

AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)

Dept. of Computer Science Faculty of Science and Technology

CSC2210: OBJECT ORIENTED PROGRAMMING 2

Summer 2023-2024

Section: B

Project Report On Hotel Management System

Supervised By Jahid Hassan

Submitted By:

Name	ID
1. Abul Bashar Saurov	22-48823-3
2. Md Sajib Mondol	22-48824-3

Obtained Marks for CO2 and CO3 (Description given in the following page)

Assessment Criteria	Not Atte Incorre		Inadequate (1-2)	Average (3)	Good (4)	Excellent (5)
Evaluation Criteria (CO2)		Total =	otal = Evaluation Criteria (CO3)		Total =	
Requirement fulfil	lment			Organization of the application		
Validation				Representation and Integration of Database		
Verification				Graphical User	Interface	

Hotel Management System

Introduction

A Hotel Management System (HMS) is software that automates and streamlines a hotel's operational duties. It integrates many departments and tasks to provide a complete solution for managing all elements of hotel operations.

- Admin
- Employee
- Customer
- Room
- Reservation

User Story

Admin

The admin of Hotel Management System is a crucial component that provides users of Hotel Management System platform with a rich experience. The admin can monitor the status of users and agents. Admin tasks include evaluating user transactions, collection and management, policy enforcement for service delivery, approval of collections, display and guidance, and various types of reporting. Through this service, the admin of Hotel Management System ensures users have a healthy and secure experience.

Employee

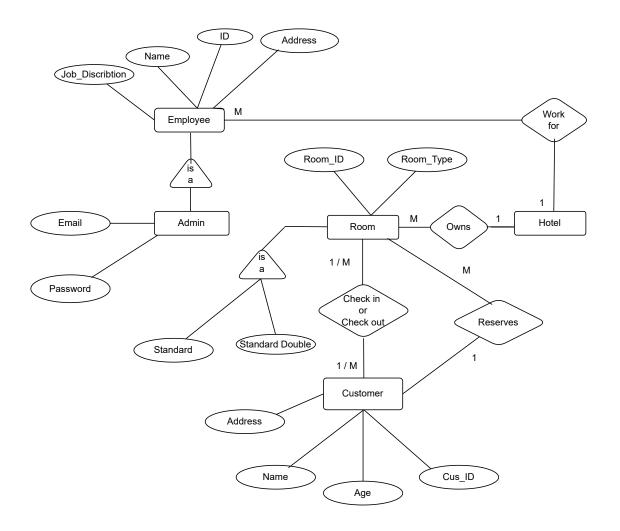
Employee logs into the HMS to evaluate the schedule for the day as well as any assignments that are urgent. They are aware that a visitor has asked to check out later than usual. They make the necessary adjustments to the system and then send an email to the visitor giving them confirmation.

A new visitor comes to check in at the hotel. They provide a cordial greeting to them and then utilize the HMS to cross-check their reservation and give them a room and hand them the key to their room and go over the many facilities that the hotel has to offer.

Customer

Customer shows their reservation number while entering the hotel. The HMS helps the receptionist to confirm the reservation and allocate a room. The client is handed the room key along with details on the features of the space. The consumer chooses to request room service later. Requesting room service, the client phones the front desk. The front desk personnel orders using the HMS and let the kitchen know. The consumer receives the room service order right in their room.

ER Diagram



ER Diagram of Hotel Management System.

Create Query:

```
CREATE TABLE [dbo].[UserInfo]
       [Id] INT NOT NULL PRIMARY KEY IDENTITY(100, 1),
  [Email] NVARCHAR(50) NOT NULL,
  [Password] NVARCHAR(50) NOT NULL,
  [Name] NVARCHAR(50) NOT NULL,
  [User Type] NVARCHAR(50) NOT NULL
CREATE TABLE [dbo].[Employee]
       [Id] INT NOT NULL PRIMARY KEY IDENTITY(100, 1),
  [Name] NVARCHAR(50) NOT NULL,
  [Job Description] NVARCHAR(50) NOT NULL,
  [Address] NVARCHAR(50) NOT NULL
CREATE TABLE [dbo].[Customer]
       [Id] INT NOT NULL PRIMARY KEY IDENTITY(100, 1),
  [Name] NVARCHAR(50) NOT NULL,
  [Age] NVARCHAR(50) NOT NULL,
  [Phone Number] NVARCHAR(50) NOT NULL,
  [Address] NVARCHAR(50) NOT NULL
CREATE TABLE [dbo].[Room]
       [Id] INT NOT NULL PRIMARY KEY IDENTITY(100, 1),
  [RoomType] NVARCHAR(50) NOT NULL
CREATE TABLE [dbo].[RoomRent]
       [Id] INT NOT NULL PRIMARY KEY IDENTITY(100, 1),
  [CustomerID] INT NOT NULL,
  [RoomID] INT NOT NULL,
  [Amount] INT NOT NULL,
  CONSTRAINT [FK_RoomRent_ToCustomer] FOREIGN KEY ([CustomerID]) REFERENCES [Customer]([Id]),
  CONSTRAINT [FK_RoomRent_ToRoom] FOREIGN KEY ([RoomID]) REFERENCES [Room]([Id])
```

User Interface

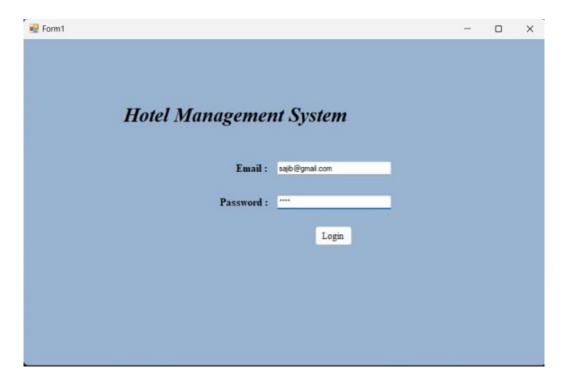


Figure: Login Page.

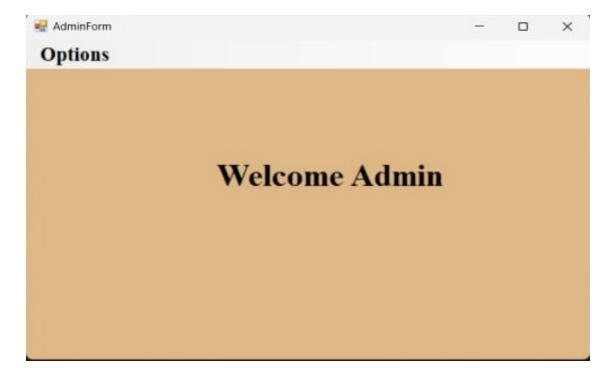


Figure: After completing the login process then show the Admin Interface.

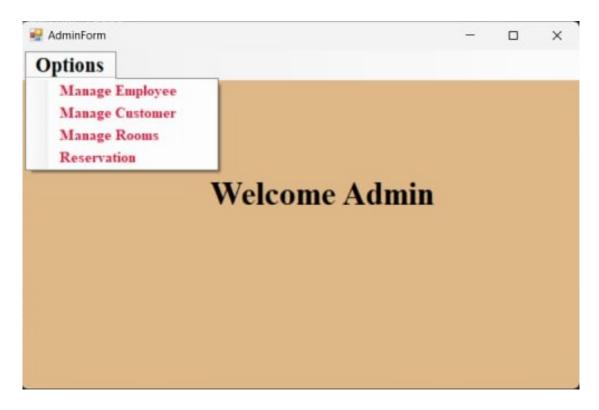


Figure: In Admin page, here we add the option menu.

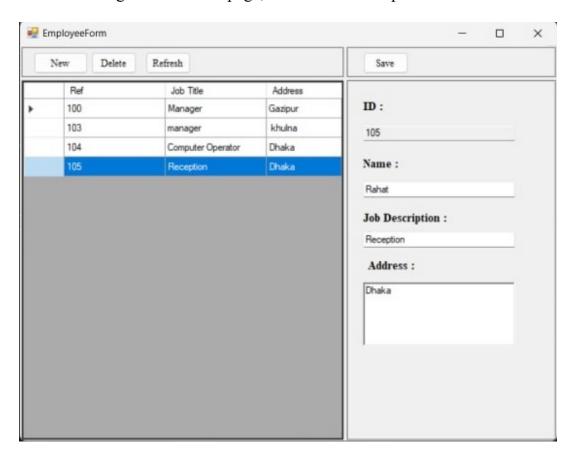


Figure: From option menu we select Employee and here are the Employee details and we can add, delete, save and refresh the details.

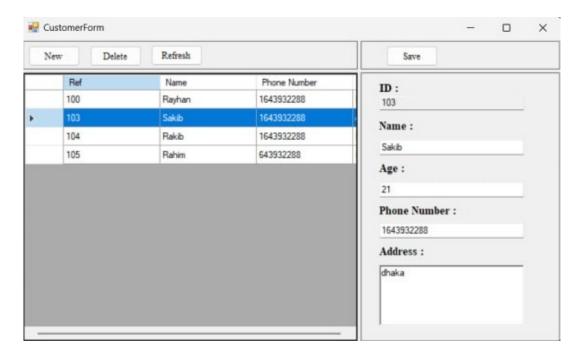
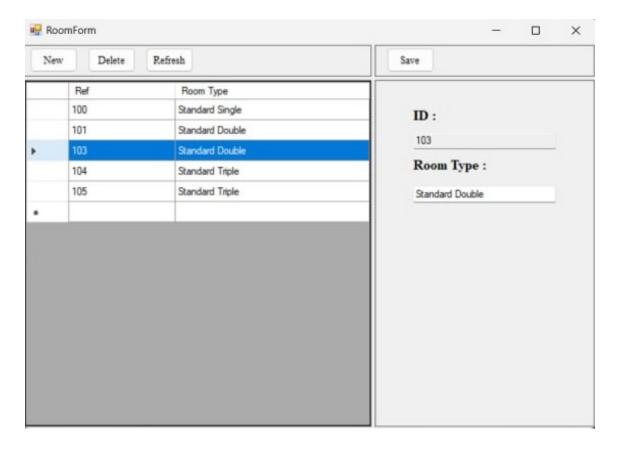


Figure: From option menu we select Customer and here are the Customer details and we can add, delete, save and refresh the details.



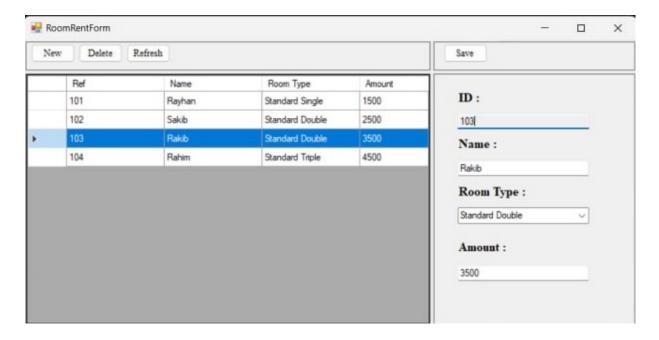


Figure: From option menu we select Reservation and here are the Reservation details and we can add, delete, save and refresh the details.