



## AMERICAN INTERNATIONAL UNIVERSITY–BANGLADESH (AIUB)

Dept. of Computer Science  
Faculty of Science and Technology

### CSC2210: OBJECT ORIENTED PROGRAMMING 2

Fall 2024-2025

Section: [L]

Group No: 15

### Project Report On

*Project Name [CrystalOasis : A Luxurious Hotel Management System]*

Supervised By

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Submitted By:

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Obtained Marks for CO2 and CO3 (Description given in the following page)					
Assessment Criteria	Not Attended/ Incorrect (0)	Inadequate (1-2)	Average (3)	Good (4)	Excellent (5)
Evaluation Criteria (CO2)	Total =		Evaluation Criteria (CO3)		Total =
Requirement fulfillment			Organization of the application		
Validation			Representation and Integration of Database		
Verification			Graphical User Interface		

**CO2:** Display and verify the mean of a real-life Project using the concepts of C# Graphical User Interface based environment with database integration to depict a desktop-based application.

Assessment Criteria	Not Attended/ Incorrect (0)	Inadequate (1-2)	Average (3)	Good (4)	Excellent (5)
Evaluation Criteria	Evaluation Definition				
Requirement fulfillment	Fails to demonstrate any understanding of real-life scenario-based project development or functional requirement identification. There is no attempt to depict a project or identify functional requirements accurately.	Demonstrates limited understanding of real-life scenario-based project development and functional requirement identification. The project depicted lacks coherence or relevance to real-life scenarios, and functional requirements are inaccurately identified or insufficiently described.	Presents a basic depiction of a real-life scenario-based project and identifies some functional requirements. However, the project lacks depth or complexity, and some functional requirements may be vaguely defined or missing key details.	Effectively demonstrates a realistic scenario-based project and accurately identifies most functional requirements. The project is well-developed with appropriate complexity, and functional requirements are clearly articulated with relevant details.	Exhibits an exceptional understanding of real-life scenario-based project development and accurately identifies all functional requirements. The project is meticulously developed with thorough attention to detail, reflecting a comprehensive understanding of Object-Oriented Programming project development activities.
Validation	Fails to demonstrate any understanding or implementation of validation forms in their system. There is no attempt to deal with data validation, and validation requirements are completely ignored or incorrectly applied.	Demonstrates limited understanding of validation forms and data validation techniques. While some attempt may be made to implement validation, it is incomplete or poorly executed, leading to inadequate handling of data validation.	Shows a basic understanding of validation forms and data validation techniques. They attempt to implement validation, but some aspects may be missing or incorrectly implemented, resulting in partial or inconsistent handling of data validation.	Effectively demonstrates the use of validation forms and implements data validation techniques. Validation is mostly accurate and comprehensive, ensuring the proper handling of data input and verification in the system.	Exhibits an exceptional understanding and implementation of validation forms and data validation techniques. Validation is meticulously implemented with thorough attention to detail, ensuring robust data validation procedures and contributing to the overall reliability and integrity of the system.
Verification	Fails to demonstrate any attempt to verify the system data or functional requirements. There is no evidence of	Demonstrates limited understanding of verification processes and data flow in the system. Verification	Shows a basic understanding of verification processes and attempts to verify system data. However, verification	Identifies and verifies system data, ensuring proper functional requirements are met. Verification efforts are mostly accurate and	Exhibits an exceptional understanding of verification processes and meticulously verifies system data. Verification

	understanding or implementation of verification processes, and data flow is not considered.	attempts are incomplete or inaccurate, and there is insufficient consideration given to ensuring data integrity and functionality.	efforts may be inconsistent or lack thoroughness, and there may be gaps in ensuring proper functional requirements and data flow.	thorough, with attention to ensuring data integrity and appropriate data flow within the system.	efforts are comprehensive and precise, with a keen focus on ensuring all functional requirements are met and maintaining proper data flow throughout the system.
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**CO3:** Prepare and Explain a real life desktop based application synthesizing several component of C# along with development tools to adhere the given requirements.

Assessment Criteria	Not Attended/ Incorrect (0)	Inadequate (1-2)	Average (3)	Good (4)	Excellent (5)
Evaluation Criteria	Evaluation Definition				
Organization of the application	Fails to identify any suitable real time application or requirements for project development activities related to OOP.	Limited understanding about the project scopes and scenarios or identification of functional requirements.	Lacks depth or relevance to OOP project development activities and may contain inaccuracies. Real-life scenarios are mentioned, but the discussion lacks depth or clarity.	Consider and integrate the idea of several core aspects of the project along with relevance to real-life scenarios. Demonstrating a solid understanding of the application presentation.	Generalize and exhibits an exceptional understanding of project preparation according to a to real-life scenarios. Also contains proper and insightful identification of the system which is comprehensive and precise.
Representation and Integration of Database	Fails to identify and present any understanding or implementation of database. Also failed to integrate the data with the project itself.	Limited understanding of the database concepts or their proper way of using in a real time project. While some attempt may be made to implement but it is incomplete or poorly executed, leading to inadequate design.	Lacks depth or relevance to database integration with the application. Shows a basic understanding but some aspects may be missing or incorrectly implemented, resulting in partial or inconsistency. May lack proper normalization.	Integrate the database with the forms properly and implements it with proper validation which is mostly accurate and comprehensive, ensuring the proper handling of data input and verification along with general normalization.	Exhibits an exceptional understanding and implementation of database ensuring attention to detail, and robust data manipulation procedures and contributing to the overall clarity.
Graphical User Interface	Fails to present or prepare GUI based application interfaces. There is no evidence of creating or integrating such things according to their usefulness.	Limited understanding of graphical user interfaces. Lack of design knowledge. Very poor attempt to make such things which are currently obsolete	Shows a basic understanding of creating user interfaces. Most of them are interconnected but maybe some of them lack it. However, most of it can be	Effectively identifies and meet the consider the simplicity. Design related works are mostly accurate and taken proper attention to ensuring a user-	Exhibits an exceptional work design following a high standard of simple and elegant work. Several controls and mechanism has been organized in a

		or can't be identified as coherent.	described as user friendly.	friendly coherent system.	preferred way according to the coherent usage .
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## CHAPTER 1: INTRODUCTION:

In today's fast-paced world, hotels play an important role in providing people with comfort, relaxation, and care. Managing a hotel is not just about running a business; it's about creating a welcoming place where guests feel valued and cared for. To achieve this, it's crucial to handle guest services, staff coordination, and daily operations efficiently.

Our project, **CrystalOasis** : A Luxurious Hotel Management System, is designed to make hotel operations smoother and more effective. It helps guests easily book rooms, request services, and enjoy a better experience. At the same time, it supports hotel staff and managers with tools to organize their tasks, manage the hotel, and make better decisions. With **CrystalOasis**, we want to make life easier for everyone involved—guests, staff, and administrators. The system is built to meet the needs of today's hotels while also preparing them for the future. This project is more than just software. It's a way to bring people together, ensure every guest feels at home, and help hotels deliver the best hospitality experience possible.

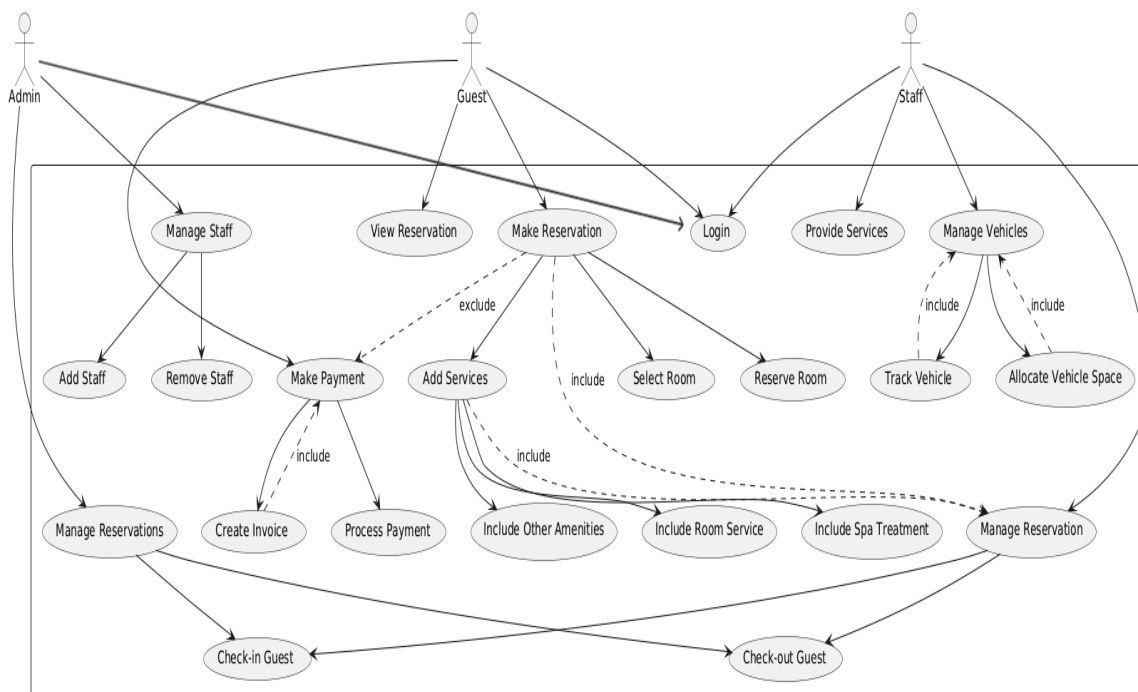
## CHAPTER 2: USER STORIES

Use Case Name	Actor	User Story
<b>Admin Login</b>	Admin	Admin logs in using credentials (ID, password) to access and manage staff, reservations, and other system functions.
<b>Guest Login</b>	Guest	Guest logs in using credentials (ID, password) to manage reservations and access their account details.
<b>Staff Login</b>	Staff	Staff logs in using credentials (ID, password) to manage guest reservations and provide services.
<b>Manage Staff</b>	Admin	Admin manages staff (add, edit, delete) to ensure the efficient operation of the hotel.
<b>View Staff Details</b>	Admin	Admin views details of staff members (name, role, contact info) for managing team members.
<b>Create Reservation</b>	Guest	Guest reserves one or more rooms for a specific stay, selecting preferred dates and room types.
<b>View Room Availability</b>	Guest	Guest checks room availability based on desired check-in and check-out dates.
<b>Manage Reservation</b>	Admin	Admin manages reservations, making changes such as editing or canceling bookings to ensure smooth operations.
<b>View Guest Details</b>	Admin	Admin views guest details (name, email, membership status) to manage reservations and services.
<b>Assign Room to Guest</b>	Admin	Admin assigns a room to a guest's reservation to ensure proper room allocation.

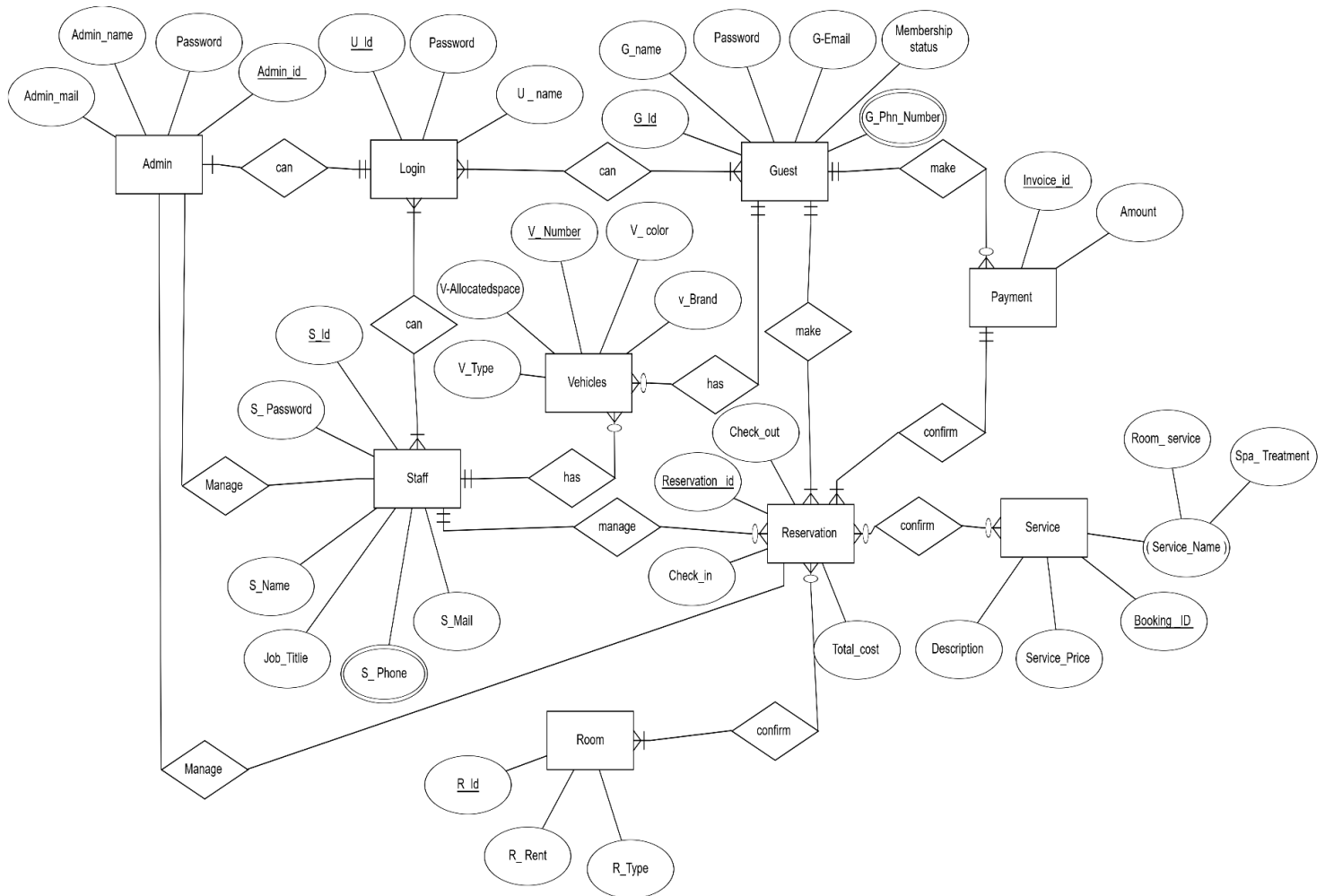
<b>Manage Services</b>	Staff	Staff provides and manages various services such as room services.
<b>Add Service to Reservation</b>	Staff	Staff adds services (room service, Gym, Swimming pool, etc.) to a reservation to enhance the guest's experience.
<b>View Services for Reservation</b>	Guest	Guest views available services and selects them for their reservation to customize their stay.
<b>Make Payment</b>	Guest	Guest makes payments for reservations using various payment methods to complete their transaction.
<b>Generate Invoice</b>	Admin	Admin generates invoices for guest payments, providing a detailed breakdown of charges, payment method, and dates.
<b>Manage Vehicle</b>	Admin	Admin manages the parking assignments and vehicle details for both staff and guests to ensure proper parking arrangements.
<b>Assign Parking to Vehicle</b>	Admin	Admin assigns specific parking spaces to guest or staff vehicles, ensuring proper space allocation within the resort.
<b>View Vehicle Details</b>	Admin	Admin views vehicle details (number, brand, type, parking space) for managing parking and ensuring organized vehicle allocation.
<b>Add Vehicle to Guest</b>	Guest	Guest adds vehicle details (number, brand, type) to their profile, ensuring an allocated parking space during their stay.
<b>Add Vehicle to Staff</b>	Staff	Staff adds vehicle details to their profile for proper parking allocation and parking space management.

## CHAPTER 3: DATABASE:

### USE CASE DIAGRAM:

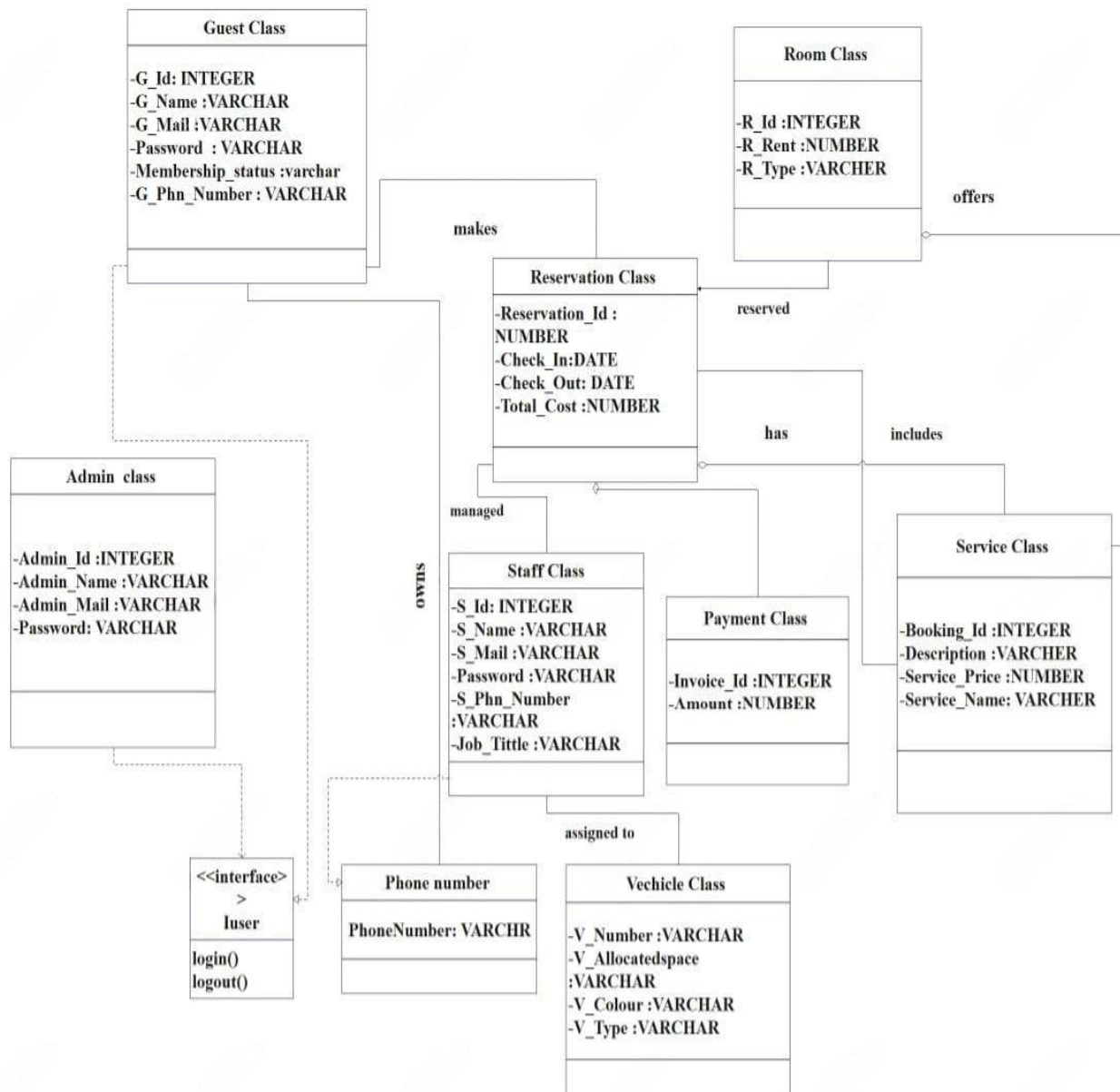


## ER- DIAGRAM:





## CLASS DIAGRAM:



### DATA DICTIONARY:

#### 1. Admin Table

Column Name	Data Type	Allow Null	Description
A_ID	Int	No	Primary Key - Unique Admin Id
Admin_Name	Varchar(50)	No	Name Of The Admin
Admin_Mail	Varchar(50)	No	Email Of The Admin
Admin_Phone	Varchar(20)	No	Contact Number Of The Admin

#### 2. Staff Table

Column Name	Data Type	Allow Null	Description
S_ID	Int	No	Primary Key - Unique Staff Id
S_Name	Varchar(50)	No	Name Of The Staff Member
Job_Title	Varchar(50)	No	Job Title Of The Staff
S_Phone	Varchar(50)	Yes	Phone Number Of The Staff
S_Mail	Varchar(50)	Yes	Email Address Of The Staff
A_ID	Int	No	Foreign Key - References A_ID In Admin Table

#### 3. Guest Table

Column Name	Data Type	Allow Null	Description
G_ID	Int	No	Primary Key - Unique Guest Id
G_Name	Varchar(50)	No	Full Name Of The Guest
G_Mail	Varchar(50)	Yes	Email Address Of The Guest
G_Phone	Varchar(15)	No	Contact Number Of The Guest
Nationality	Varchar(50)	No	Nationality Of The Guest
Gender	Varchar(50)	No	Gender Of The Guest
DOB	Datetime	No	Date Of Birth Of The Guest

#### 4. Room Table

Column Name	Data Type	Allow Null	Description
Room_ID	Int	No	Primary Key - Unique Room Id
Room_Rent	Decimal(10,2)	No	Rent Price For The Room
Room_Type	Varchar(50)	No	Type Of Room (E.G., Single, Double, Suite)
Status	Varchar(50)	Yes	Status Of The Room (Available/Booked)

#### 5. Reservation Table

Column Name	Data Type	Allow Null	Description
Reservation_ID	Int	No	Primary Key - Unique Reservation Id
Check_Out	Datetime	No	Check-Out Date And Time
Check_In	Datetime	No	Check-In Date And Time
Room_ID	Int	No	Foreign Key - References Room_ID In Room Table
G_ID	Int	Yes	Foreign Key - References G_ID In Guest Table

#### 6. Vehicles Table

Column Name	Data Type	Allow Null	Description
-------------	-----------	------------	-------------

Vehicle_ID	Varchar(50)	No	Primary Key - Unique Vehicle Id
V_Color	Varchar(50)	No	Color Of The Vehicle
V_Brand	Varchar(50)	No	Brand Of The Vehicle
V_Type	Varchar(50)	Yes	Type Of The Vehicle (Car, Bike, Etc.)
V_Allocated_Space	Varchar(50)	Yes	Parking Space Allocated
G_ID	Int	No	Foreign Key - References G_ID In Guest Table
S_ID	Int	No	Foreign Key - References S_ID In Staff Table

#### 7. Service Table

Column Name	Data Type	Allow Null	Description
Service_Name	Varchar(50)	No	Name Of The Service
Booking_ID	Int	No	Foreign Key - Links To A Booking (Reservation)
Service_Price	Decimal(10,2)	Yes	Price Of The Service
Description	Varchar(50)	Yes	Description Of The Service
Reservation_ID	Int	Yes	Foreign Key - References Reservation_ID In Reservation Table

#### 8. Payment Table

Column Name	Data Type	Allow Null	Description
Invoice_ID	Int	No	Primary Key - Unique Invoice Id
Amount	Decimal(10,2)	No	Total Payment Amount
Payment_Time	Datetime(2)	No	Date And Time Of Payment
Payment_Method	Varchar(50)	No	Payment Method (Cash, Credit Card, Etc.)
Reservation_ID	Int	Yes	Foreign Key - References Reservation_ID In Reservation Table
G_ID	Int	Yes	Foreign Key - References G_ID In Guest Table
G_Name	Varchar(50)	No	Name Of The Guest Making Payment

#### 9. Login Table

Column Name	Data Type	Allow Null	Description
ID	Int	No	Primary Key - Unique Login Id
Username	Varchar(50)	No	Username For Login
Password	Varchar(50)	No	Password For Login
Status	Int	No	User Status (Active/Inactive)
A_ID	Int	Yes	Foreign Key - References A_ID In Admin Table
S_ID	Int	Yes	Foreign Key - References S_ID In Staff Table
G_ID	Int	Yes	Foreign Key - References G_ID In Guest Table

## **SQL QUERIES:**

### **Create Admin Table**

```
CREATE TABLE Admin (  
    A_ID INT PRIMARY KEY AUTO_INCREMENT,  
    admin_name VARCHAR(50) NOT NULL,  
    admin_mail VARCHAR(50) NOT NULL,  
    admin_phone VARCHAR(20) NOT NULL  
);
```

### **Insert Admin Data**

```
INSERT INTO Admin (admin_name, admin_mail, admin_phone) VALUES ('Burhan  
Uddin', 'borhanuddin1902@gmail.com', '01932550019');  
SET @AdminID = LAST_INSERT_ID();  
INSERT INTO Login (Username, Password, Status, A_ID, S_ID, G_ID) VALUES  
( 'admin1', 'password123', 1, @AdminID, NULL, NULL);
```

### **Create Staff Table**

```
CREATE TABLE Staff (  
    S_ID INT PRIMARY KEY AUTO_INCREMENT,  
    S_Name VARCHAR(50) NOT NULL,  
    Job_title VARCHAR(50) NOT NULL,  
    S_Phone VARCHAR(50),  
    S_Mail VARCHAR(50),  
    A_ID INT NOT NULL,  
    FOREIGN KEY (A_ID) REFERENCES Admin(A_ID) ON DELETE CASCADE  
);
```

### **Create Guest Table**

```
CREATE TABLE Guest (  
    G_ID INT PRIMARY KEY AUTO_INCREMENT,  
    G_Name VARCHAR(50) NOT NULL,  
    G_mail VARCHAR(50),  
    G_phone VARCHAR(15) NOT NULL,  
    Nationality VARCHAR(50) NOT NULL,  
    Gender VARCHAR(50) NOT NULL,  
    DOB DATETIME NOT NULL  
);
```

### **Create Room Table**

```
CREATE TABLE Room (  
    Room_ID INT PRIMARY KEY AUTO_INCREMENT,  
    Room_rent DECIMAL(10,2) NOT NULL,  
    Room_type VARCHAR(50) NOT NULL,  
    Status VARCHAR(50)  
);
```

### **Create Reservation Table**

```
CREATE TABLE Reservation (  
    Reservation_ID INT PRIMARY KEY AUTO_INCREMENT,  
    Check_out DATETIME NOT NULL,  
    Check_in DATETIME NOT NULL,  
    Room_ID INT NOT NULL,  
    G_ID INT,  
    FOREIGN KEY (Room_ID) REFERENCES Room(Room_ID) ON DELETE  
CASCADE,
```

```
FOREIGN KEY (G_ID) REFERENCES Guest(G_ID) ON DELETE SET NULL
);
```

#### **Create Vehicles Table**

```
CREATE TABLE Vehicles (
    Vehicle_ID VARCHAR(50) PRIMARY KEY,
    V_color VARCHAR(50) NOT NULL,
    V_brand VARCHAR(50) NOT NULL,
    V_type VARCHAR(50),
    V_allocated_space VARCHAR(50),
    G_ID INT NOT NULL,
    S_ID INT NOT NULL,
    FOREIGN KEY (G_ID) REFERENCES Guest(G_ID) ON DELETE CASCADE,
    FOREIGN KEY (S_ID) REFERENCES Staff(S_ID) ON DELETE CASCADE
);
```

#### **Create Service Table**

```
CREATE TABLE Service (
    Service_name VARCHAR(50) NOT NULL,
    Booking_ID INT NOT NULL,
    Service_price DECIMAL(10,2),
    Description VARCHAR(50),
    Reservation_ID INT,
    PRIMARY KEY (Service_name, Booking_ID),
    FOREIGN KEY (Reservation_ID) REFERENCES Reservation(Reservation_ID)
    ON DELETE CASCADE
);
```

#### **Create Payment Table**

```
CREATE TABLE Payment (
    Invoice_ID INT PRIMARY KEY AUTO_INCREMENT,
    Amount DECIMAL(10,2) NOT NULL,
    Payment_time DATETIME(2) NOT NULL,
    Payment_method VARCHAR(50) NOT NULL,
    Reservation_ID INT,
    G_ID INT,
    G_Name VARCHAR(50) NOT NULL,
    FOREIGN KEY (Reservation_ID) REFERENCES Reservation(Reservation_ID)
    ON DELETE SET NULL,
    FOREIGN KEY (G_ID) REFERENCES Guest(G_ID) ON DELETE SET NULL
);
```

#### **Create Login Table**

```
CREATE TABLE Login (
    ID INT PRIMARY KEY AUTO_INCREMENT,
    Username VARCHAR(50) NOT NULL,
    Password VARCHAR(50) NOT NULL,
    Status INT NOT NULL,
    A_ID INT,
    S_ID INT,
    G_ID INT,
```

```

FOREIGN KEY (A_ID) REFERENCES Admin(A_ID) ON DELETE CASCADE,
FOREIGN KEY (S_ID) REFERENCES Staff(S_ID) ON DELETE CASCADE,
FOREIGN KEY (G_ID) REFERENCES Guest(G_ID) ON DELETE CASCADE
);

```

#### **Get All Staff with Their Associated Admins**

```

SELECT
    s.S_ID, s.S_Name, s.Job_title, s.S_Phone, s.S_Mail,
    a.A_ID, a.admin_name, a.admin_mail, a.admin_phone
FROM Staff s
JOIN Admin a ON s.A_ID = a.A_ID;

```

#### **Get All Guests with Their Reservations**

```

SELECT
    g.G_ID, g.G_Name, g.G_mail, g.G_phone, g.Nationality, g.Gender, g.DOB,
    r.Reservation_ID, r.Check_in, r.Check_out, r.Room_ID
FROM Guest g
JOIN Reservation r ON g.G_ID = r.G_ID;

```

#### **Get All Reservations with Room Details**

```

SELECT
    r.Reservation_ID, r.Check_in, r.Check_out, r.G_ID,
    rm.Room_ID, rm.Room_type, rm.Room_rent, rm.Status
FROM Reservation r
JOIN Room rm ON r.Room_ID = rm.Room_ID;

```

#### **Get All Payments with Guest and Reservation Info**

```

SELECT
    p.Invoice_ID, p.Amount, p.Payment_time, p.Payment_method,
    g.G_ID, g.G_Name, g.G_mail,
    r.Reservation_ID, r.Check_in, r.Check_out
FROM Payment p
JOIN Guest g ON p.G_ID = g.G_ID
JOIN Reservation r ON p.Reservation_ID = r.Reservation_ID;

```

#### **Get Staff with Their Login Credentials**

```

SELECT
    s.S_ID, s.S_Name, s.Job_title, s.S_Phone, s.S_Mail,
    l.Username, l.Status
FROM Staff s
JOIN Login l ON s.S_ID = l.S_ID;

```

#### **Get Admins with Their Login Credentials**

```

SELECT
    a.A_ID, a.admin_name, a.admin_mail, a.admin_phone,
    l.Username, l.Status
FROM Admin a
JOIN Login l ON a.A_ID = l.A_ID;

```

#### CHAPTER 4: SCREENSHOT OF FORMS WITH FIGURE NAMES:



Figure-01: Welcome page

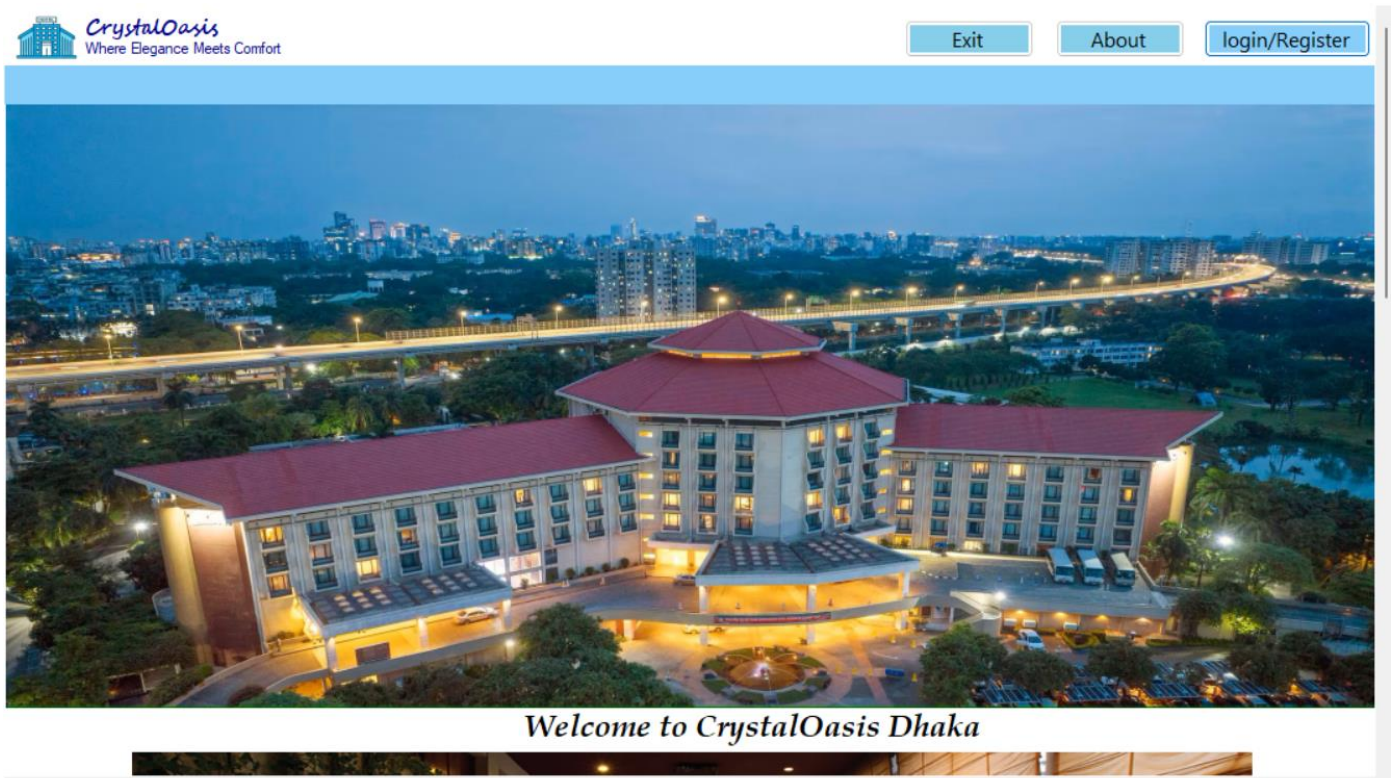



Figure-02: Home page



# CrystalOasis DISCOVERY

## Login/Register

**Username or Email Address:**

**Password:**

☐ show

[Forgot Password](#)


### Don't have account ? Join Us

**Benefits of CrystalOasis DISCOVERY**

- 1.10% savings year-round on Flexible Rate
- 2.Up to 15% savings on total service charge
- 3.Enjoy complimentary Breakfast

\*Subject to availability upon check-in

Figure-03: Login page




**Email :**

**Enter Code :**

Figure-04: Forgot password page



## Guest Registration



**Name :**

**Mobile Number :**

**Email Address :**

**Nationality :**

Select Country ▼

**Gander :**

Select Gander ▼

**Date of Birth :**

Wednesday, February 12, 2025 ▼

**Username**

**Password**

**Confirm password**

*CrystalOasis*





Figure-05: Guest registration page



*CrystalOasis*  
Where Elegance Meets Comfort

[Log out](#)

Dashboard

Manage Room

Manage Reservation

Manage Service

Manage Staff

Manage Vehicle

Manage Admin

Manage Guest

Welcome, Burhan

**Total Staff: 4**


**Total Vehicle parked: 4**

**Total Guest: 2**

**Total Room: 7**

	Invoice_ID	Reservation_ID	G_ID	G_Name	Amount	Payment_time	Payment_method
▶	3	33	19	Borhan Uddin	3500.00	2/9/2025 8:37 PM	PayPal
	4	35	19	Borhan Uddin	8500.00	2/9/2025 11:29 PM	Visa Card
	6	38	19	Borhan Uddin	10000.00	2/10/2025 7:53 AM	Master Card

Figure-06: Admin Dashboard



**CrystalOasis**  
 Where Elegance Meets Comfort

Log out

Dashboard  
 Manage Room  
 Manage Reservation  
 Manage Service  
 Manage Staff  
 Manage Vehicle  
 Manage Admin  
 Manage Guest

## Manage Room

Search

Room_ID	Room_rent	Room_type	Status	Delete
111	2500.00	Single twin Bed	Available	Delete
112	3000.00	Oasis Comfort Suite	Booked	Delete
113	2500.00	Deluxe room	Available	Delete
114	5000.00	Presidential Suite	Booked	Delete
115	3000.00	Standard Room	Booked	Delete
116	2000.00	Suite	Available	Delete
1121	12.00	Presidential Suite	Available	Delete

Add Room

Update Room

Room Number:

113

Room Rent:

2500.00


Room Type

Deluxe room

Room status

Available

Figure-07: Manage room page for admin



**CrystalOasis**  
 Where Elegance Meets Comfort

Log out

Dashboard  
 Manage Room  
 Manage Reservation  
 Manage Service  
 Manage Staff  
 Manage Vehicle  
 Manage Admin  
 Manage Guest

## Manage Guest

Search

G_ID	G_Name	G_phone	G_mail	Nationality	Gender	DOB	Status	Delete
19	Borhan Uddin	012345671...	borhanuddi...	Bangladesh	Male	2/19/2002 ...	1	Delete
22	ahmed	12345678909	ahmed@gm...	Bangladesh	Male	2/11/2025 ...	1	Delete

Update Guest

Guest ID:

Name :

Mobile Number :

Email Address :

Nationality :

Select Country

Gander :

Select Gender


Date of Birth :

Wednesday, February 12, 2025

Member Status

Select status

Figure-08: Manage Guest page for admin



**CrustalOasis**  
 Where Elegance Meets Comfort

Log out

Dashboard  
 Manage Room  
 Manage Reservation  
 Manage Service  
 Manage Staff  
 Manage Vehicle  
 Manage Admin  
 Manage Guest

## Manage Reservation

Search

	Reservation_ID	Check_out	Check_in	Room_ID	G_ID	Delete
	33	2/13/2025	2/12/2025	113	19	Delete
	34	2/15/2025	2/12/2025	114	19	Delete
	35	2/15/2025	2/12/2025	111	19	Delete
	36	2/16/2025	2/14/2025	112	19	Delete
	38	2/15/2025	2/13/2025	114	19	Delete
	39	2/27/2025 9:55 AM	2/12/2025 9:55 AM	112	19	Delete
	40	2/28/2025	2/26/2025	114	22	Delete
	41	2/15/2025	2/12/2025	115	19	Delete
	42	2/15/2025	2/12/2025	112	19	Delete
	43	2/14/2025	2/12/2025	114	19	Delete

Reservation ID:

41

Check In:

Wednesday, February 12 ▾

Check Out:

Saturday, February 15 ▾

Guest ID:

19


Room Number:

115

Add Reservation

Update Reservation

Figure-09: Manage Reservation page for admin



**CrustalOasis**  
 Where Elegance Meets Comfort

Log out

Dashboard  
 Manage Room  
 Manage Reservation  
 Manage Service  
 Manage Staff  
 Manage Vehicle  
 Manage Admin  
 Manage Guest

## Manage Staff

Search

	S_ID	S_Name	Job_title	S_Phone	S_Mail	A_ID	Username	Password	Status	Delete
	12	basir	Chef	02169821...	basir@gm...	2	basir	basir	0	Delete
	5	Mike Brown	Cleaner	54321678...	mike@gm...	2	staff1	password...	1	Delete
	13	Brown	Receptionist	145632987	brown@g...	5	staff2	password...	1	Delete
	14	farid	Waiter/W...	02589631...	farid@gm...	5	staff3	farid123	1	Delete

ID Number:

Staff Name

Staff phone

Staff mail

Job Title

Select Job title ▾

Admin ID:

Staff Username:

Staff Password:

Status:

Select Status ▾

Add Staff

Update Staff

Figure-10: Manage Staff page for admin

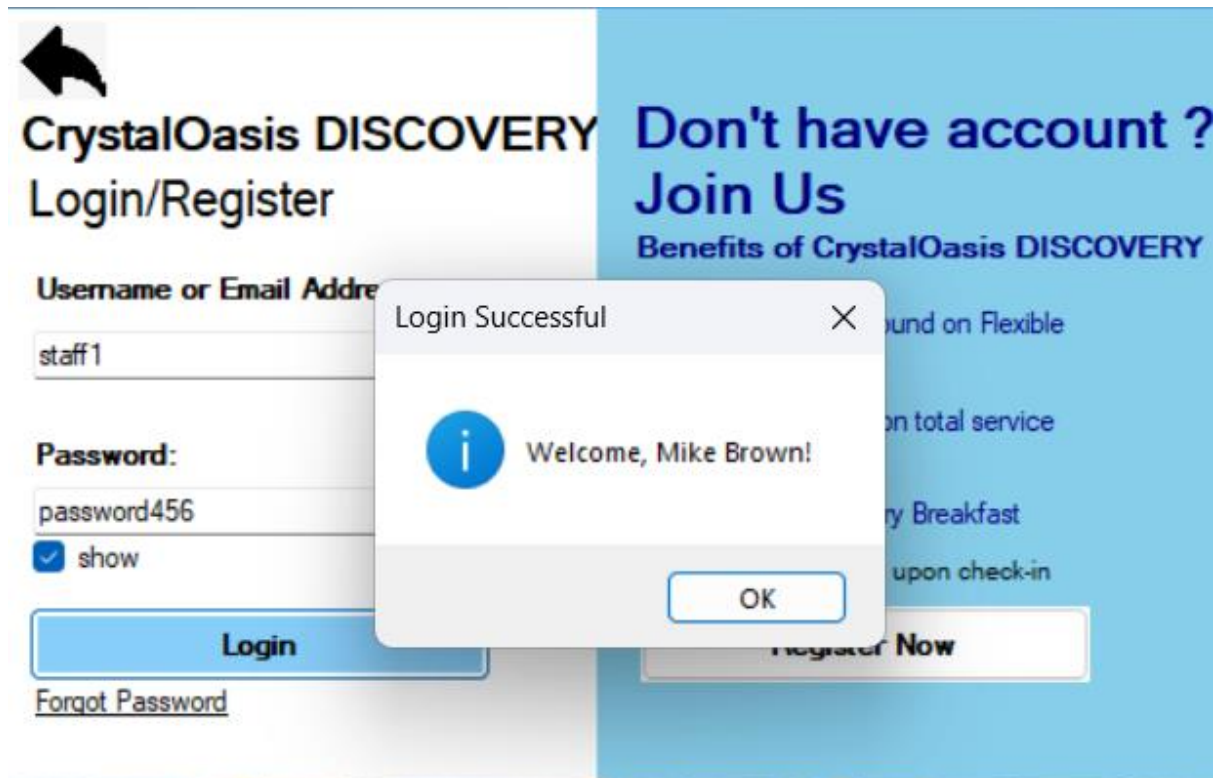



Figure-11: Staff successfully logged in

**CrystalOasis**  
Where Elegance Meets Comfort



- Dashboard
- Manage Reservation
- Manage Vehicle
- Manage Guest

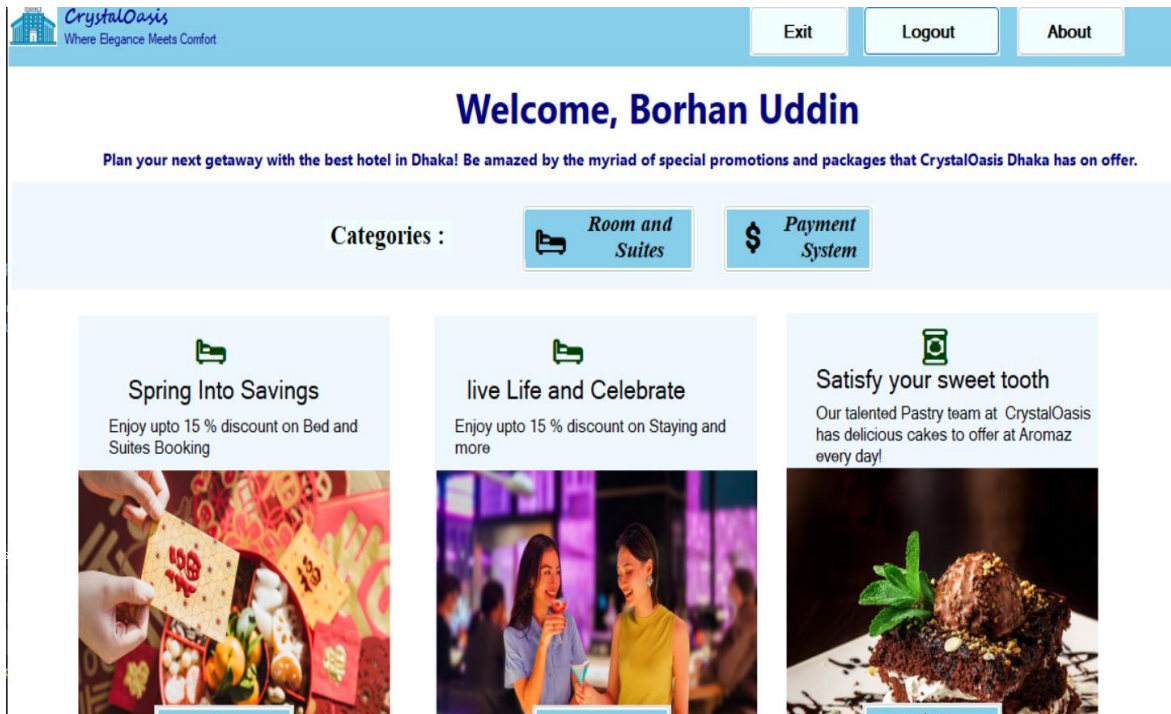
**Log out**

Welcome to Staff Dashboard  
Hello , Mike Brown

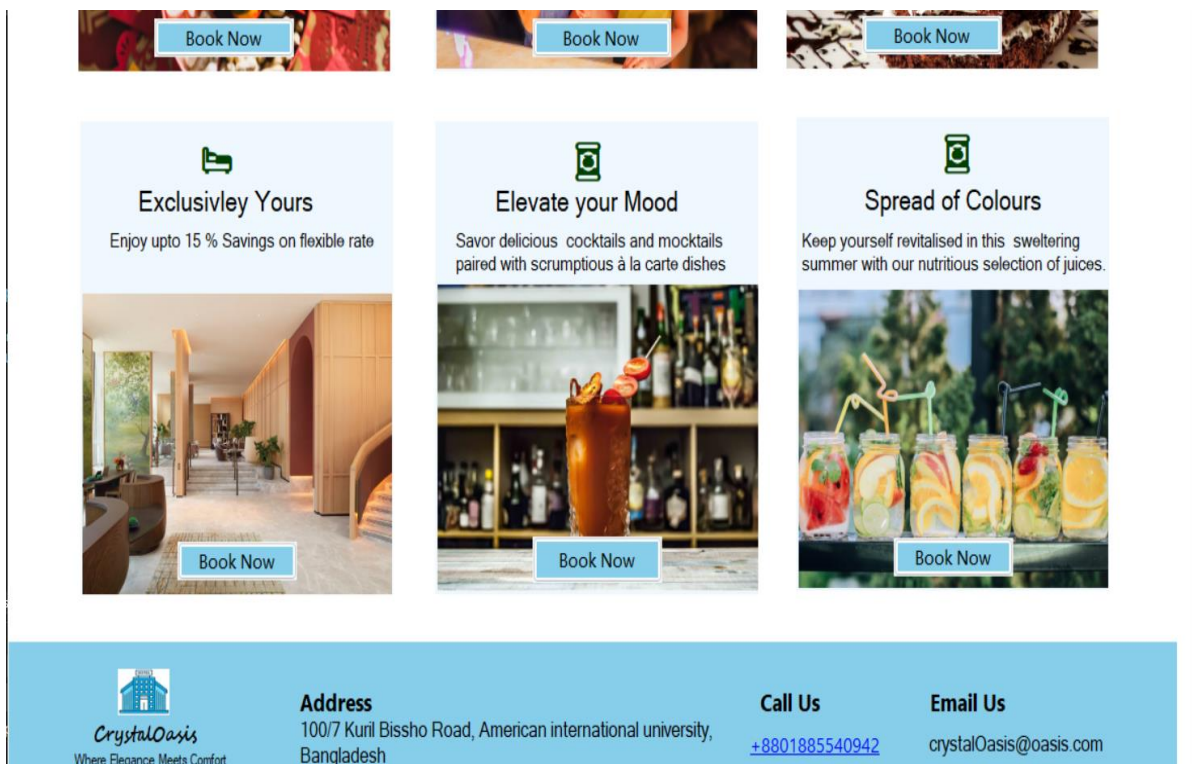
**Total Vehicle parked: 4    Total Room: 7    Total Guest: 2**

	Invoice_ID	Reservation_ID	G_ID	G_Name	Amount	Payment_time	Payment_method
▶	3	33	19	Borhan Uddin	3500.00	2/9/2025 8:37 PM	PayPal
	4	35	19	Borhan Uddin	8500.00	2/9/2025 11:29 PM	Visa Card
	6	38	19	Borhan Uddin	10000.00	2/10/2025 7:53 AM	Master Card

Figure-12: Staff Dashboard



**Figure-13: Guest home page after login**



**Figure-14: Guest home page after login**



## Plan Your Stay

Your perfect stay begins here—choose the room that suits you best, and we'll ensure a smooth check-in and check-out experience, tailored just for you.  
Feel free to adjust it as you like!

Check in :  
Monday , February 10, 2025

Check out :  
Monday , Febru

Vehicle Information :  
Select Vehicle info

### Room Type :

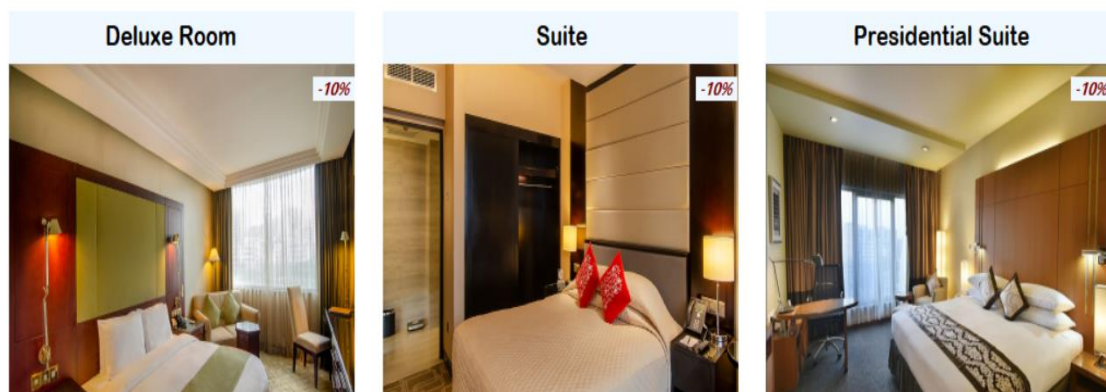



Figure-15: Guest room booking page

Rent : ~~2780.00~~ 2500.00  
\*Per Day

☐ Select Now

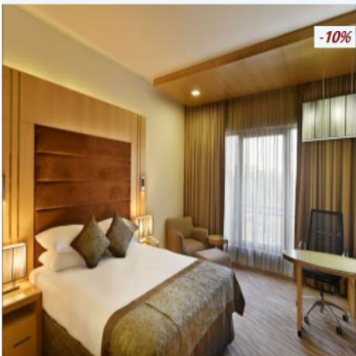
**Single Twin Bed**  


Rent : ~~2780.00~~ 2500.00  
\*Per Day

☐ Select Now

Rent : ~~2220.00~~ 2000.00  
\*Per Day

☐ Select Now


**Standard Room**  


Rent : ~~3330.00~~ 3000.00  
\*Per Day

☐ Select Now

Rent : ~~5550.00~~ 5000.00  
\*Per Day

☐ Select Now

**Oasis Comfort Suite**  


Rent : ~~3330.00~~ 3000.00  
\*Per Day


☐ Select Now

[NEXT](#)


Figure-16: Guest room booking page

Back


Services You want to add :



☒ Dining Lounge  
Charges : 00 BDT  
\*Complimentary Food



☒ Oasis Gym Service  
Charges : 500 BDT



☐ Swimming Pool  
Charges : 500 BDT

Next

Figure-17: Select services

Vehicle Info :

Vehicle Number:


Vehicle Brand :

Select your Vehicle Brand

Vehicle Type :

Select your Vehicle Type

Vehicle Color



Confirm Reservation

Figure-18: Add vehicles data

# Payment Checkout

[Back](#)[Logout](#)

Total Amount to pay : 13000.00

## Payment Method

☒

☐

☐

Cardholder Name :

Expiration Date :

Card Number :

CVC Code :

[Checkout](#)

Figure-19: Make payment

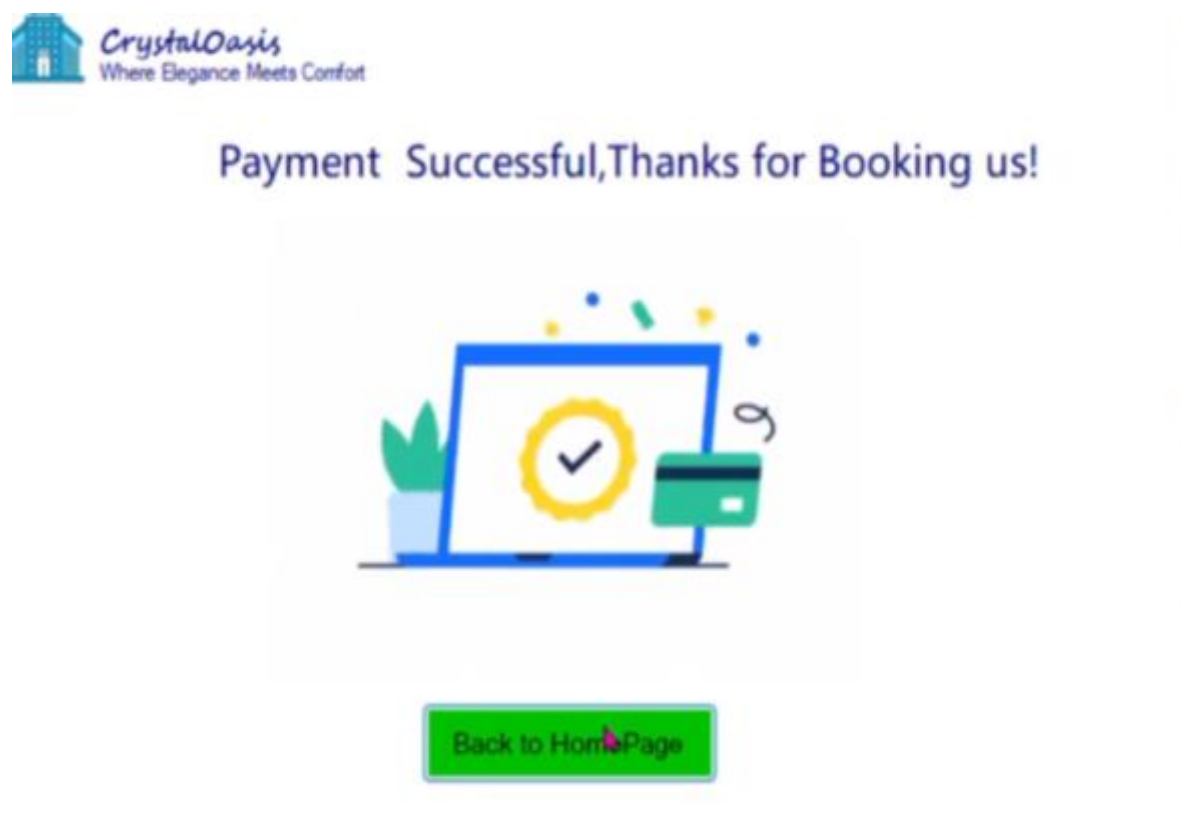


Figure-20: Payment confirmation