500 ₹ / Day

Size:

32 ft

Capacity:

Max person 2

Bed:

Twin beds

Services:

Wifi, television ...

[Book Now](#)

DESCRIPTION: All Users logged in as well as not logged in can view our rooms through this page and unless the user doesn't login, they cannot add room to cart.

10.CONTACT US PAGE:

CONTACT US

Leave Message

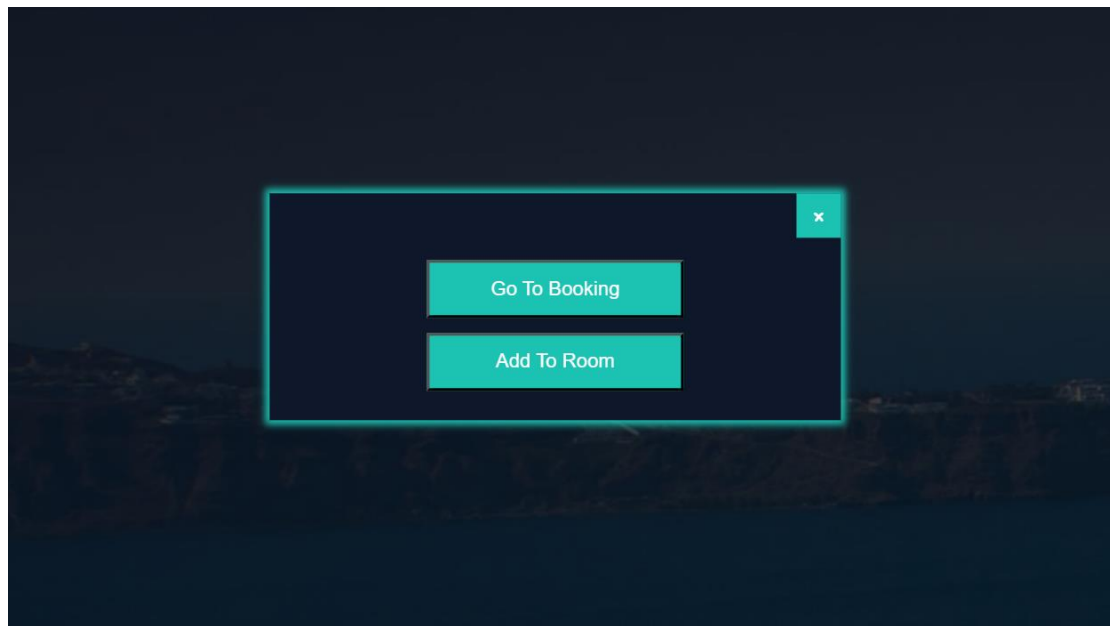
DESCRIPTION: - Any customer having query about the site can contact admin through this page by submitting their query.

11.REVIEW PAGE:

Give Review

DESCRIPTION: - Review can be sent by customer through this page.

12. VIEW SELECTION:



DESCRIPTION: -Users are allowed to select which page they want to see after adding room to cart i.e. they can view cart or room as per their need.

13. CART:

Billing

	IMAGE	NAME	PRICE	TOTAL
		Queen Room	Rs.50,250	Rs. 50250
		Twin Room	Rs.20,660	Rs. 20660
		Room Vip King	Rs.42,590	Rs. 42590
		Luxury Twin Room	Rs.35,500	Rs. 35500

FINAL AMOUNT

Total Rooms:4

Total Price:Rs. 149000

Total Amount (including all taxes & charges)Rs. 149000

Go to checkout

Can You Want To Add Room? !!!

DESCRIPTION: - Users can view the rooms that they added to cart and can add or remove the rooms through this page.

14. BOOKING :

BOOK YOUR ROOM

Full Name
Enter Your Name

Email
daya@gmail.com

Mobile No
Enter Mobile No

Country
Enter Country name

Total Room
3

Check-In-Date
dd-mm-yyyy

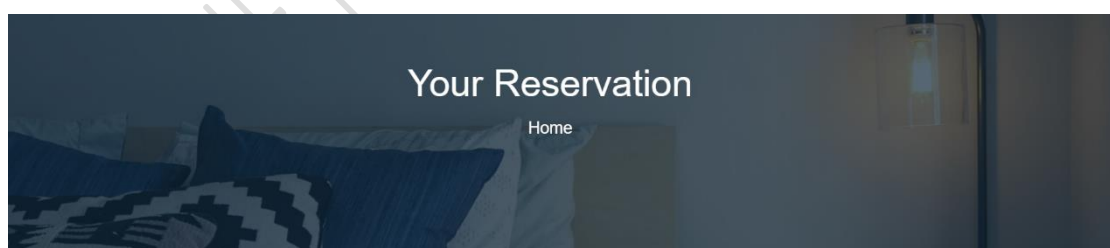
Check-Out-Date
dd-mm-yyyy

PayMent UPI

Book Now

DESCRIPTION: - To complete the process of booked room the user has to fill out the details asked in this page and can confirm their Booking.

15.RESERVE NOW:

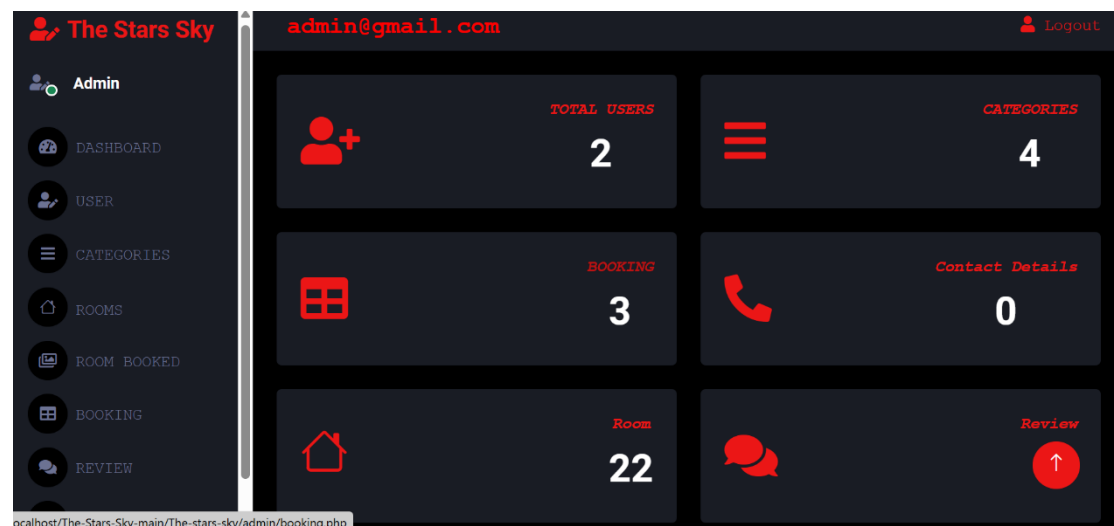


Name	Email	Mobile No	Country	Total Room	Check-In	Check-out	Total Price	Payment	Action
Daya	daya@gmail.com	9922114567	India	3	2024-10-01	2024-10-04	329730	Cash Payment	CANCEL

DESCRIPTION:- User can view as well as cancel their reservation through this page.

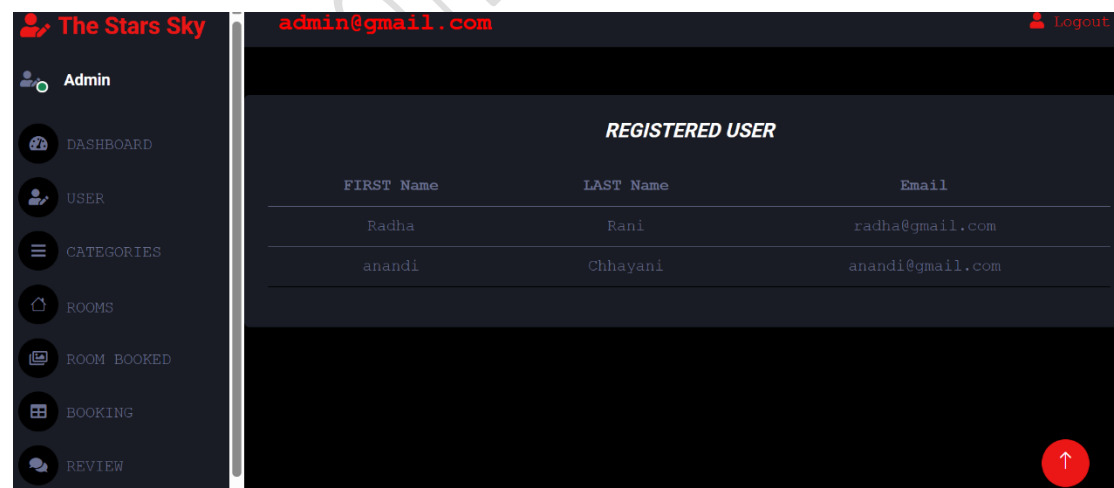
Admin Side

1.ADMIN HOME PAGE:



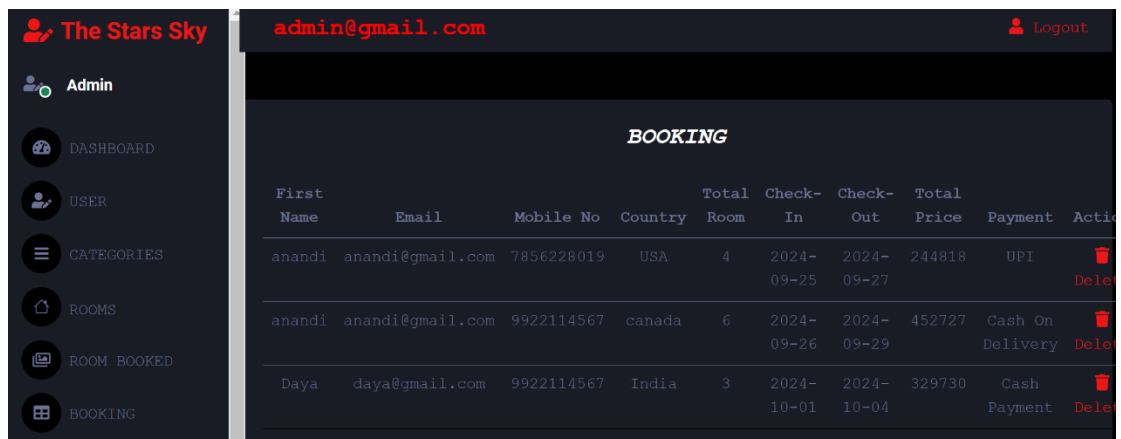
DESCRIPTION: - After admin gets logged in this page is viewed.

2.USERS:



DESCRIPTION: - Admin can view all the registered users here.

3.RESERVATIONS:

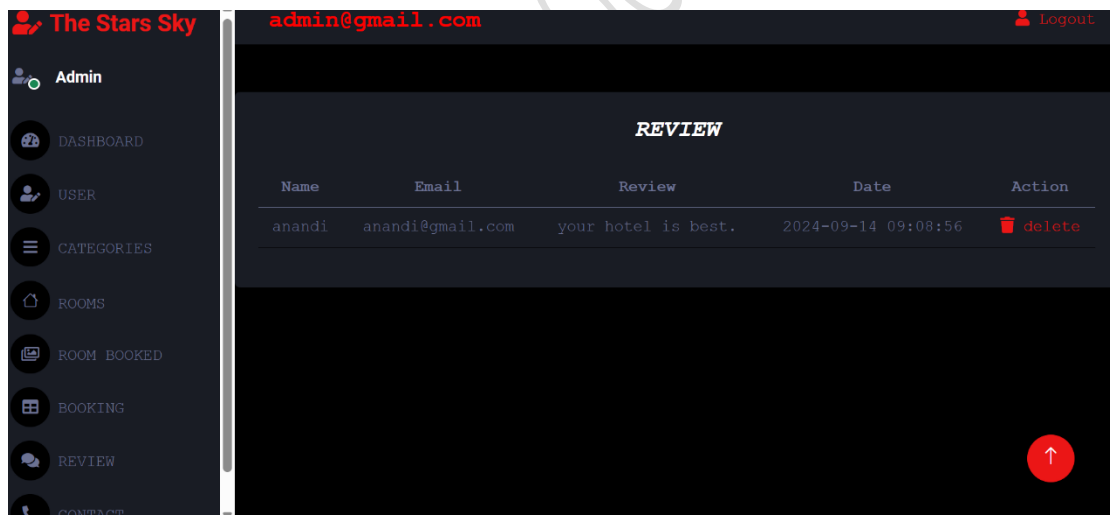


The screenshot shows the Admin Dashboard for 'The Stars Sky' with the user 'admin@gmail.com'. The 'BOOKING' table displays reservation details for three entries. The table has columns for First Name, Email, Mobile No, Country, Total Room, Check-In, Check-Out, Total Price, Payment, and Action.

First Name	Email	Mobile No	Country	Total Room	Check-In	Check-Out	Total Price	Payment	Action
anandi	anandi@gmail.com	7856228019	USA	4	2024-09-25	2024-09-27	244818	UPI	Delete
anandi	anandi@gmail.com	9922114567	canada	6	2024-09-26	2024-09-29	452727	Cash On Delivery	Delete
Daya	daya@gmail.com	9922114567	India	3	2024-10-01	2024-10-04	329730	Cash Payment	Delete

DESCRIPTION: - All the reservations are displayed to admin through this page.

4.REVIEWS:

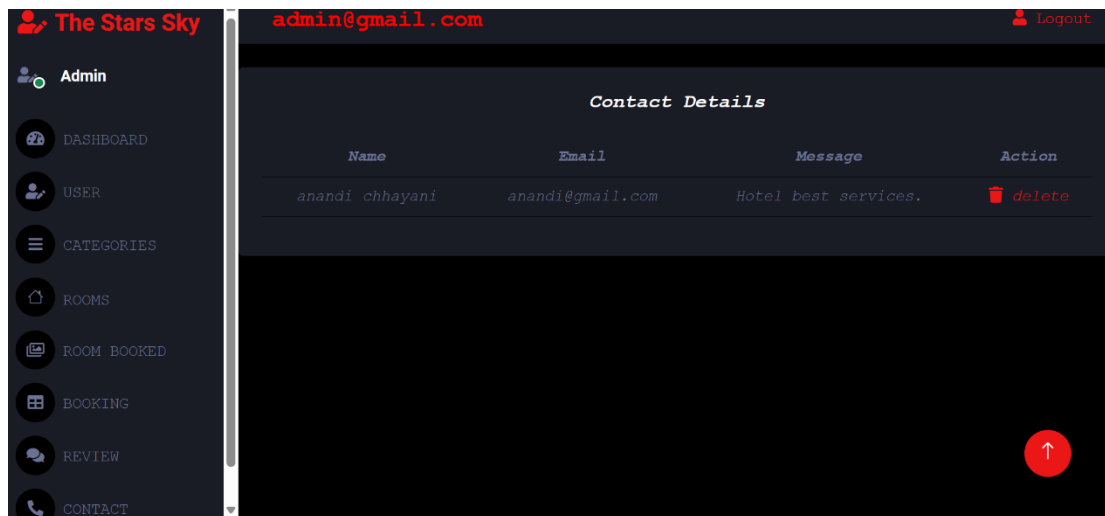


The screenshot shows the Admin Dashboard for 'The Stars Sky' with the user 'admin@gmail.com'. The 'REVIEW' table displays a single review entry. The table has columns for Name, Email, Review, Date, and Action.

Name	Email	Review	Date	Action
anandi	anandi@gmail.com	your hotel is best.	2024-09-14 09:08:56	delete

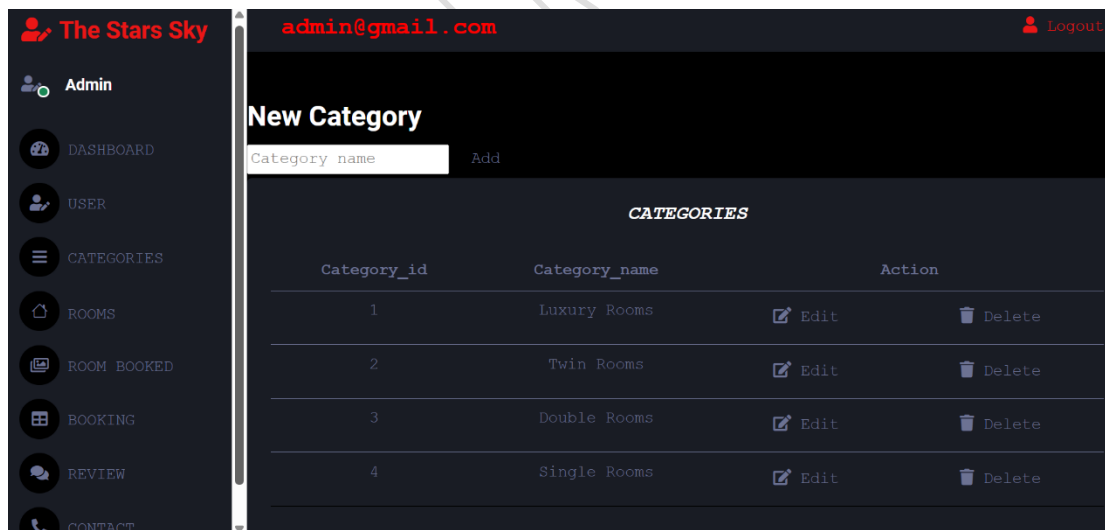
DESCRIPTION: - Admin can view all the Reviews through this page.

5.Contact Details:



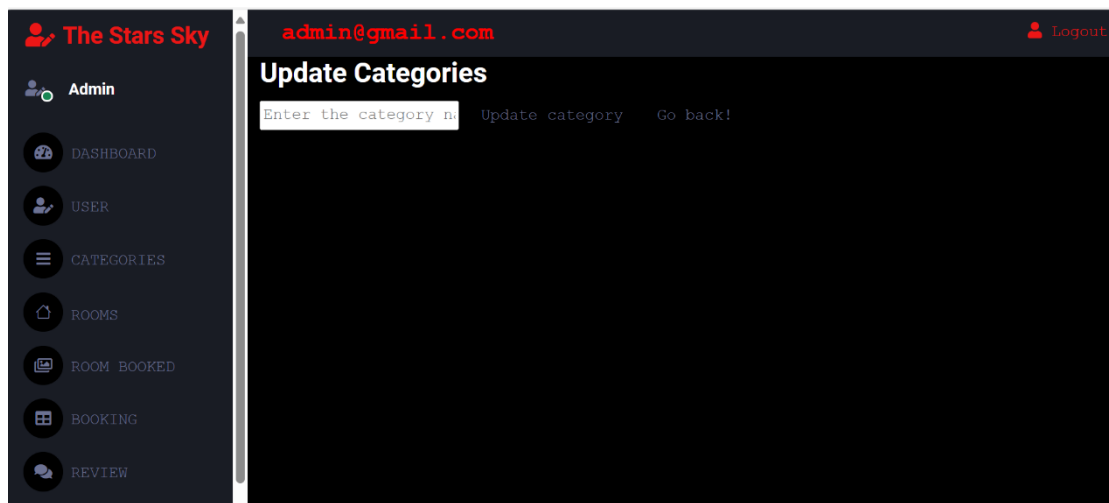
DESCRIPTION: - All the queries submitted is displayed to admin through this page.

6.CATEGORIES:



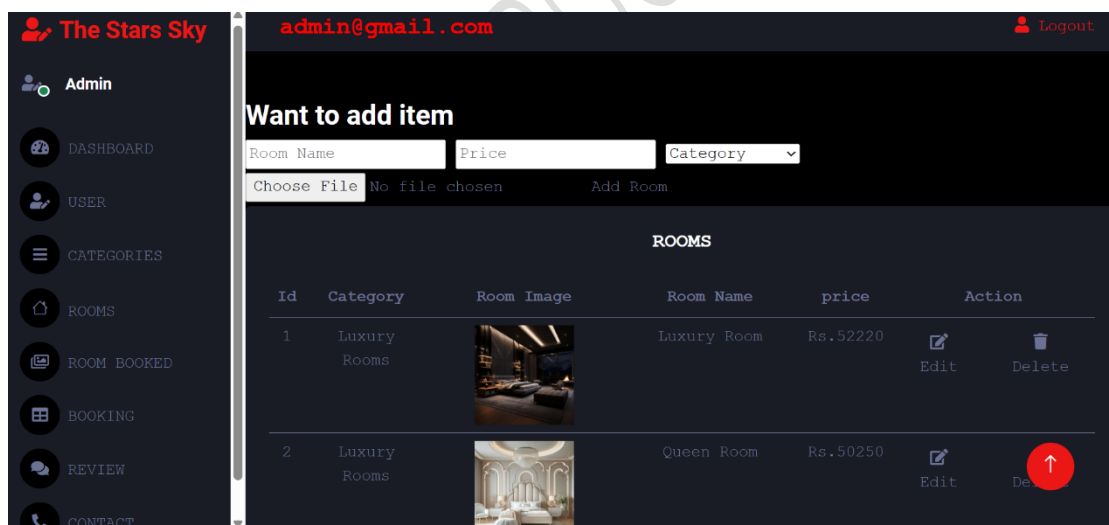
DESCRIPTION: - Admin can view, add or remove categories through this page.

7.UPDATE CATEGORIES:



DESCRIPTION: - Admin can also update categories through this page.

8.ROOMS:



DESCRIPTION: - Admin can view, add or delete room through this page.

9. UPDATE ROOM:



The screenshot displays the 'Update The Room' interface. On the left is a dark sidebar with the logo 'The Stars Sky' and a list of navigation items: Admin, DASHBOARD, USER, CATEGORIES, ROOMS, ROOM BOOKED, and BOOKING. The main area has a top header with the email 'admin@gmail.com' and a 'Logout' link. The title 'Update The Room' is centered. Below it, a form contains two input fields: the first has 'Luxury Room' and the second has '52220'. To the right of these fields is a 'Choose File' button and the text 'No file chosen'. At the bottom of the form, there are two links: 'Room Update' and 'go back!'.

DESCRIPTION: - Admin can update room through this page.

TEST CASE

TEST CASE ID	TEST CASE NAME	TEST CASE DESCRIPTION	VALIDATION MESSAGE	YOUR OUTPUT
Registration_1	Name	Required Field Validation	Please fill out this field.	True
Registration_2	Name	Regular Expression	Required pattern="[A-Za-z\s]+" .	True
Registration_3	Email	Required Field Validation	Please fill out this field.	True
Registration_4	Email	Regular Expression	Required pattern [a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}\$	True
Registration_5	Password	Required Field Validation	Please fill out this field.	True
Registration_6	Password	Regular Expression	Maximum Length must be 10.	True
Registration_7	Confirm Password	Required Field Validation	Please fill out this field	True
Registration_8	Confirm Password	Compare Validation	Password doesn't match.	True
Booking_1	Name	Required Field Validation	Please Fill out this fields.	True
Booking_2	Name	Regular Expression	Required pattern [A-Za-z\s]+" .	True
Booking_3	Date	Required Field Validation	Please fill out this field.	True

Booking_4	Date	Regular Expression	Check-Out-Date must be after Check-In-Date.	True
Booking_5	Mobile number	Required Field Validation	Please fill out this field.	True
Booking_6	Mobile number	Regular Expression	Number must Max length 10 digits.	True
Booking_7	Country	Required Field Validation	Country name must be at least 2 characters long.	True
Contact_1	Email	Required Pattern Validation	Required pattern [a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}\$.	True
Contact_2	Subject	Required Field Validation	Please fill out this field.	True
Contact_3	Message	Required Field Validation	Please fill out this field.	True
Review_1	Name	Required Field Validation	Please fill out this field.	True
Review_2	Email	Required Pattern Validation	Required pattern [a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}\$.	True
Review_3	Experience	Required Field Validation	Please fill out this field.	True
Check Availability_1	Date	Required Field Validation	Check-Out-Date must be after Check-In-Date.	True

GANTT CHART

No.	Gantt Chart	June		July		August				September	
		27/6	2/7	12/7	27/7	15/8	30/8	15/9	22/9	29/9	5/10
1.	Requirement Gathering										
2.	Analysis										
3.	Designing										
4.	Coding										
5.	Testing										
6.	Implementation										
7.	Report										

LIMITATIONS

- For now, we have not accepted all online payments methods.
- Our website the admin must manually free booked rooms, as the process is not automated.

FUTURE SCOPE

- Make system more users friendly.
- We will accept all type online payment methods.
- In the future, we will allow our customers to avail of additional services, such as transportation, spa and relaxation, bar and drinks, and restaurant services, online through our website.

BIBLIOGRAPHY

BOOKS:

- Web Developing Using PHP

WEBSITES:

- www.w3schools.com
- www.geeksforgeeks.org

ONLINE HOTEL ROOM BOOKING

WORK EXPERIENCE

Our project guide **Miss. Radhika Raghani** provided full support to us. She always helped us just like a companion and not just as professional guide; she also provides the information required by us at any time.

She personally worked hard for our project. Also, the other faculty members related to the computer department never refused to help us. Also, the institute has provided the immense help by leap and bounds.

We also learnt some designing techniques; so, we heartily thankful to all who helped us in gradually climbing the steps towards the completion of this project of Online Hotel Room Booking system. Thank you, all faculty members, giving us such a great opportunity.

Last but not the least the overall experience of developing this project is as good as studying an entire new subject to feeling up the knowledge treasure.