

CS355- DBMS Mini Project

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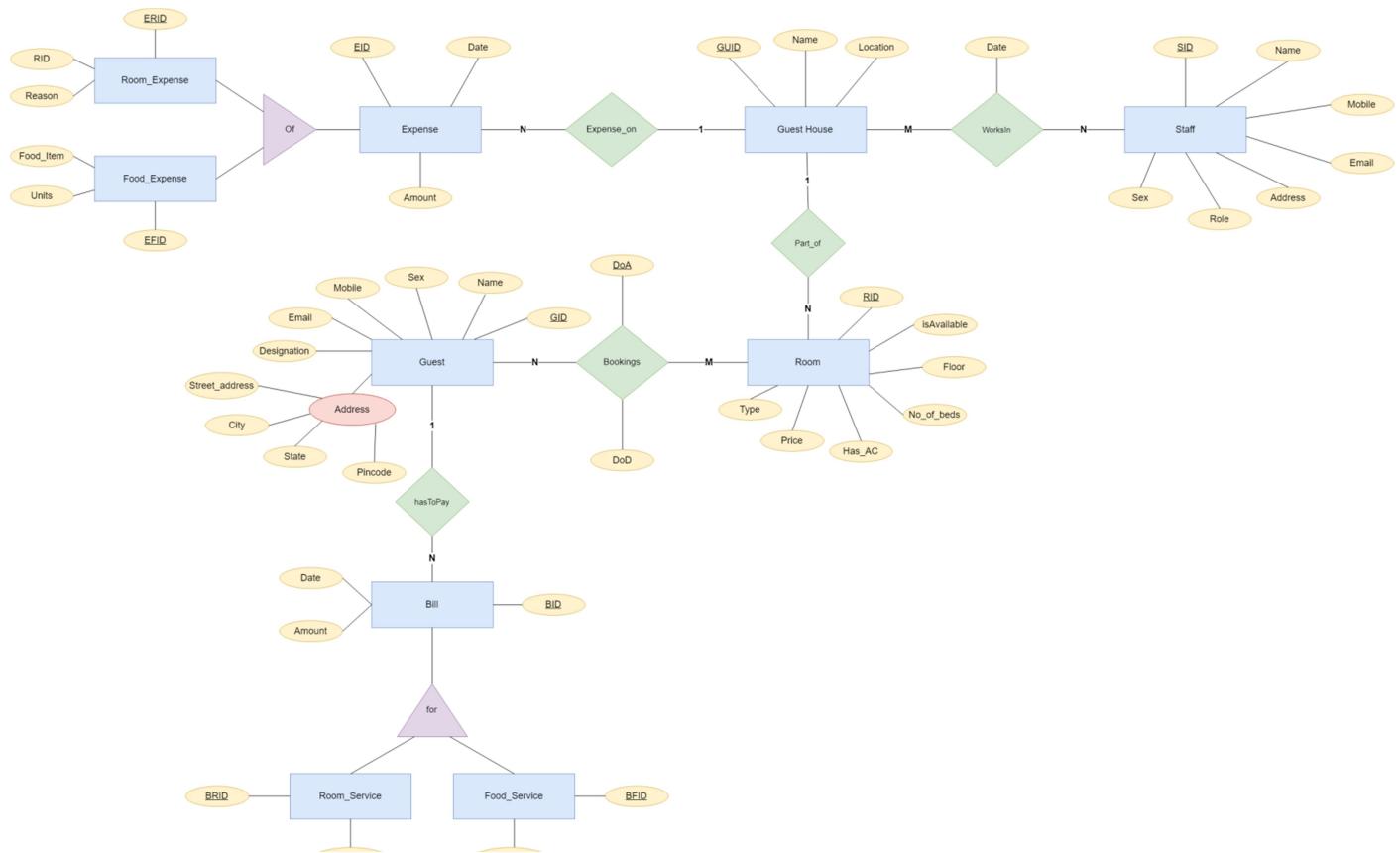
Goal: The goal of this mini project is to provide a realistic experience in the conceptual design, logical design, implementation, operation and maintenance of a small relational database.

Types of Services in our Application:

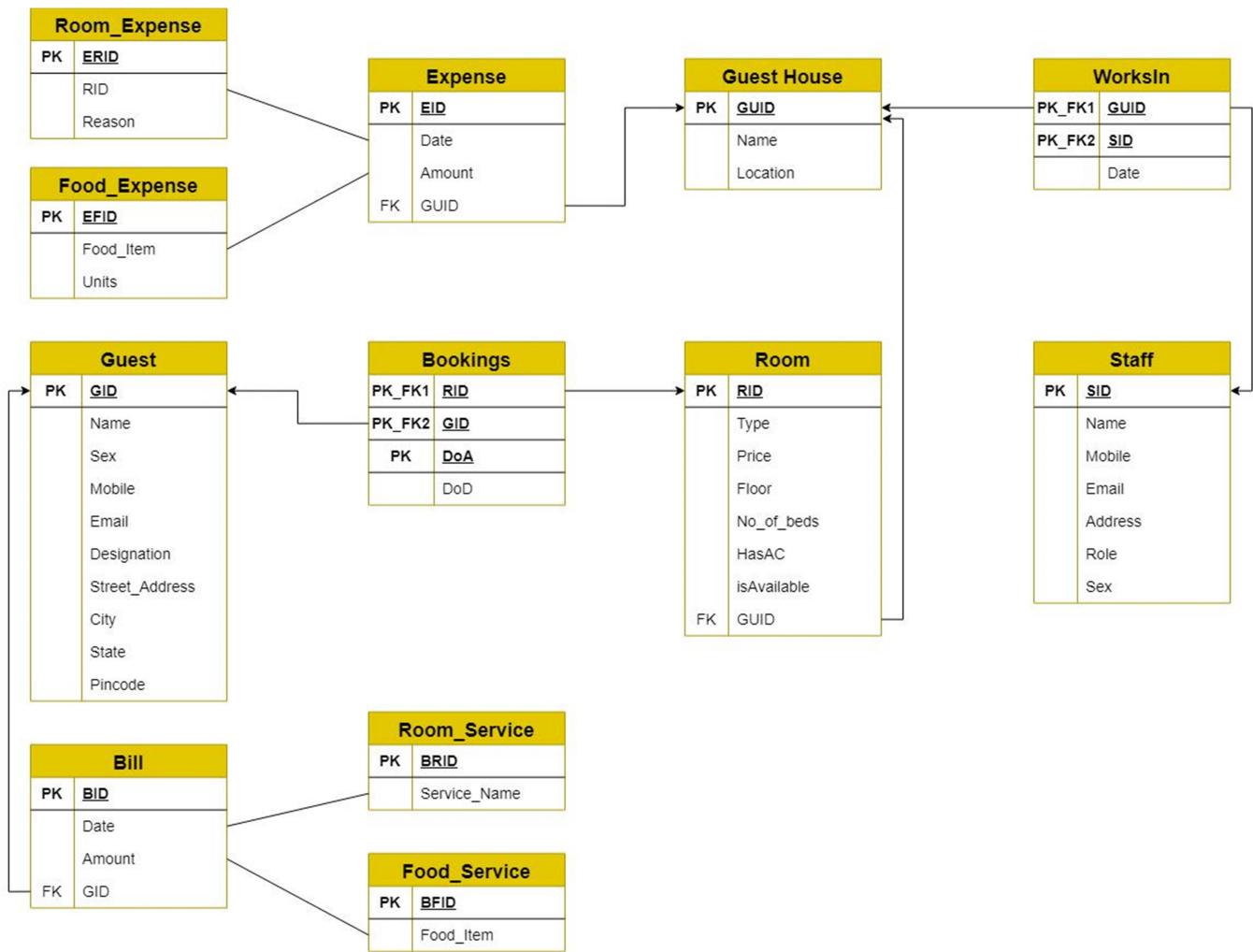
- Guest House
- Market Shop

Guest House

ER Diagram:



Relation Schema:



Description of database structure:

This database is made for guest house related services. It consists of total 10 entities:

- Bill
- Expense
- Food_Expense
- Food_service
- Guest
- Guest_house
- Room
- Room_expense
- Room_service
- Staff

It also consists of 5 relations:

- Expense_on: Connects expense and guest_house entities.
- WorksIn: Connects guest_house and staff entities.
- Part_of: Connects guest_house and room entities.
- Bookings: Connects guest and room entities.
- HasToPay: Connects guest and bill entities.

Entity 1: Bill

Attribute	Description	Type	Key
BID	Bill ID	int	PRI
Date	Date of Billing	date	-
Amount	Bill Amount	int	-
GID	Guest ID	int	MUL

Entity 2: Expense

Attribute	Description	Type	Key
EID	Expense ID	int	PRI
Date	Expense Date	date	-
Amount	Expense Amount	int	-
GUID	Guest House ID	int	MUL

Entity 3: Food_Expense

Attribute	Description	Type	Key
EFID	Expense Food ID	int	PRI
Food_item	Food Item	varchar(20)	-
Units	No. of units of Food	smallint	-

Entity 4: Food_Service

Attribute	Description	Type	Key
BFID	Bill Food ID	int	PRI
Food_item	Food Item Billed	varchar(20)	-

Entity 5: Guest

Attribute	Description	Type	Key
GID	Guest ID	int (auto increment)	PRI
Name	Guest Name	varchar(20)	-
Sex	Guest Gender	char(1)	-
Mobile	Guest Mobile No.	bigint	-
Email	Guest Email	varchar(20)	-
Designation	Guest Designation	varchar(20)	-
Street_Address	Guest Address	varchar(50)	-
City	Guest City	varchar(20)	-
State	Guest State	varchar(20)	-
Pincode	Guest Pincode	int	-

Entity 6: Guest_House

Attribute	Description	Type	Key
GUID	Guest House ID	int (auto increment)	PRI
Name	Guest House Name	varchar(20)	-
Location	Guest House Location	varchar(20)	-

Entity 7: Room

Attribute	Description	Type	Key
RID	Room ID	Int (auto increment)	PRI
Type	Room Type	Varchar(20)	-
Price	Room Pricing	Int	-
Floor	Floor no. of Room	smallint	-
No_of_beds	No. of beds in room	smallint	-
hasAC	Does room has AC	char(1)	-
isAvailable	Is room available	char(1)	-
GUID	Guest House ID	int	MUL

Entity 8: Room_Expense

Attribute	Description	Type	Key
ERID	Expense Room ID	int	PRI
RID	Room ID	int	-
Reason	Reason for expense	varchar(20)	-

Entity 9: Room_Service

Attribute	Description	Type	Key
BRID	Bill Room ID	int	PRI
Service_Name	Service for which billing is done	varchar(20)	-

Entity 10: Staff

Attribute	Description	Type	Key
SID	Staff ID	int (auto increment)	PRI
Name	Staff Name	varchar(20)	-
Sex	Staff Gender	char(1)	-
Mobile	Staff Mobile No.	bigint	-
Email	Staff Email	varchar(20)	-
Address	Staff Address	varchar(20)	-
Role	Staff Role	varchar(20)	

Relation 1: Bookings

Attribute	Description	Type	Key
RID	Room ID	int	PRI
GID	Guest ID	int	PRI
DoA	Date of Arrival	date	PRI
DoD	Date of Departure	date	-

Relation 2: WorksIn

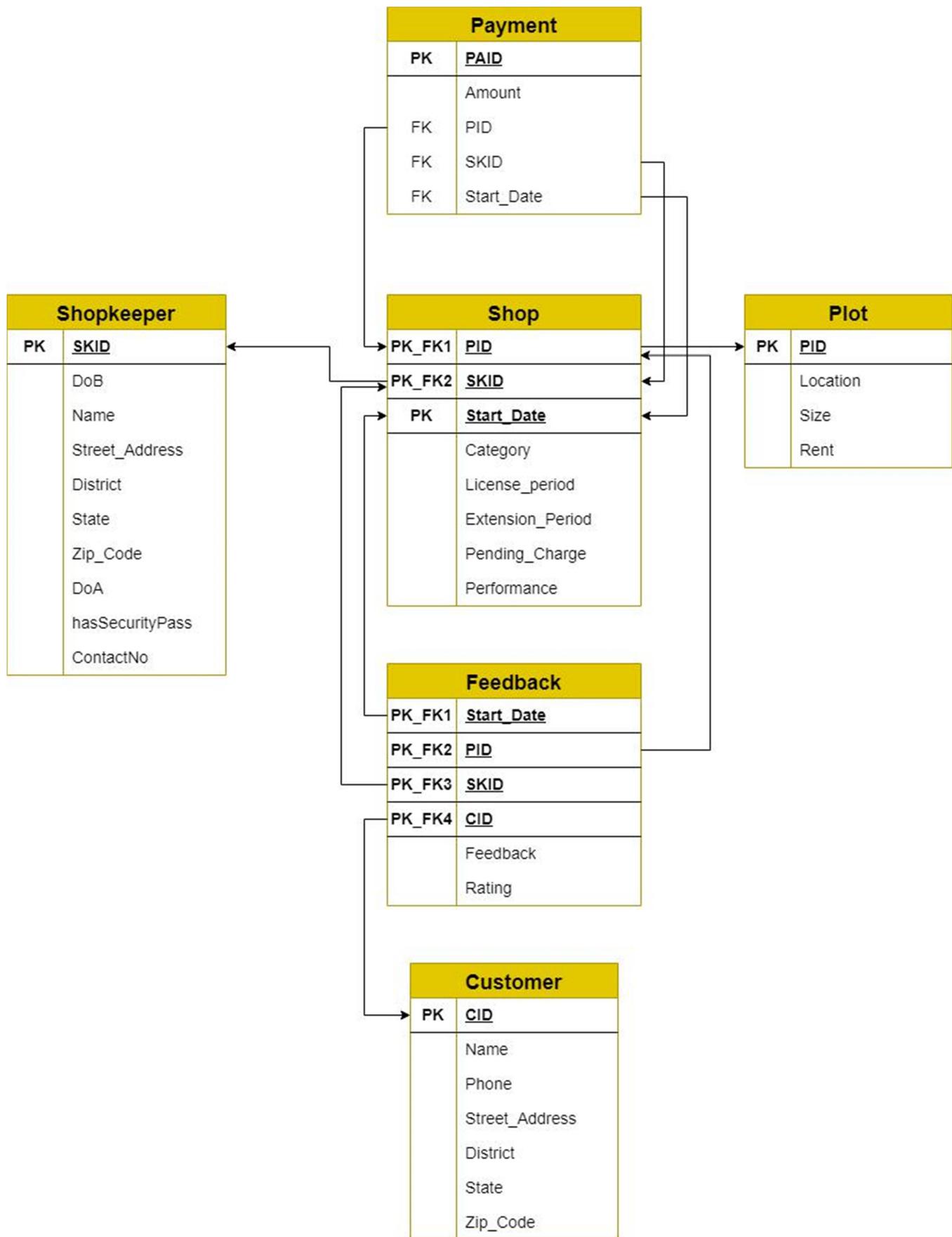
Attribute	Description	Type	Key
GUID	Guest House ID	int	PRI
SID	Staff ID	int	PRI
Date	Worked On Date	date	PRI

Market Shop:

ER Diagram



Relation Schema



Description of database structure:

This database is made for market shop related services. It consists of total 5 entities:

- Payment
- Shopkeeper
- Shop
- Customer
- Plot

It also consists of 4 relations:

- Payment_for: Connects payment and shop entities.
- Located_on: Connects shop and plot entities.
- Owner: Connects shop and shopkeeper entities.
- Feedback: Connects shop and customer entities.

Entity 1: Customer

Attribute	Description	Type	Key
CID	Customer ID	int (auto increment)	PRI
Name	Customer Name	varchar(20)	-
Phone	Customer Phone No.	bigint	-
Street_Address	Customer Address	varchar(50)	-
District	Customer District	varchar(20)	-
State	Customer State	varchar(20)	-
Zip_Code	Customer ZipCode	int	-

Entity 2: Payment

Attribute	Description	Type	Key
PAID	Guest ID	int (auto increment)	PRI
Amount	Guest Name	int	-
PID	Guest Gender	int	MUL
SKID	Guest Mobile No.	int	-
Start_Date	Guest Email	date	-

Entity 3: Plot

Attribute	Description	Type	Key
PID	Plot ID	int (auto increment)	PRI
Location	Plot Location	varchar(20)	-
Size	Plot Size	float	-
Rent	Plot Rent Amount	Int	-

Entity 4: Shop

Attribute	Description	Type	Key
PID	Plot ID	int	PRI
SKID	Shopkeeper ID	int	PRI
Start_Date	Shop Start Date	date	PRI
Category	Shop Category	varchar(20)	-
License_Period	Shop licensing period	Smallint	-
Extension_Period	Shop duration extension period	smallint	-
Pending_Charge	Pending charge from shop	int	-
Performance	Shop Performance	foat	-

Entity 5: Shopkeeper

Attribute	Description	Type	Key
SKID	Shopkeeper ID	Int (auto increment)	PRI
Name	Shopkeeper Name	varchar(20)	-
DoB	Shopkeeper Date of Birth	date	-
Street_Address	Shopkeeper Address	varchar(50)	-
District	Shopkeeper District	varchar(20)	-
State	Shopkeeper State	varchar(20)	-
Zip_Code	Shopkeeper Zipcode	int	-
DoA	Date of Application of Shopkeeper	date	-
hasSecurityPass	Does Shopkeeper has security pass	char(1)	-
ContactNo	Shopkeeper Contact No.	bigint	-

Relation 1: Feedback

Attribute	Description	Type	Key
Start_Date	Shop Start Date	date	PRI
PID	Plot ID	int	PRI
SKID	Shopkeeper ID	int	PRI
CID	Customer ID	int	PRI
Feedback	Feedback by customer on shop	text	-
Rating	Rating by customer to shop	smallint	-

Queries to create various tables:

Database: **Guest House**

```
● ● ●

1 CREATE DATABASE guest_house;
2
3 USE guest_house;
4 CREATE TABLE Room_Expense
5 (
6     ERID INT NOT NULL,
7     RID INT NOT NULL,
8     Reason VARCHAR(20),
9     PRIMARY KEY (ERID)
10 );
11
12 CREATE TABLE Food_Expense
13 (
14     EFID INT NOT NULL,
15     Food_item VARCHAR(20) NOT NULL,
16     Units SMALLINT NOT NULL,
17     PRIMARY KEY (EFID)
18 );
19
20
21 CREATE TABLE Guest
22 (
23     GID INT NOT NULL AUTO_INCREMENT,
24     Name VARCHAR(20) NOT NULL,
25     Sex CHAR,
26     Mobile BIGINT,
27     Email VARCHAR(20),
28     Designation VARCHAR(20),
29     Street_Address VARCHAR(50),
30     City VARCHAR(20),
31     State VARCHAR(20),
32     Pincode INT,
33     PRIMARY KEY (GID)
34 );
```

```
1 CREATE TABLE Bill
2 (
3     BID INT NOT NULL,
4     Date DATE,
5     Amount INT NOT NULL,
6     GID INT NOT NULL,
7     PRIMARY KEY (BID),
8     CONSTRAINT Bill_fk FOREIGN KEY (GID) REFERENCES Guest(GID)
9 );
10
11 CREATE TABLE Guest_House
12 (
13     GUID INT NOT NULL auto_increment,
14     Name VARCHAR(20) NOT NULL,
15     Location VARCHAR(20) NOT NULL,
16     PRIMARY KEY (GUID)
17 );
18
19 CREATE TABLE Expense
20 (
21     EID INT NOT NULL,
22     Date DATE,
23     Amount INT NOT NULL,
24     GUID INT NOT NULL,
25     PRIMARY KEY (EID),CONSTRAINT Expense_fk FOREIGN KEY(GUID) REFERENCES Guest_House(GUID)
26 );
27
28 CREATE TABLE Room
29 (
30     RID INT NOT NULL auto_increment,
31     Type VARCHAR(20),
32     Price INT,
33     Floor SMALLINT,
34     No_of_beds SMALLINT,
35     hasAC CHAR,
36     isAvailable CHAR,
37     GUID INT NOT NULL,
38     PRIMARY KEY (RID),
39     CONSTRAINT Room_fk FOREIGN KEY(GUID) REFERENCES Guest_House(GUID)
40 );
41
42 CREATE TABLE Bookings
43 (
44     RID INT NOT NULL,
45     GID INT NOT NULL,
46     DoA DATE NOT NULL,
47     DoD DATE NOT NULL,
48     PRIMARY KEY (RID, GID, DoA),
49     CONSTRAINT Bookings_fk1 FOREIGN KEY (RID) REFERENCES Room(RID), CONSTRAINT Bookings_fk2 FOREIGN KEY (GID) REFERENCES Guest(GID)
50 );
51
52 CREATE TABLE Room_Service
53 (
54     BRID INT NOT NULL,
55     Service_Name VARCHAR(20) NOT NULL,
56     PRIMARY KEY (BRID)
57 );
```

```

1 CREATE TABLE Food_Service
2 (
3     BFID INT NOT NULL,
4     Food_item VARCHAR(20) NOT NULL,
5     PRIMARY KEY (BFID)
6 );
7
8 CREATE TABLE Staff
9 (
10    SID INT NOT NULL AUTO_INCREMENT,
11    Name VARCHAR(20) NOT NULL,
12    Sex CHAR,
13    Mobile BIGINT,
14    Email VARCHAR(20),
15    Address VARCHAR(20),
16    Role VARCHAR(20),
17    PRIMARY KEY (SID)
18 );
19
20 CREATE TABLE WorksIn(
21     GUID INT NOT NULL,
22     SID INT NOT NULL,
23     Date DATE NOT NULL,
24     PRIMARY KEY (GUID, SID, Date),
25     CONSTRAINT WorksIn_fk1 FOREIGN KEY (GUID) REFERENCES Guest_House(GUID), CONSTRAINT WorksIn_fk2 FOREIGN KEY (SID) REFERENCES Staff(SID)
26 );

```

Database: Market

```

29 CREATE DATABASE market;
30 USE market;
31
32 CREATE TABLE Shopkeeper
33 (
34     SKID INT NOT NULL AUTO_INCREMENT,
35     Name VARCHAR(20) NOT NULL,
36     DoB DATE,
37     Street_Address VARCHAR(50),
38     District VARCHAR(20),
39     State VARCHAR(20),
40     Zip_Code INT,
41     DoA DATE NOT NULL,
42     hasSecurityPass CHAR(1),
43     ContactNo BIGINT,
44     PRIMARY KEY (SKID)
45 );
46
47
48 CREATE TABLE Plot
49 (
50     PID INT NOT NULL AUTO_INCREMENT,
51     Location VARCHAR(20),
52     Size FLOAT,
53     Rent INT,
54     PRIMARY KEY (PID)
55 );
56
57
58 CREATE TABLE Shop
59 (
60     PID INT NOT NULL,
61     SKID INT NOT NULL,
62     Start_Date DATE NOT NULL,
63     Category VARCHAR(20),
64     License_Period SMALLINT,
65     Extension_Period SMALLINT,
66     Pending_Charge INT,
67     Performance FLOAT,
68     PRIMARY KEY (PID, SKID, Start_Date),
69     CONSTRAINT Shop_fk1 FOREIGN KEY (PID) REFERENCES Plot(PID), CONSTRAINT Shop_fk2 FOREIGN KEY (SKID) REFERENCES Shopkeeper(SKID)
70 );

```

```
1 CREATE TABLE Customer
2 (
3     CID INT NOT NULL AUTO_INCREMENT,
4     Name VARCHAR(20) NOT NULL,
5     Phone BIGINT,
6     Street_Address VARCHAR(50),
7     District VARCHAR(20),
8     State VARCHAR(20),
9     Zip_Code INT,
10    PRIMARY KEY (CID)
11 );
12
13
14 CREATE TABLE Feedback(
15     Start_Date DATE NOT NULL,
16     PID INT NOT NULL,
17     SKID INT NOT NULL,
18     CID INT NOT NULL,
19     Feedback TEXT,
20     Rating SMALLINT,
21     PRIMARY KEY (Start_Date, PID, SKID, CID),
22     CONSTRAINT Feedback_fk1 FOREIGN KEY (CID) REFERENCES Customer(CID), CONSTRAINT Feedback_fk2 FOREIGN KEY (PID, SKID, Start_Date) REFERENCES
23     Shop(PID, SKID, Start_Date)
24 );
25
26
27 CREATE TABLE Payment
28 (
29     PAID INT NOT NULL auto_increment,
30     Amount INT NOT NULL,
31     PID INT NOT NULL,
32     SKID INT NOT NULL,
33     Start_Date DATE NOT NULL,
34     PRIMARY KEY (PAID),
35     CONSTRAINT Payment_fk1 FOREIGN KEY (PID, SKID, Start_Date) REFERENCES
36     Shop(PID, SKID, Start_Date)
37 );
```

Triggers

1. **after_bookings_insert:** After trigger for marking room as booked on booking a room

Database: Guest House

```
● ○ ●  
1  DELIMITER $$  
2  CREATE TRIGGER after_bookings_insert  
3    AFTER INSERT  
4      ON Bookings FOR EACH ROW  
5      BEGIN  
6        UPDATE Room SET isAvailable = 'F' WHERE Room.RID = new.RID;  
7      END $$  
8  DELIMITER ;  
9
```

This trigger is used to auto-update the room availability once someone books a room. The “isAvailable” attribute is changed to ‘F’ once a room is successfully booked.

2. **after_feedback_insert:** After trigger to calculate performance from rating

Database: Market Shop

```
● ○ ●  
1  DELIMITER $$  
2  CREATE TRIGGER after_feedback_insert  
3    AFTER INSERT  
4      ON Feedback FOR EACH ROW  
5      BEGIN  
6        DECLARE avg_rating FLOAT DEFAULT 0;  
7        SELECT SUM(Rating)/COUNT(*) INTO avg_rating  
8        FROM Feedback  
9        WHERE Feedback.SKID = new.SKID  
10       AND Feedback.PID = new.PID  
11       AND Feedback.Start_Date = new.Start_Date;  
12        UPDATE Shop SET Performance = avg_rating WHERE Shop.SKID = new.SKID  
13       AND Shop.PID = new.PID AND Shop.Start_Date = new.Start_Date;  
14      END $$  
15  DELIMITER ;  
16
```

This trigger is used to automatically update the shop performance once a new feedback is inserted. Performance is simply the average rating of the shop.

3. **after_payment_insert**: After trigger to update pending charge

Database: Market Shop

```
1  DELIMITER $$  
2  CREATE TRIGGER after_payment_insert  
3    AFTER INSERT  
4    ON Payment FOR EACH ROW  
5    BEGIN  
6      UPDATE Shop  
7      SET Pending_Charge = Pending_Charge - new.Amount  
8      WHERE Shop.SKID = new.SKID  
9      AND Shop.PID = new.PID  
10     AND Shop.Start_Date = new.Start_Date;  
11    END $$  
12  DELIMITER ;
```

This trigger is used to automatically update the pending charge of a shop. Once a payment has been made by the shopkeeper, the same amount is deducted from the pending charge stored in the database to update the pending charge.

Scheduled Event

1. **update_room_availability**: Scheduled event to update room availability status

Database: Guest House

```
1  CREATE EVENT update_room_availability  
2    ON SCHEDULE EVERY 1 HOUR  
3    STARTS CURRENT_TIMESTAMP  
4    DO  
5      UPDATE Room  
6      SET isAvailable = 'T' WHERE Room.RID NOT IN(  
7      SELECT DISTINCT(Bookings.RID) FROM Bookings WHERE Bookings.DoD > CURDATE()  
8    );
```

This event is scheduled to run at an interval of one hour, indefinitely. If for a booked room, the date of departure is greater than the current date, the room is marked as available for new booking.

Procedures

1. **generate_bill** : This procedure is used to generate bills for a guest. It takes the guest ID as input and gives the Bill ID, Guest ID, Billing Date and the Bill Amount for the guest.

Database: Guest House



```
1  DELIMITER $$  
2  CREATE PROCEDURE generate_bill(IN iGID INT)  
3  BEGIN  
4  SELECT BID, GID, Date, Amount FROM Bill WHERE GID = iGID;  
5  END $$  
6  DELIMITER ;
```

2. **monthly_expenditure** : This procedure gives the total expenditure in the given month of a year for the guest houses. It takes yearMonth as input and gives the Guest House ID and total monthly expenditure for that guest house.

Database: Guest House



```
1  DELIMITER $$  
2  CREATE PROCEDURE monthly_expenditure(IN iYear_Month INT)  
3  BEGIN  
4  SELECT GUID, CONCAT(EXTRACT(YEAR FROM Date,"-",EXTRACT(MONTH FROM Date)) as YM, SUM(Amount) AS Total_Expenditure  
5  
6  FROM Expense WHERE CONCAT(EXTRACT(YEAR_MONTH FROM Date,"")) = CONCAT(iYear_Month,"") GROUP BY GUID;  
7  END $$  
8  DELIMTTER ;
```

Total Entries in various tables

Table Name	Total_Entries
Bill	20
Bookings	10
Expense	16
Food_Expense	8
Food_Service	10
Guest	20
Guest_House	4
Room	30
Room_Expense	8
Room_Service	10
Staff	30
WorksIn	30
Customer	15
Feedback	2
Payment	2
Plot	15
Shop	15
Shopkeeper	15

Sample Queries

Guest House:

- 1. Monthly Bookings for guest houses in different categories:** Returns all the booking information (guest information, room information and booking details) of a particular month of a year.



```
1 SELECT Guest.GID, Guest.Name, Room.RID, Room.Type, EXTRACT(YEAR_MONTH FROM Bookings.DoA) as Booking_Month, Bookings.DoD
2 FROM Guest INNER JOIN Bookings ON Bookings.GID = Guest.GID INNER JOIN Room ON Room.RID = Bookings.RID
3 GROUP BY Booking_month;
```

- 2. The total monthly expenditure for the guest house:** Uses a procedure call to find the expenditure on guest houses of a particular month of a year. The procedure takes year and month as input.



```
1 CREATE PROCEDURE monthly_expenditure(IN iYear_Month INT)
2 BEGIN
3 SELECT GUID, CONCAT(EXTRACT(YEAR FROM Date),"-",EXTRACT(MONTH FROM Date)) as YM, SUM(Amount) AS Total_Expenditure
4 FROM Expense
5 WHERE CONCAT(EXTRACT(YEAR_MONTH FROM Date), "") = CONCAT(iYear_Month, "") GROUP BY GUID;
6 END $$ 
7 DELIMITER ;
8 CALL monthly_expenditure($query_yearMonth);
```

- 3. Generation of bills:** Uses a procedure call to generate bills for the guests. The procedure takes a guest ID to generate bills.



```
1 DELIMITER $$ 
2 CREATE PROCEDURE generate_bill(IN iGID INT)
3 BEGIN
4     SELECT BID, GID, Date, Amount FROM Bill WHERE GID = iGID;
5 END $$ 
6 DELIMITER ;
7 CALL generate_bill('$query_sagid');
```

4. Availability of rooms: Shows the details of all the available rooms.



```
1  SELECT * FROM Room WHERE isAvailable = 'T';
```

5. Monthly food billing: Shows the food billing information (Billing information and food information) for all possible months and years.



```
1
2  SELECT Bill.BID, Bill.GID, EXTRACT(YEAR_MONTH FROM Bill.Date) AS Food_Billing_Month, Bill.Amount, Food_Service.Food_Item
3  FROM Bill INNER JOIN Food_Service ON Bill.BID = Food_Service.BFID GROUP BY Food_Billing_Month;
```

6. Staff schedule: Shows the staff work schedule for the guest houses.



```
1  SELECT Staff.SID, Staff.Name, Guest_House.GUID, Guest_House.Name, WorksIn.Date
2  FROM Guest_House
3  INNER JOIN WorksIn ON Guest_House.GUID = WorksIn.GUID
4  INNER JOIN Staff ON Staff.SID = WorksIn.SID
5  ORDER BY WorksIn.Date DESC;
```

Market Shop:

- 1. Current shop details of different areas of the campus:** Shows the shop's details (Shopkeeper details, shop details and plot details) of all shops.



```
1 SELECT Shopkeeper.SKID, Shopkeeper.Name,
2 Plot.PID, Plot.Location, Plot.Rent,
3 Shop.Category, Shop.Start_Date, Shop.License_Period, Shop.Extension_Period, Shop.Pending_Charge, Shop.Performance
4 FROM Shop
5 INNER JOIN Shopkeeper ON Shopkeeper.SKID = Shop.SKID INNER JOIN Plot ON Plot.PID = Shop.PID;
```

- 2. Details of shopkeepers and their security pass validity:** Shows the Shopkeeper details such as their name, address and security pass.



```
1 SELECT * FROM Shopkeeper;
```

- 3. Reminders for expiring license agreement period:** Shows all the shops whose licenses are about to expire (within 30 days) or have already expired.



```
1 SELECT SKID, PID, Start_Date, DATEDIFF(DATE_ADD(Start_Date, INTERVAL
2 (License_Period+Extension_Period) MONTH), CURDATE()) as Diff FROM Shop WHERE DATEDIFF(DATE_ADD(Start_Date, INTERVAL (License_Period+Extension_Period)
3 MONTH), CURDATE()) <= 30;
```

- 4. Pending charges from each shop:** Shows the shop information and pending charge for the shops.



```
1 SELECT SKID, PID, Start_Date, Pending_Charge FROM Shop;
```

5. Summary of performances of each shop: Shows the shop information and shop performance for each shop.



```
1  SELECT SKID, PID, Start_Date, Performance FROM Shop;
```

6. Available plots to open shop: Shows all the plots which are currently free to open shop.



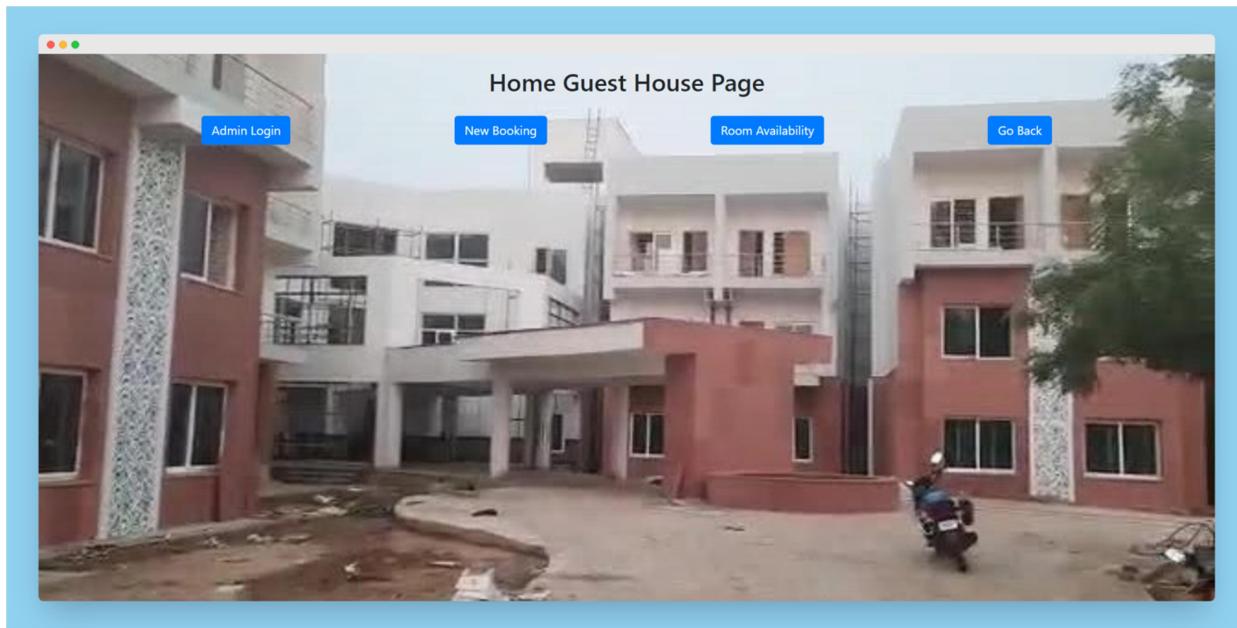
```
1  SELECT * FROM Plot WHERE PID NOT IN (
2    SELECT PID FROM Shop
3    WHERE DATE_ADD(Start_Date, INTERVAL (License_Period+Extension_Period)
4      MONTH) > CURDATE()
5  );
```

Web Page Screenshots

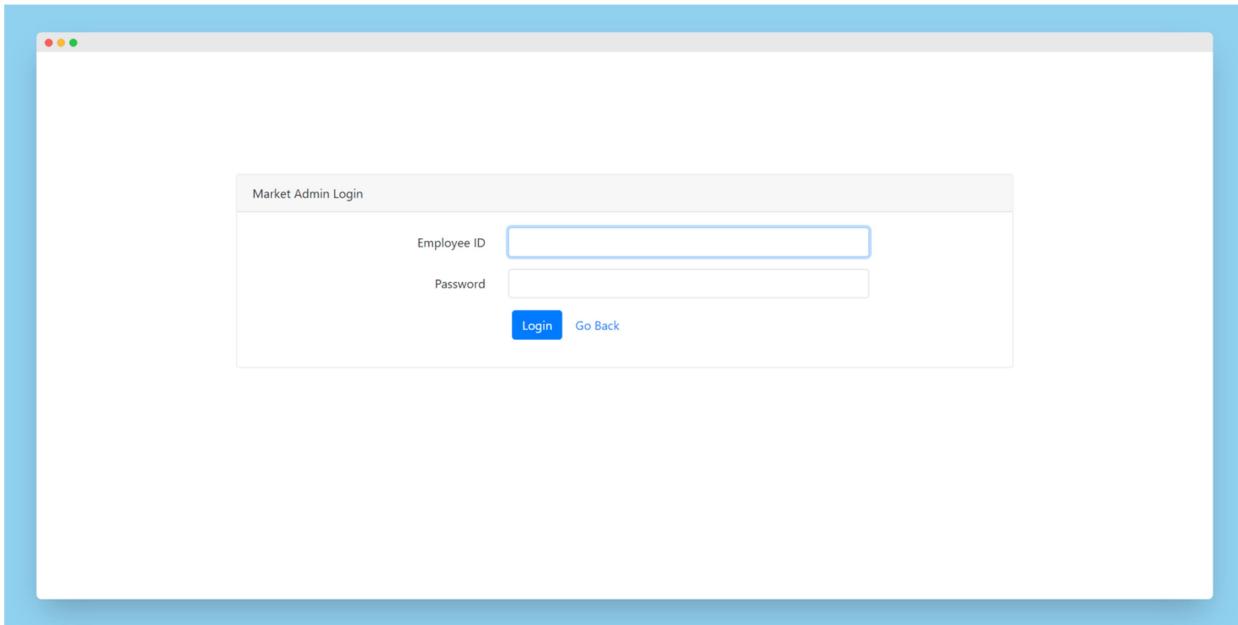
Home Page:



Guest House Menu:



Admin Login:



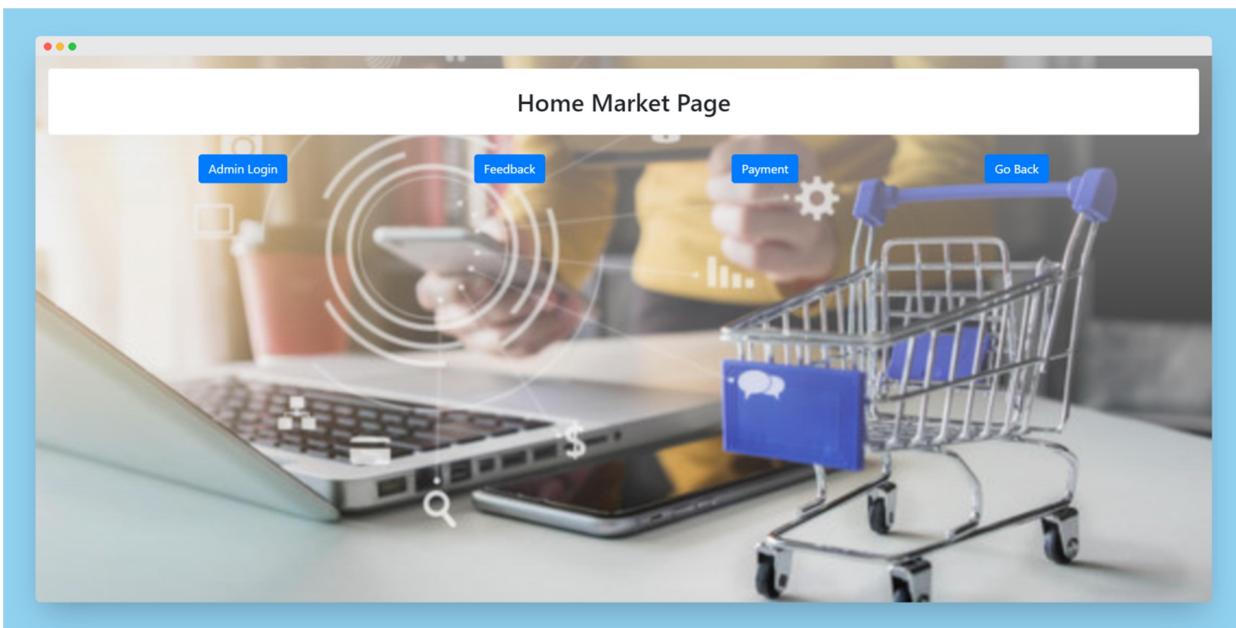
New Booking:

A screenshot of a computer window titled "New Booking". The form consists of twelve input fields, each with a placeholder label above it: Name, Sex, Mobile, Email, Designation, Street Address, City, State, Pincode, Room ID, Date of Arrival, and Date of Departure. A large green "Submit" button is located at the bottom right of the form.

Room Availability

Details						
RID	Type	Price	Floor	No of Beds	AC	GUID
1	B	48660	3	3	Yes	2
7	C	46111	1	1	No	3
8	B	39219	4	2	No	1
9	A	40005	5	1	No	2
12	A	41650	5	3	Yes	2
14	B	52454	4	4	Yes	1
17	C	58137	5	1	Yes	4
19	B	37507	1	3	No	1
20	C	26999	1	3	No	1
21	A	52774	2	1	Yes	1
22	C	31229	1	3	No	2
23	C	25815	2	3	No	4
24	A	21978	4	2	Yes	4

Home Market Menu:



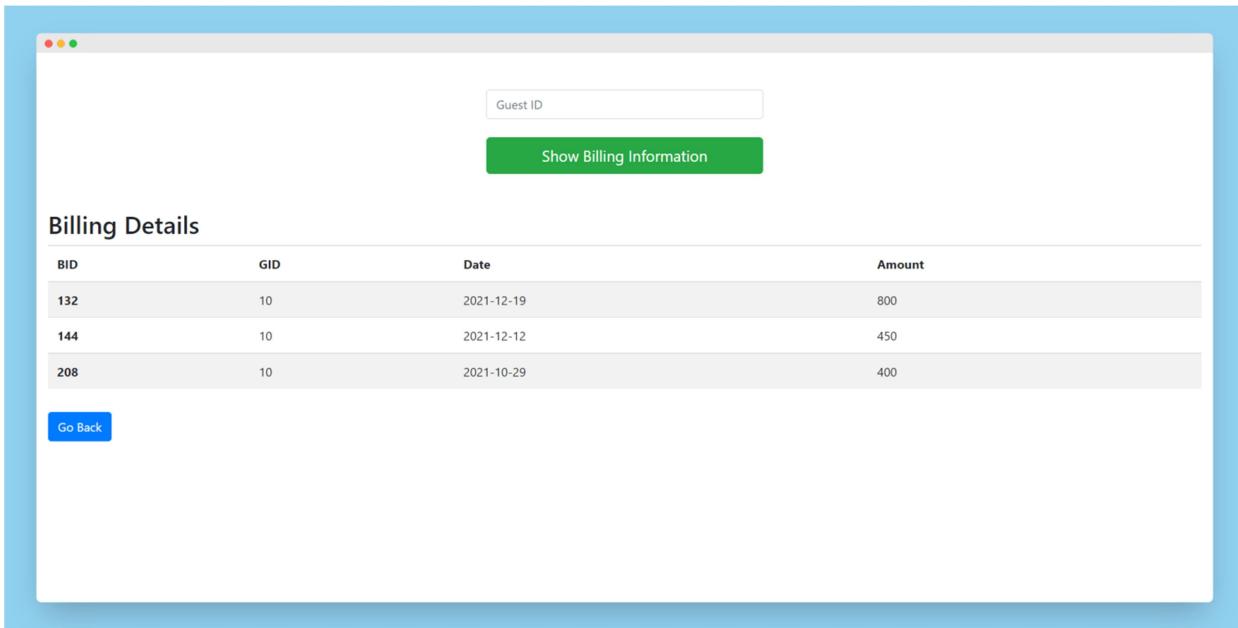
Feedback:

A screenshot of a feedback form window titled "Feedback". The window has a light gray header bar with three red, yellow, and green window control buttons at the top-left. The main content area is white and contains six input fields arranged vertically: "ShopKeeper ID", "Plot ID", "Start Date", "Customer ID", "Feedback", and "Rating (Out of 5)". Below these fields is a large green "Submit" button. At the bottom of the window, there is a small gray footer bar with the text "Cancel Feedback? [Go Back](#)".

Payment

A screenshot of a payment form window titled "Payment". The window has a light gray header bar with three red, yellow, and green window control buttons at the top-left. The main content area is white and contains four input fields arranged vertically: "ShopKeeper ID", "Plot ID", "Start Date", and "Amount". Below these fields is a large green "Submit" button. At the bottom of the window, there is a small gray footer bar with the text "Cancel Payment? [Go Back](#)".

Generate Bill



Source Code:

https://github.com/kunwarAbhay/campus_amenities

Google Drive Link:

https://drive.google.com/drive/folders/1o3Yi_pSlr2mVM1bO9Q0Td4_RjAhBBiFZ