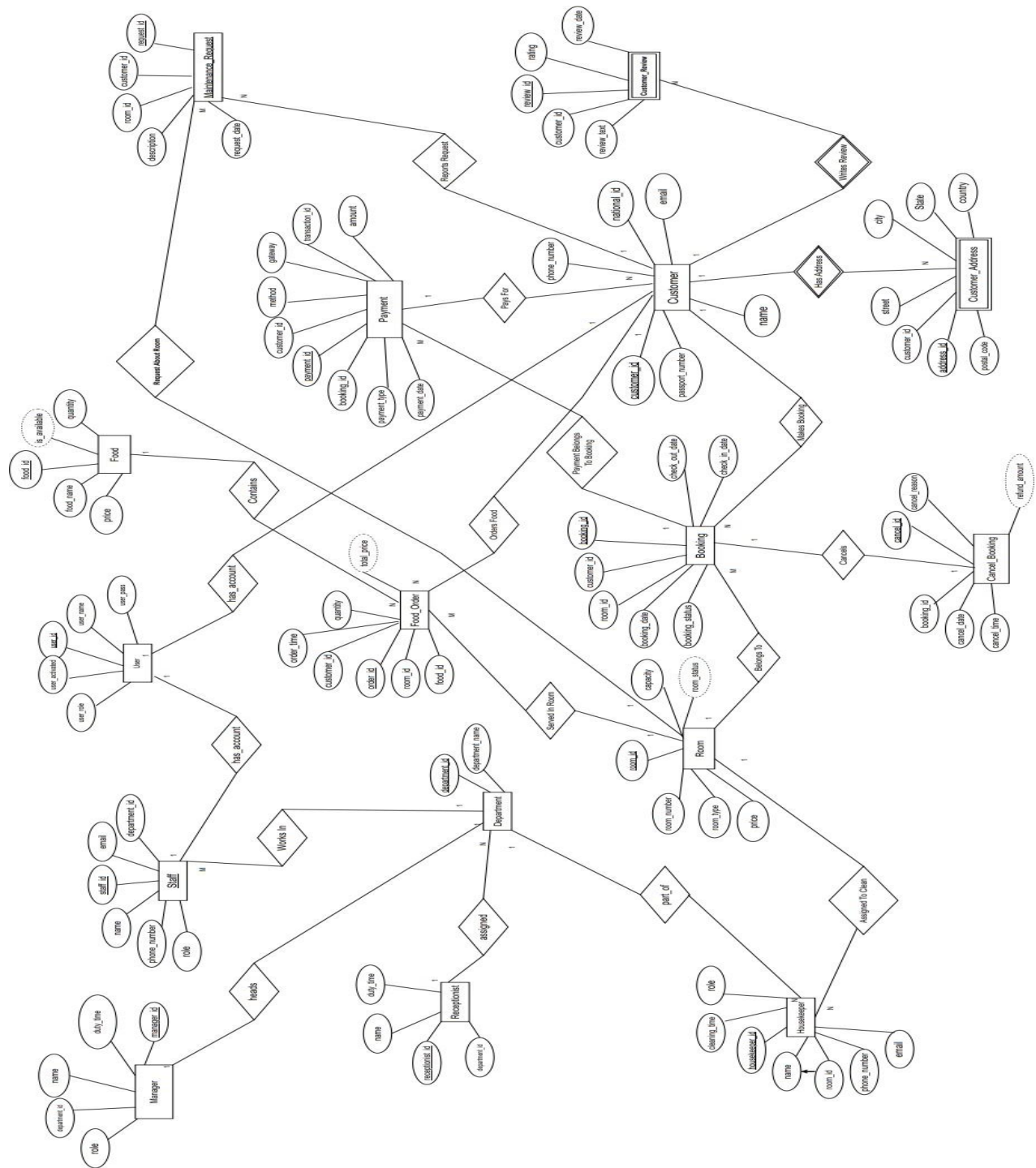


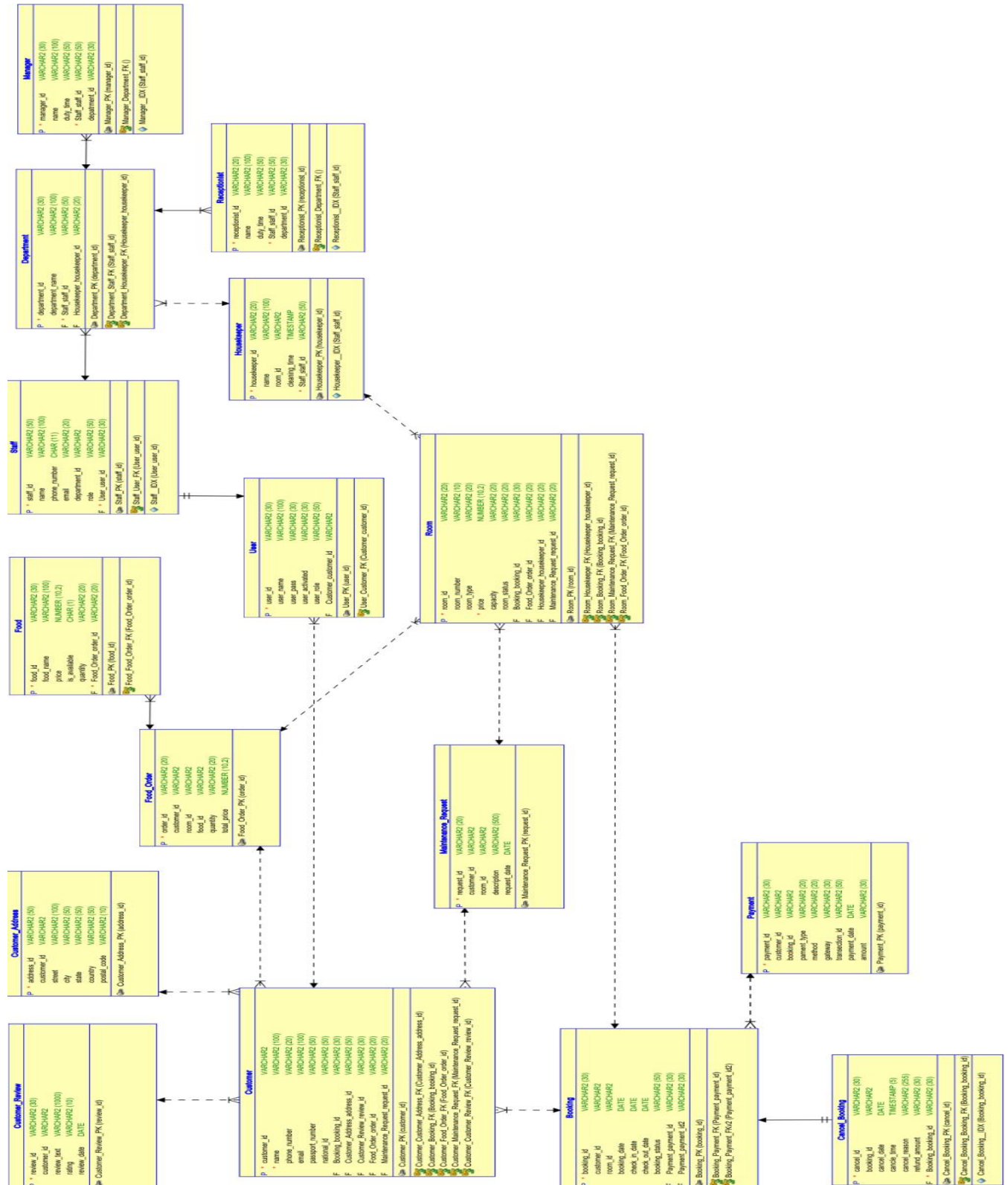
Project Report

Hotel Management System

1.E-R Model of the Project

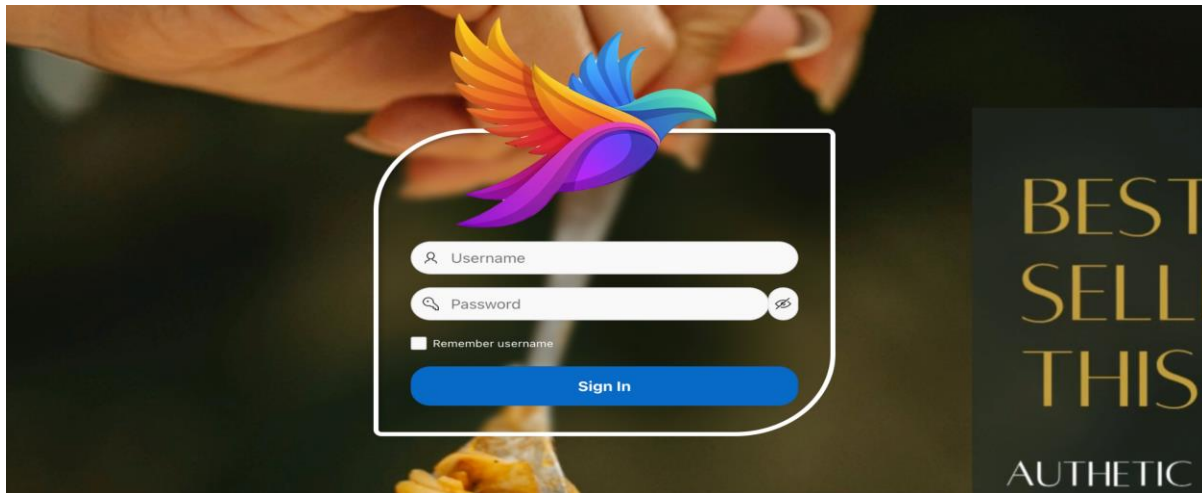


2.Schema Design of the Project

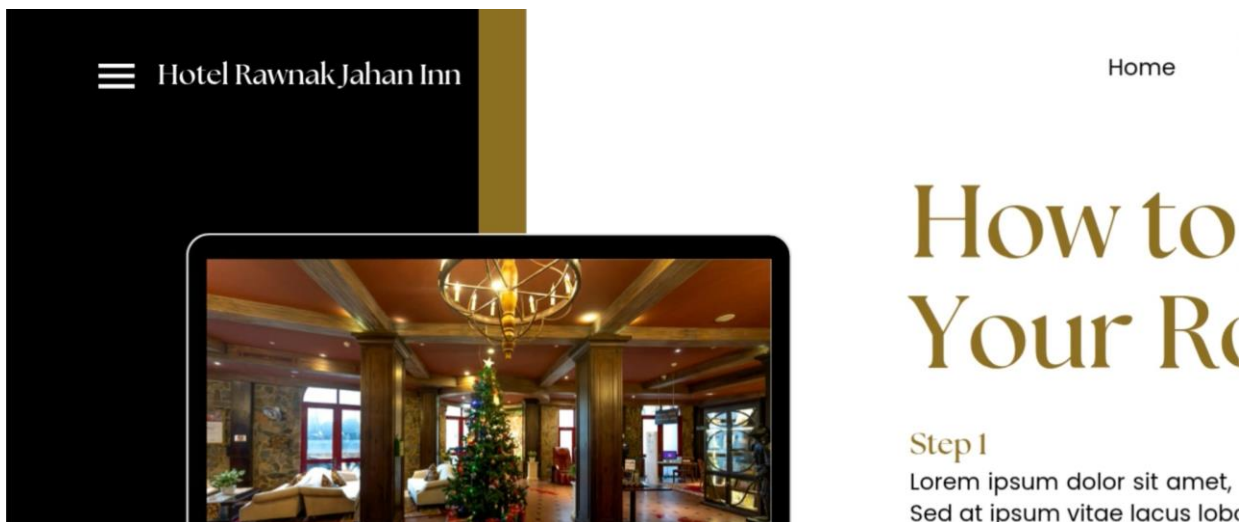


3.Reports with Forms

Report Page Number and Name	Form Page Number and Name	Table
Page 3-Customer Details	Page 2- Customer Form	Customer
Page 6 - Customer Address Details	Page 5 - Customer Address Form	Customer address
Page 9 - Room Details	Page 8 - Room Form	Room
Page 12 - Booking Details	Page 11 - Booking Form	Booking
Page 15 - Food Details	Page 14 - Food Form	Food
Page 18 - Food Order Details	Page 17 - Food Order Form	Food Order
Page 21 - Housekeeper Details	Page 20 - Housekeeper Form	Housekeeper
Page 24 - Maintenance Request Details	Page 23 - Maintenance Request Form	Maintenance Request
Page 27 - Manager Details	Page 26 - Manager Form	Manager
Page 30 - Receptionist Details	Page 29 - Receptionist Form	Receptionist
Page 33 - Department Details	Page 32 - Department Form	Department
Page 36 - Staff Details	Page 35 - Staff Form	Staff
Page 39 - Payment Details	Page 38 - Payment Form	Payment
Page 42 - Cancel Booking Details	Page 41 - Cancel Booking	Cancel Booking
Page 45 - Customer Review Details	Page 44 - Customer Review Form	Customer Review
Page 51 - User Details	Page 50 - User Form	User



Login page



Home Page

Customer Form

Customer Form

Name

Phone Number

National Id

Passport Number

Email

Cancel

Create








Customer Details

Q ▾

Go

Actions ▾

Create

	Name	Phone Number	National ID	Passport Number	Email
	Jahan	01987665344	33445678077	234568999	jahan@gmail.com
	Esrafil	546563	656565	6846786	stgdfgdfgd
	Mila	01987665456	556478893342	446774533	mila@gmail.com
	Lili	01987667873	465783664	3667749885	lili@gmail.com
	Nila	01923445674	0099883645	573446278	nila@gmail.com
	Nitu	01982667810	4457826543	88365646789	nitu@gmail.com
	Rawnak	01977534526	099872654324	8836543627728	rawnak@gmail.com

1 - 7

4.1- Customer Form & Details

Customer Address Form

Customer Address Form

Customer Id ▾

Street

City

State

Country

Postal Code

Cancel

Create

Customer Address Details

Q		Go	Actions				Create
	Customer	Street	City	State	Country	Postal Code	
	Jahan	Dhanmondi	Dhaka	Dhaka	Bangladesh	1219	
	Esrafil	hdtggd	hddh	hdnh	dt	576	
	Esrafil	Aftabnagar, Dhaka	Dhaka	Dhaka	Bangladesh	1219	
	Mila	Bonosree	Dhaka	Dhaka	Bangladesh	1219	
	Lili	Dhanmondi	Dhaka	Dhaka	Bangladesh	1219	
	Nitu	Dhanmondi	Dhaka	Dhaka	Bangladesh	1219	
							1 - 6

4.2- Customer Address Form & Details

Home	Customer Form	Customer Details	Customer Address Form	Customer Address Details	Room Form	Room Details	Food Form	Food Details		
------	---------------	------------------	-----------------------	--------------------------	-----------	--------------	-----------	--------------	--	--

Room Form

Room Form

Room Number

Room Type

Price

Capacity

Room Status

Cancel

Create

Room Details

Q		Go	Actions				Create
	Room Number	Room Type	Price	Capacity	Room Status		
	103	double	3000	1	Booked		
	101	Deluxe	2500	2	Pending		
	102	Double	5000	2	Pending		
	101	single	3000	1	available		
	102	delux	4000	2	available		
							1 - 5

4.3- Room Form & Details

Booking Form

Customer Id

Room Id

Booking Date

Check In Date

Check Out Date

Booking Status

Cancel

Create

Booking Details

Q

Go

Actions

Create

	Customer	Room	Booking Date	Check In Date	Check Out Date	Booking Status
	Esrafil	101	5/31/2025	6/1/2025	6/2/2025	cancel
	Nila	101	5/10/2025	5/12/2025	5/15/2025	Booking Confirmation Pending
	Rawnak	102	5/6/2025	5/7/2025	5/8/2025	Booking Confirmation Pending

1 - 3

4.4- Booking Form & Details

Food Form

Food Form

Food Name

Price

Is Available

Quantity

Cancel

Create





Food Details

Q ▾

Go

Actions ▾

Create

	Food Name	Price	Is Available	Quantity
	Pizza	700	Y	8
	momo	300	Y	6
	Pasta	400	Y	10
	Chiken Biriyani	600	Y	5

1 - 4

4.5- Food Form & Details

Home	Customer Form	Customer Details	Customer Address Form	Customer Address Details	Room Form	Room Details	Food Form	Food Details	
------	---------------	------------------	-----------------------	--------------------------	-----------	--------------	-----------	--------------	--

Food Order Form

Customer Id
Room Id
Food Id
Quantity
Order Time
Total Price
Cancel
Create


Food Order Details

Q

Go

Actions

Create

	Customer	Room	Food	Quantity	Total Price
	Rawnak	102	Pasta	2	800

1 - 1

4.6- Food Order Form & Details

Housekeeper Form

Name	
Room Id	
Department Id	
Phone Number	
Email	
Role	
Cleaning Time	
Cancel	Create

Housekeeper Details

Q

Go

Actions

Create

	Name	Room	Department	Phone Number	Email	Role	Cleaning Time
<div><div></div><div></div></div>	tuli	101	Housekeeping	01987665344	tuli@gmail.com	Room Attendant	5/6/2025

1 - 1

4.7- Housekeeper Form & Details

Maintenance Request Form

Maintenance Request Form	
Customer Id	
Room Id	
Description	
Request Date	
Cancel	Create


Maintenance Request Details

Q

Go

Actions

Create

	Customer	Room	Description	Request Date
	Nitu	101	Need to clean Bedsheet.	5/14/2025

1 - 1

4.8- Maintenance Request Form & Details

Home	Customer Form	Customer Details	Customer Address Form	Customer Address Details	Room Form	Room Details	Food Form	Food Details	▼	
------	---------------	------------------	-----------------------	--------------------------	-----------	--------------	-----------	--------------	---	--

Manager Form

Manager Form

Name

Department Id

Role

Duty Time

Cancel

Create

Manager Details

Q ▼		Go	Actions ▼	Create
	Name	Department	Role	Duty Time
	Mr. Max	Managing Departmnet	Chief Manager	5/31/2025
1 - 1				

4.9- Manager Form

Home	Customer Form	Customer Details	Customer Address Form	Customer Address Details	Room Form	Room Details	Food Form	Food Details	▼	
------	---------------	------------------	-----------------------	--------------------------	-----------	--------------	-----------	--------------	---	--

Receptionist Form

Receptionist Form

Name

Duty Time

Department Id

Cancel

Create

Receptionist Details

Q ▼		Go	Actions ▼	Create
	Name	Duty Time	Department	
	Jinat	5/31/2025	Front Desk	
	Rose	5/31/2025	Maintenance	
1 - 2				

4.10 Receptionist Form & Details

Home	Customer Form	Customer Details	Customer Address Form	Customer Address Details	Room Form	Room Details	Food Form	Food Details	▼	
------	---------------	------------------	-----------------------	--------------------------	-----------	--------------	-----------	--------------	---	--

Department Form

Department Form

Department Name

Cancel

Create

Department Details

Q ▼	Go	Actions ▼	Create
		Department Name	
		Front Desk	
		Maintenance	
		Food Services	
		Housekeeping	
		Food Services	
		Security	

4.11- Department Form & Details

Home	Customer Form	Customer Details	Customer Address Form	Customer Address Details	Room Form	Room Details	Food Form	Food Details	▼	
------	---------------	------------------	-----------------------	--------------------------	-----------	--------------	-----------	--------------	---	--

Staff Form

Staff Form

Name

Phone Number

Email

Department Id

Role

Cancel

Create



Staff Details

Q ▾

Go

Actions ▾

Create

	Name	Phone Number	Email	Department	Role
	Anitu	01789456033	anitu@gmail.com	Security	Gurds
	Fuzi	08976889098	fuzi@gmail.com	Maintenance	

1 - 2

4.12- Staff Form & Details

HomeCustomer FormCustomer DetailsCustomer Address FormCustomer Address DetailsRoom FormRoom DetailsFood FormFood Details

Payment Form

Room Number

Customer Id

Payment Type

Method

Gateway

Transaction Id

Payment Date

Amount

Cancel

App 290299Page 38SessionDebugQuick EditCustomize

Create

Payment Details

Q

Go

Actions

Create

	Booking	Customer	Payment Type	Method	Gateway	Transaction ID	Payment Date	Amount
<div><div></div><div></div></div>	cancel	Esrafil	Online	Card	MasterCard	fgfgdfmdh	5/31/2025	

1 - 1

4.13- Payment Form & Details

HomeCustomer FormCustomer DetailsCustomer Address FormCustomer Address DetailsRoom FormRoom DetailsFood FormFood Details

Cancel Booking

Booking Id

Cancel Date

Cancel Time

Cancel Reason

Refund Amount

Cancel

Create


Cancel Booking Details

Q

Go

Actions

Create

	Booking	Cancel Date	Cancel Time	Cancel Reason	Refund Amount
	cancel	5/31/2025	5/31/2025	sick	0

1 - 1

4.14- Cancel Booking Form & Details

Home	Customer Form	Customer Details	Customer Address Form	Customer Address Details	Room Form	Room Details	Food Form	Food Details	▼
------	---------------	------------------	-----------------------	--------------------------	-----------	--------------	-----------	--------------	---

Customer Review Form

Customer Review Form

Customer Id

Review Text

Rating

Review Date

Cancel

Create

4.15- Customer Review Form

Home	Customer Form	Customer Details	Customer Address Form	Customer Address Details	Room Form	Room Details	Food Form	Food Details	▼
------	---------------	------------------	-----------------------	--------------------------	-----------	--------------	-----------	--------------	---

Users Form

Users Form

User Name

User Pass

User Role

User Activated

Cancel

Create

4.16 User Form

4.Reports based on Multi-Table and Aggregate Queries

Page Number and Name	Query Type	Report description
Page-54 & Top_Selling_Foods	Multi-table + Aggregate	Calculates total food quantity and price with showing food name
Page-73 & customer_contact_info	Multi-table	Shows customer information only
Page-74 & Room_Booking_History	Multi-table	Shows each customers booking details
Page-75 & Maintenance_Log_View	Multi-table	Maintenance request details, customer details, room details
Page-80 & Staff_Department_View	Multi-table	Shows staff members along with their department and role.

View- Top Selling Foods

<input type="text" value="Q"/>	<input type="text" value="Go"/>	<input type="text" value="Actions"/>
Food Name	Total Quantity Ordered	Total Revenue
Pasta	2	800
		1 - 1

6.1-Top_Selling_Foods

Customer_Contact_Info

Q

Go

Actions

Customer Id	Name	Phone Number	Email	Street	City	State	Country	Postal Code
1	Esrafil	546563	stgdfgdfgd	hdtggd	hddh	hdhh	dt	576
3	Mila	01987665456	mila@gmail.com	Bonosree	Dhaka	Dhaka	Bangladesh	1219
4	Lili	01987667873	lili@gmail.com	Dhanmondi	Dhaka	Dhaka	Bangladesh	1219
5	Nitu	01982667810	nit@gmail.com	Dhanmondi	Dhaka	Dhaka	Bangladesh	1219
1	Esrafil	546563	stgdfgdfgd	Aftabnagar, Dhaka	Dhaka	Dhaka	Bangladesh	1219
7	Jahan	01987665344	jahan@gmail.com	Dhanmondi	Dhaka	Dhaka	Bangladesh	1219
6	Rawnak	01977534526	rawnak@gmail.com					
21	Tito	01725252120	sfsfrtrrwy					
8	Mustari	01994576767	mustari@gmail.com					
2	Nila	01923445674	nila@gmail.com					
9	tabassum	987766654	tabassum@gmail.com					

6.2-customer_contact_info

Room_Booking_History

Q

▼

Go

Actions

▼

Room Number	Customer Name	Check In Date	Check Out Date	Booking Status
101	Nila	5/12/2025	5/15/2025	Booking Confirmation Pending
101	Esrafil	6/1/2025	6/2/2025	cancel
102	Rawnak	5/7/2025	5/8/2025	Booking Confirmed
105	tabassum	5/29/2025	5/30/2025	Booking Confirmation Pending
110	Tito	6/1/2025	6/2/2025	Booking Confirmation Pending

1 - 5

6.3-Room_Booking_History

Maintenance_Log_View

Q ~

Go

Actions ▾

Request Id	Description	Request Date	Customer Id	Customer Name	Phone Number	Room Id	Room Number	Room Type	Room Status
1	Need to clean Bedsheet.	5/14/2025	5	Nitu	01982667810	2	101	single	available

1 - 1

6.4-Maintenance_Log_View

Staff_Department_View

Q

▼

Go

Actions ▼

Staff Id	Staff Name	Phone Number	Email	Department Name	Role
21	Fuzi	08976889098	fuzi@gmail.com	Maintenance	
1	Anitu	01789456033	anitu@gmail.com	Security	Gurds

1 - 2

6.5-Staff_Department_View

5. Concluding Remarks

Working on the Hotel Management System project gave us a clear understanding of how database management concepts are applied in real-world situations. Throughout the development process, we gained practical experience in designing e-r model, schema design, tables, writing SQL queries, managing relationships between entities, and maintaining data integrity. It helped us see how a well-organized database can make tasks like room booking, customer check-in/check-out, staff management, and billing much more efficient.

This project not only helped us strengthen our technical knowledge in DBMS but also taught us the importance of collaboration and planning in system development. It was a great opportunity to turn theoretical knowledge into a practical solution. We believe the system we built has a solid foundation and can be expanded further with features like online booking, customer feedback, and reporting tools.