



American International University- Bangladesh

CSC 2209: Object Oriented Programming 1 (JAVA)

CO1 Evaluation Project Summary Report Fall 19-20

Group No: 14

Project Title: Hotel Management System

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Hotel Management System

Introduction:

We are doing hotel management system because it helps the authority to easily manage their hotels. In this project we are also making it easier for a customer to reserve a hotel room. Hotel management system is developed to ensure the security and easily accessibility of information of hotels.

User Category:

There are two types of Users here. They are:

- Admin
- Employee

Feature List:

In this project the “Employee” has the following features:

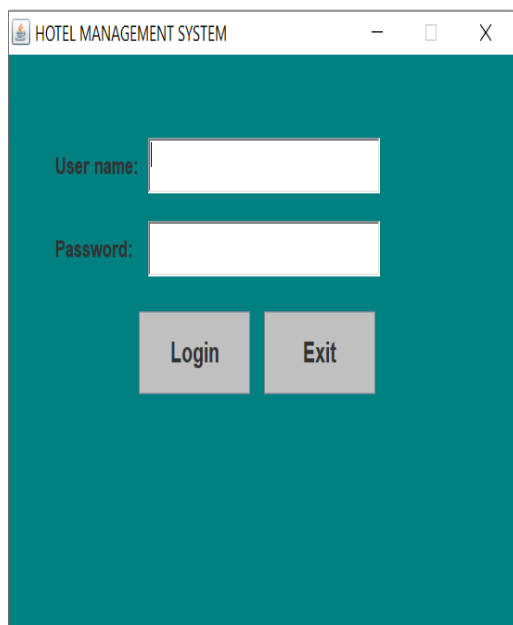
- Login
- Reservation
- Booking

In this project the “Admin” has the following features:

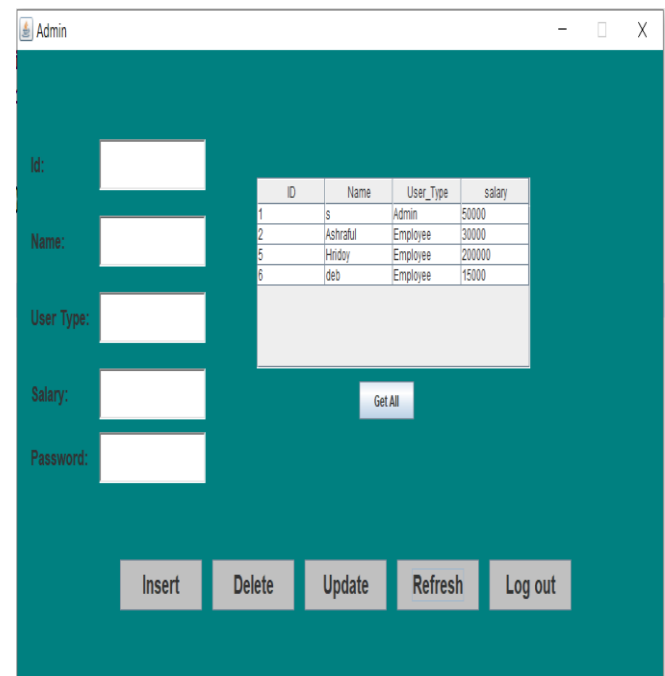
- Login
- Insert
- Delete
- Update

GUI Description:

1.Login Frame



2.Admin Frame

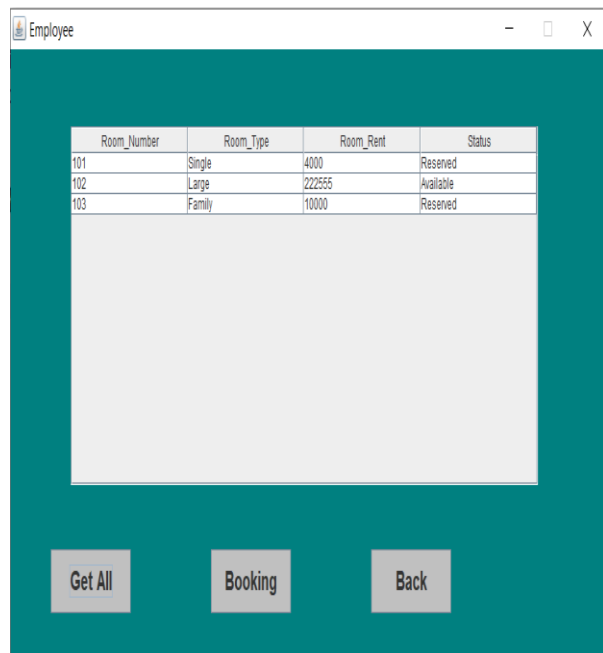


ID	Name	User_Type	salary
1	s	Admin	50000
2	Ashrafat	Employee	30000
5	Hindoy	Employee	200000
6	deb	Employee	15000



Hotel Management System

3.Reservation Frame

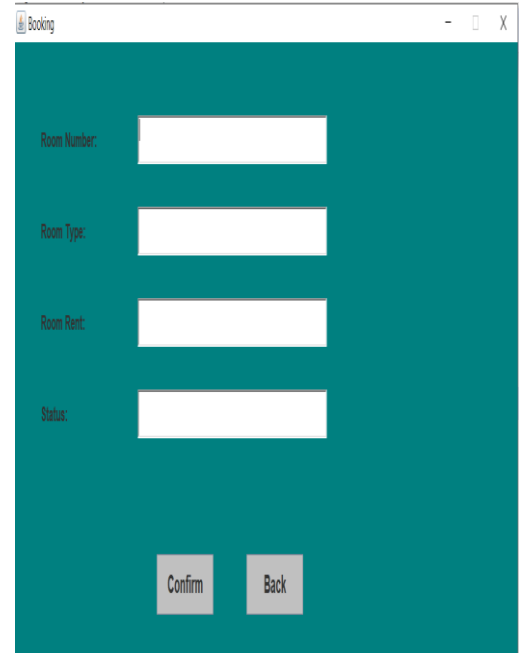


Employee

Room_Number	Room_Type	Room_Rent	Status
101	Single	4000	Reserved
102	Large	222555	Available
103	Family	10000	Reserved

Get All Booking Back

4.Booking Frame



Booking

Room Number:

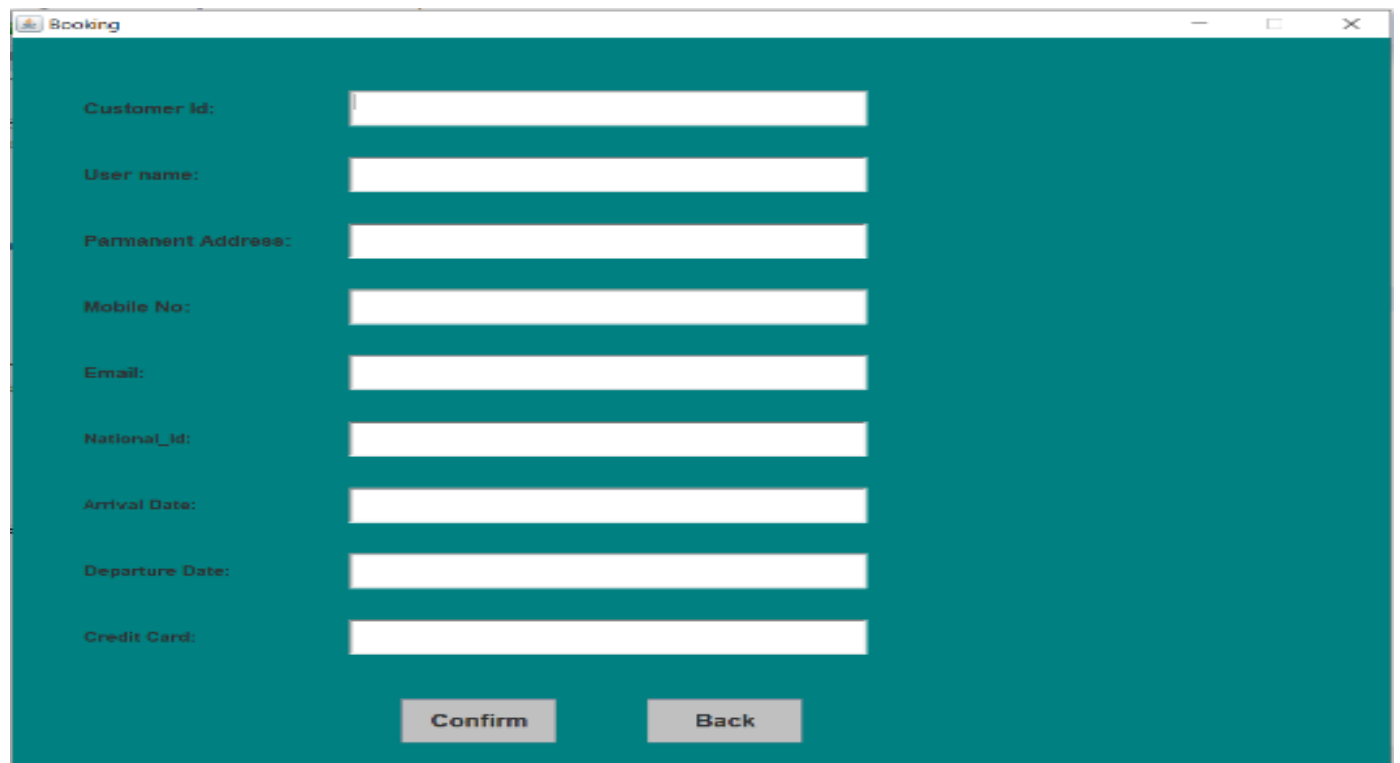
Room Type:

Room Rent:

Status:

Confirm Back

5.Customer Information



Booking

Customer Id:

User name:

Permanent Address:

Mobile No:

Email:

National Id:

Arrival Date:

Departure Date:

Credit Card:

Confirm Back



Hotel Management System

Database Table Description:

		ID	Name	Password	User_Type	salary
<input type="checkbox"/>	Edit Copy Delete	1	Suhas	123	Admin	50000
<input type="checkbox"/>	Edit Copy Delete	2	Ashraful	456	Employee	30000
<input type="checkbox"/>	Edit Copy Delete	3	Hridoy	789	Employee	20000
<input type="checkbox"/>	Edit Copy Delete	4	Nur	1234	Employee	15000

This is the user table.

		Customer_Id	Name	Permanent_Address	Mobile_No	Email	National_id	Arrival_Date	Departure_Date	Credit_Card
<input type="checkbox"/>	Edit Copy Delete	1	Nur	Dinajpur	017856585	nur@gmail.com	12457	2019-12-05	2019-12-08	23545
<input type="checkbox"/>	Edit Copy Delete	2	Limon	Dhaka	01754544	limon@gmail.com	45145	20-12-19	30-12-19	15454
<input type="checkbox"/>	Edit Copy Delete	3	Nur	Dhaka	01711448754	nur@gmail.com	85296	26/12/2019	27/12/2019	14785

This is the Customer table.

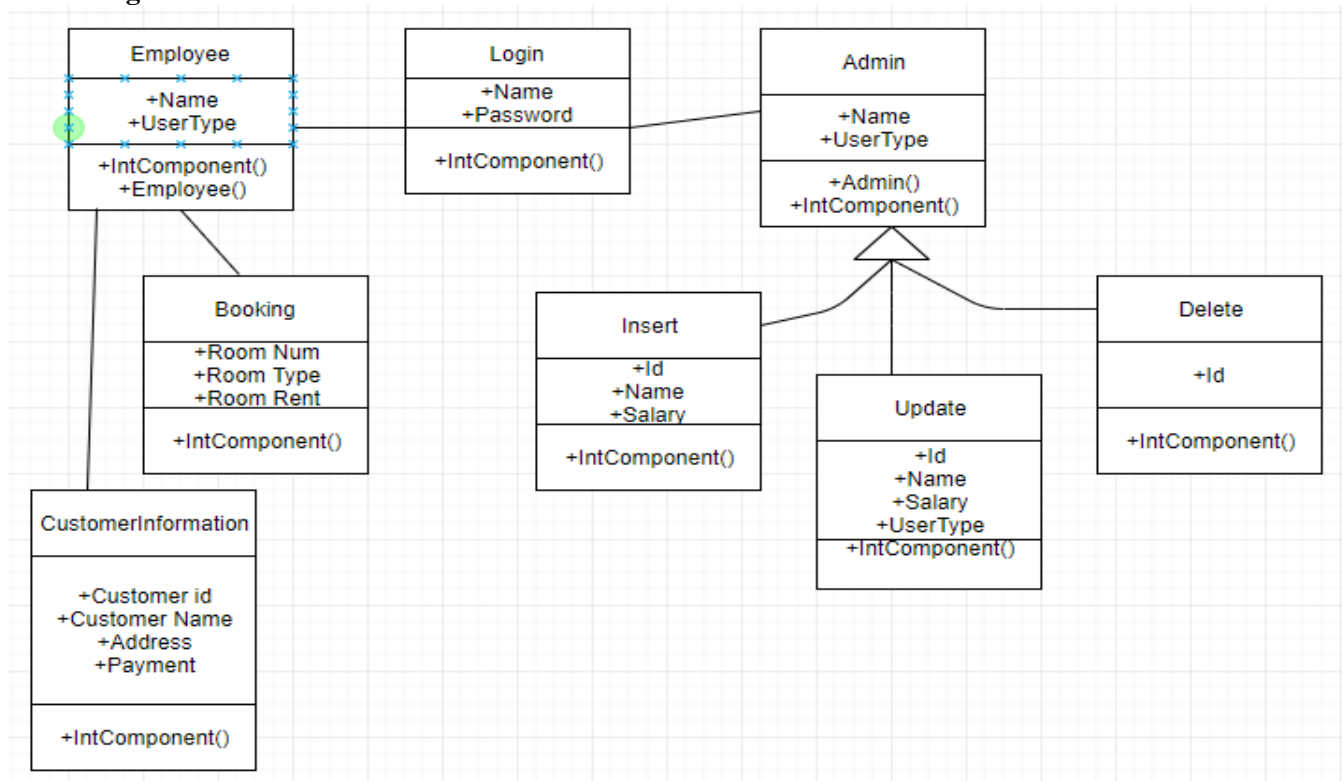
		Room_Number	Room_Type	Room_Rent	Status
<input type="checkbox"/>	Edit Copy Delete	101	Single	4000	Reserved
<input type="checkbox"/>	Edit Copy Delete	102	Double	8000	Reserved
<input type="checkbox"/>	Edit Copy Delete	103	Family	10000	Reserved
<input type="checkbox"/>	Edit Copy Delete	104	Family	10000	Available
<input type="checkbox"/>	Edit Copy Delete	105	Double	8000	Available
<input type="checkbox"/>	Edit Copy Delete	106	Single	4000	Available
<input type="checkbox"/>	Edit Copy Delete	107	Single	4000	Available

This is the Booking table.



Hotel Management System

Class Diagram:



Tools Used:

To develop this project we have used the following:

- XAMPP
- Eclipse IDE
- Paint(for color)

OOP and Java Concepts Used:

- Inheritance:
We have used inheritance to the class of objects where any subclass that is defined will inherit the definitions of one or more super classes.
- Polymorphism:
The system uses polymorphism by method overloading and method overriding.
- Encapsulation:
It is a protective shield that prevents the data from being accessed by the code outside this shield.
- Interface:



Hotel Management System

It is a collection of abstract methods. A class implements an interface, thereby inheriting the abstract methods of the interface.

- **AWT:**
The awt package provides classes for AWT api such as JText Field, JLabel, JButton, Color etc.
- **GUI:** In this system, GUI has been used to establish window and toolbars. It gives a reliable user friendly environment without writing any long commands.

Impact of this Project:

This hotel management system will provide security to information. It will reduce the risks of lost data of hotels. Management system will become more easy to keep records without using any sort books. It will allow the admin to have up-to-date information regarding all the aspects of their users.

Limitations and Possible Future Improvements:

In this system, user can easily book a room by helping Employee. In the future the system will be updated so that user can also pay for the rooms from anywhere without any sort of difficulty.

