Green University of Bangladesh
Department of Computer Science and Engineering (CSE)
Faculty of Sciences and Engineering
Semester: (Fall, Year: 2022), B.Sc. in CSE (Day)

Course Title: Data Structure Lab
Course Code: CSE 106   Section: 213-D6

Lab Project Name: HOTEL MANAGEMENT SYSTEM

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Chapter 1

Introduction

1.   Introduction

This is a hotel management system developed by Java programming language. Here, the managements of a hotel can easily handle and do the necessary things by this app. This system will make the management work easier.

2.   Design Goals/Objective

Our main goal of this project is-

1. See room details

2. See room availability

3. Booking system of room

4. Food ordering system

5. Checkout system

6. all other facility system

Chapter 2

Design/Development/Implementation of the Project

1.   Features

```
Enter Your Choice :
1.Show Room Details
2.Show Room Availability
3.Book Room
4.Order Food
5.Checkout Now
6.Know Others Facility
7.Quit
```

1.1.   Feature 1: See room details

```
Choose Room Type :
1.Luxury Double Bedroom
2.Deluxe Double Bedroom
3.Luxury Single Bedroom
4.Deluxe Single Bedroom

1

Number of double beds : 1
AC : Yes
Free breakfast : Yes
Charge per day:4000

Continue : (y/n)
```

1.2. Feature2: Show room availability

```
Choose Room Type :
1.Luxury Double Bedroom
2.Deluxe Double Bedroom
3.Luxury Single Bedroom
4.Deluxe Single Bedroom


1
Number of rooms available : 9
```

1.3. Feature3: Book Room

```
Choose room number from :
1,2,4,5,6,7,8,9,10,
Enter room number: 8

Enter customer name: Rimon
Enter contact number: 0170000000
Enter gender: male
Enter second customer name: niti
Enter contact number: 0190000000
Enter gender: female
Room Booked

Continue : (y/n)
```

1.4. Feature4: Order Food

```
Room Number -8


==========
   Menu:
==========


1.Sandwich  Rs.50
2.Pasta      Rs.60
3.Noodles    Rs.70
4.Coke       Rs.30


2
Quantity- 3
```

1.5. Feature5: Checkout Now

```
5

Room Number -10

Empty Already
```

1.6. Feature6: Know Others Facility

```
6

Common Swimming pool cost: 300 BDT per hour!
VIP Personal pool cost: 4000BDT per hour!
3D Movie 4k: 1200 BDT/ticket
General Movie: 300 BDT/ticket
```

2. Challenges Faced

1.1. Working with database

1.2. Data saving and resetting

1.3. Booking system

1.4. Food ordering system and cost analysis according to each room

Chapter 3

Performance Evaluation

1. **Output**

```
Enter Your Choice :
1.Show Room Details
2.Show Room Availability
3.Book Room
4.Order Food
5.Checkout Now
6.Know Others Facility
7.Quit
```

```
Choose room number from :
1,2,4,5,6,7,8,9,10,
Enter room number: 8

Enter customer name: Rimon
Enter contact number: 0170000000
Enter gender: male
Enter second customer name: niti
Enter contact number: 0190000000
Enter gender: female
Room Booked

Continue : (y/n)
```

```
Room Number -8


=========
   Menu:
=========

1.Sandwich  Rs.50
2.Pasta     Rs.60
3.Noodles   Rs.70
4.Coke      Rs.30


2
Quantity- 3
```

2. Discussions

2.1. Achievements
- **Used the main things of OOP to develop this project.**
2.2. Bugs
- **Data saving**

Chapter 4

Conclusion

1.   Introduction

This is a hotel management system developed by Java programming language. Here, the managements of a hotel can easily handle and do the necessary things by this app. This system will make the management work easier.

1.   Practical Implications

This project can be used in any hotel to make their management system easier.

2.   Scope of Future Work

-   Adding more strong database system

-   Implement Graphical User Interface

-   Adding more feature embed with this app

-   Make this app available for any types of platform.

References