Hotel Management System

ITMD-510

Final Project

Spring 2020

Submitted By:

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Functionality According To Users:

1. Administrator:
    a. Login to account
    b. View, add, update and delete rooms in the hotel
    c. View, add, update and delete customers in the hotel
    d. View, add, update and delete employees in the hotel
    e. Exit from application

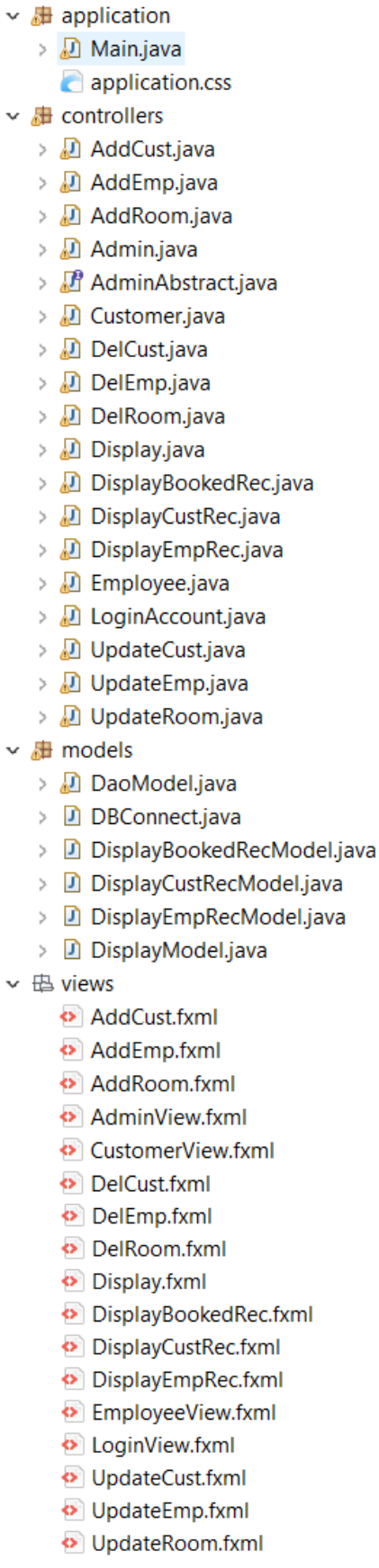
2. Employee:
    a. Login to account
    b. View rooms in the hotel
    c. View customers in the hotel
    d. Exit from application

3. Customer:
    a. Login to account
    b. View rooms in the hotel
    c. Search for room in the hotel
    d. Book the searched room in the hotel
    e. Exit from application

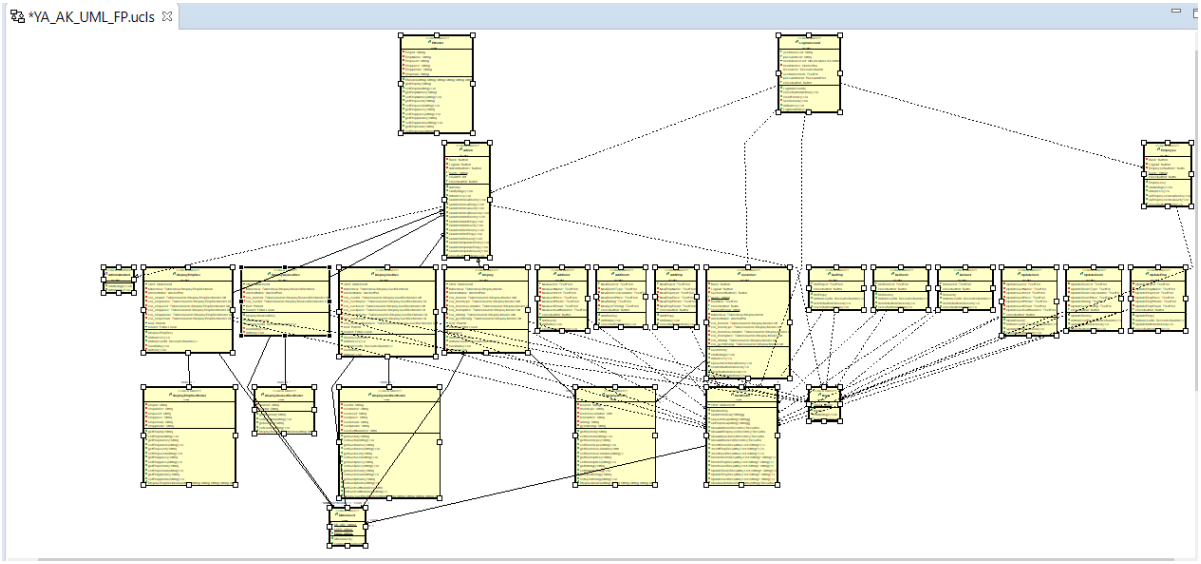
Brief Description of Classes:

a. Project is divided into a four packages: application, controllers, models and views.
b. The main file to be executed is the Main.java file found in the applications package.
c. AdminAbstract is the interface that is extended by the Admin class.
d. Admin has rights for updating, inserting, viewing and deleting rooms, employees and customers
e. Employee has rights to view rooms and customers
f. Customer has rights to view rooms and search for rooms.

Project Breakdown:



UML Diagram:

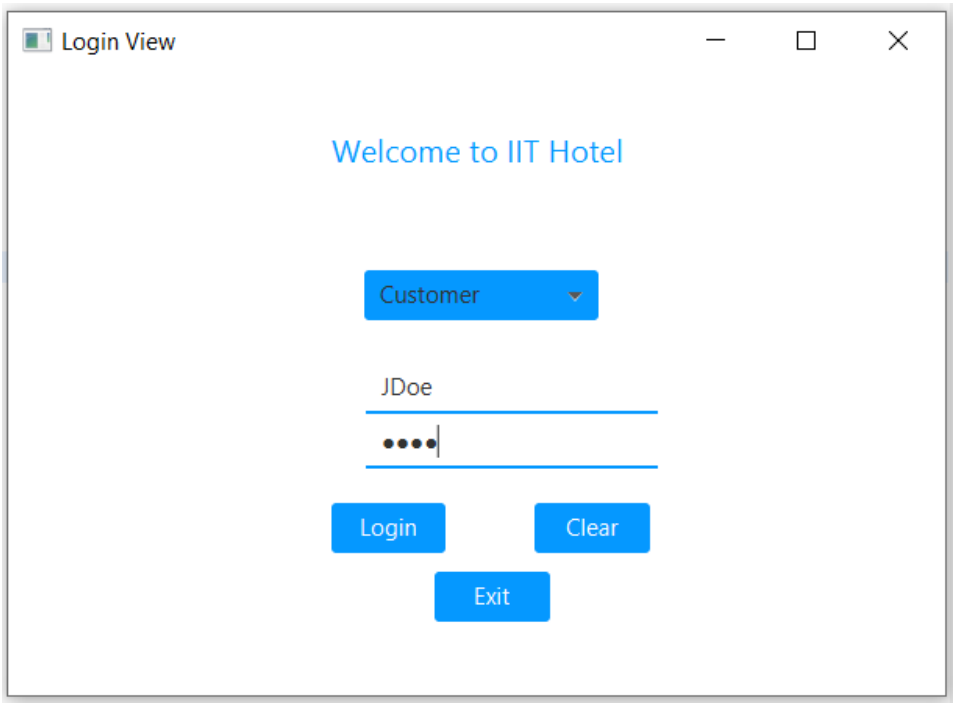


Login Details For Users:

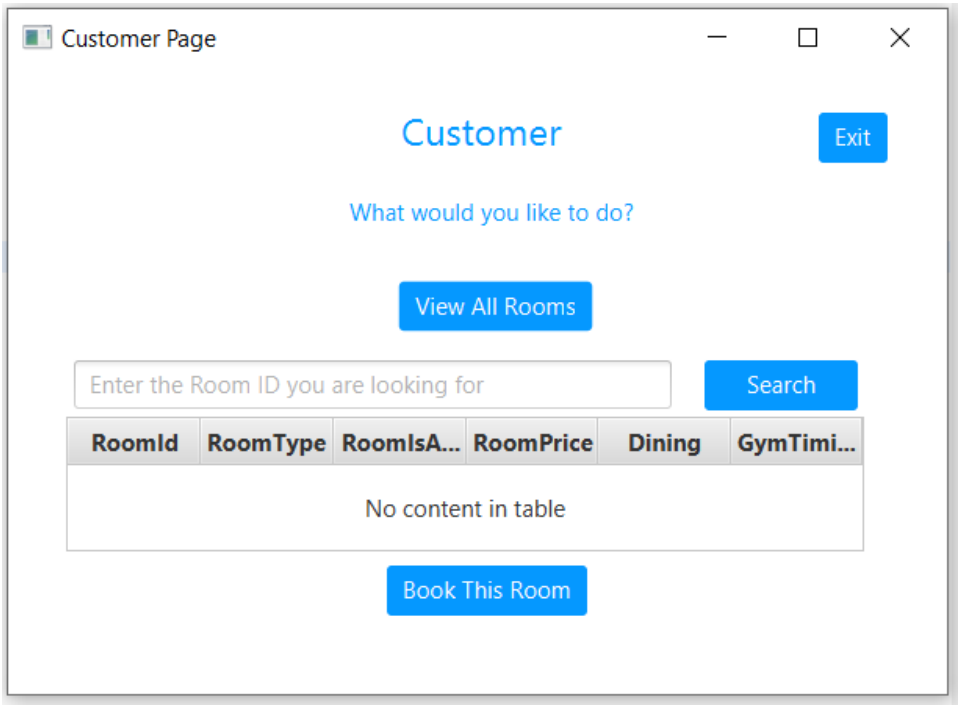
	Username	Password
Administrator	Ahmed	Abcd
Employee	CDrac	CDrac
Customer	JDoe	JDoe

Working Screenshots:

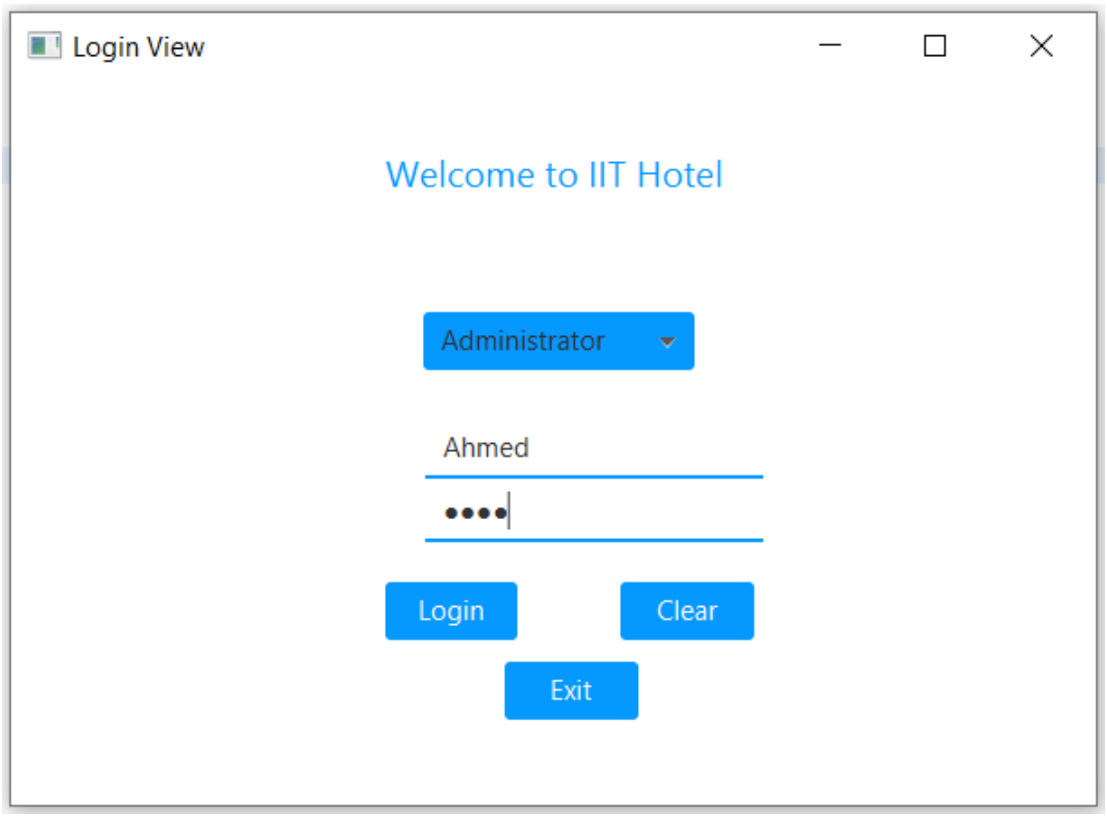
Login Page for Customer



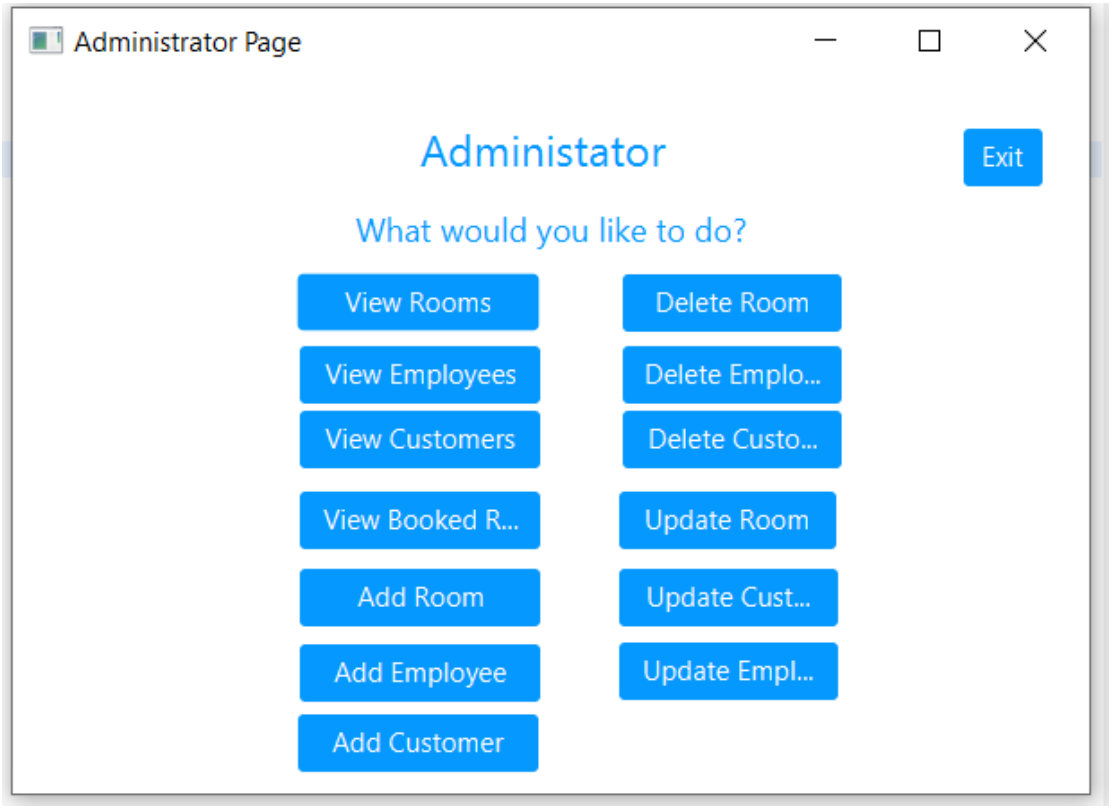
Successful Login for Customer:



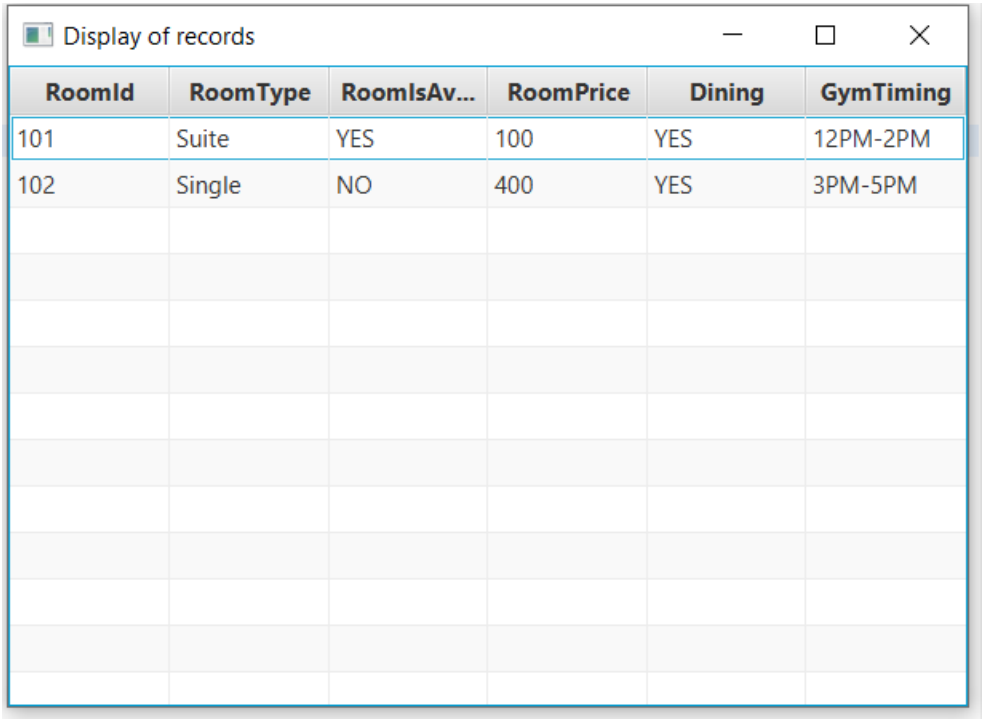
Login Page for Admin:



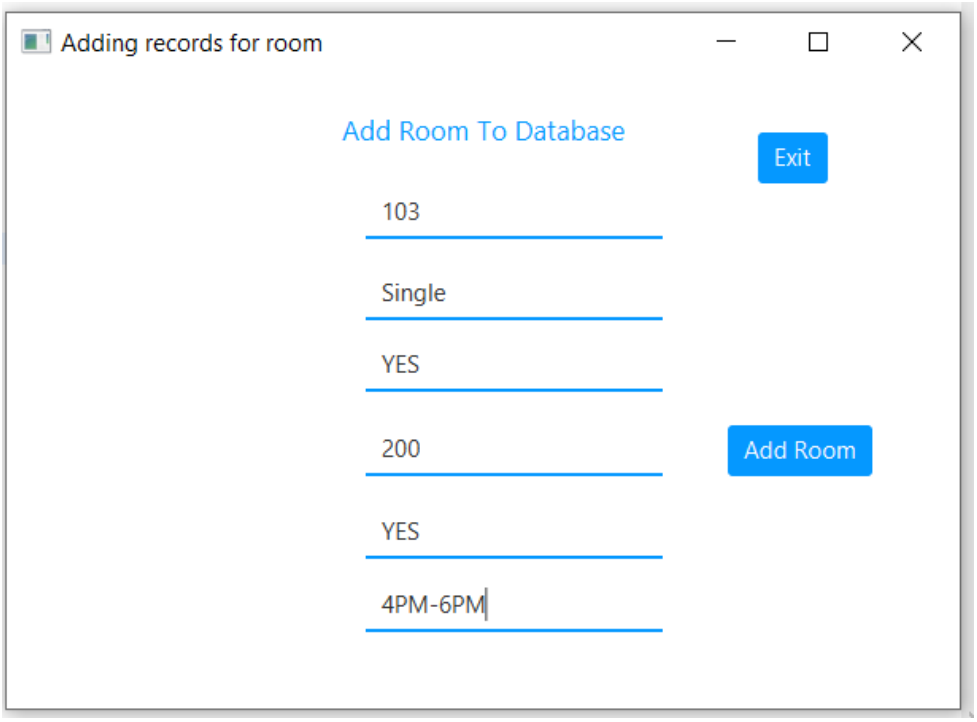
Successful login for Admin:



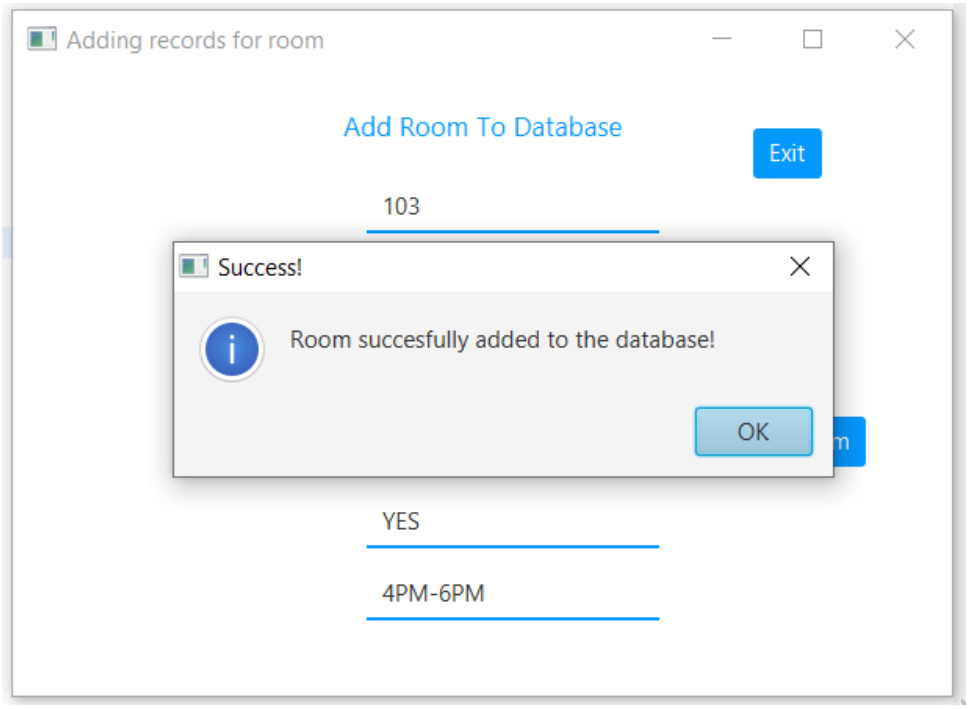
Rooms Displayed when View Rooms is clicked:



Adding Room:



Success dialog box after adding:



Records Screenshot from Database after adding 10 records:

Server: localhost:3307 » Database: 510labs » Table: aak_prooms

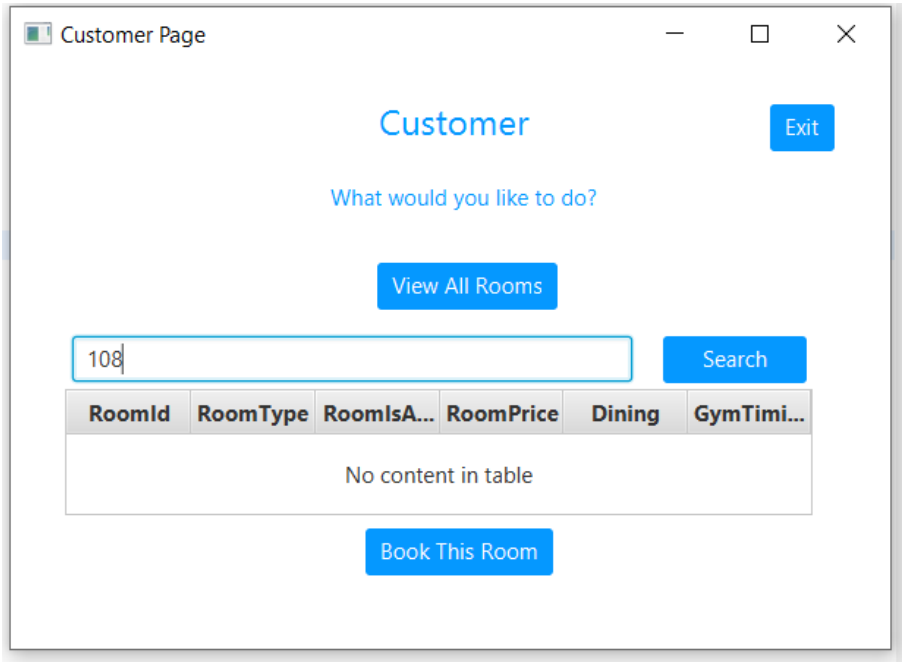
Browse | Structure | SQL | Search | Insert | Export | Import | Privilege

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

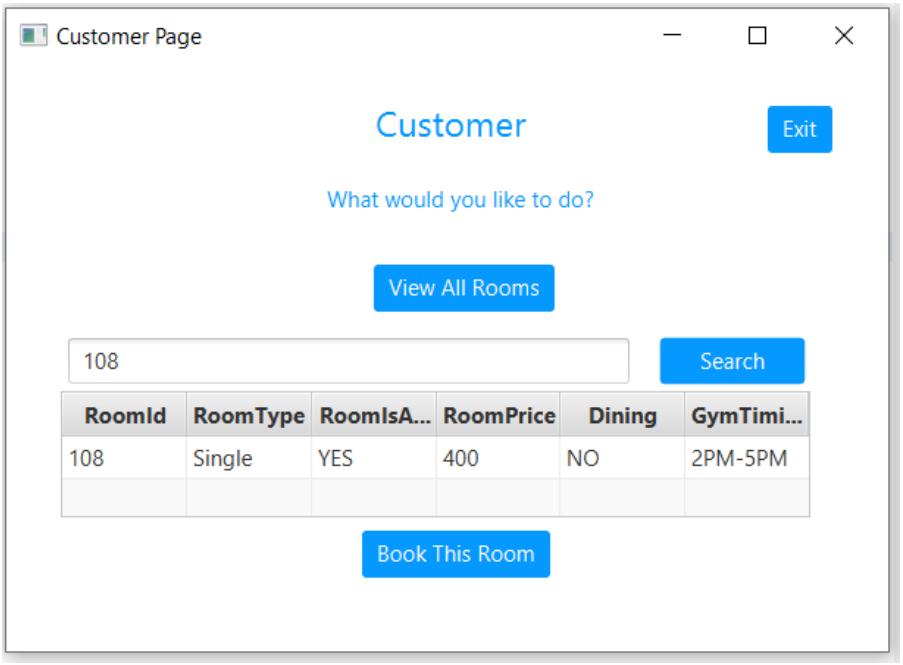
+ Options

	RoomId	RoomType	RoomIsAvailable	RoomPrice	Dining	GymTiming
Edit Copy Delete	101	Suite	YES	100	YES	12PM-2PM
Edit Copy Delete	102	Single	NO	400	YES	3PM-5PM
Edit Copy Delete	103	Single	YES	200	YES	4PM-6PM
Edit Copy Delete	104	Suite	NO	100	NO	3PM-5PM
Edit Copy Delete	105	Double	YES	600	YES	4PM-7PM
Edit Copy Delete	106	Single	YES	200	NO	2PM-3PM
Edit Copy Delete	107	Studio	NO	1200	YES	1PM-7PM
Edit Copy Delete	108	Single	YES	400	NO	2PM-5PM
Edit Copy Delete	109	Studio	YES	1300	YES	12PM-8PM
Edit Copy Delete	110	Single	NO	300	NO	1PM-2PM
Edit Copy Delete	111	Double	YES	600	YES	2PM-9PM
Edit Copy Delete	112	Studio	YES	1000	YES	12PM-8PM

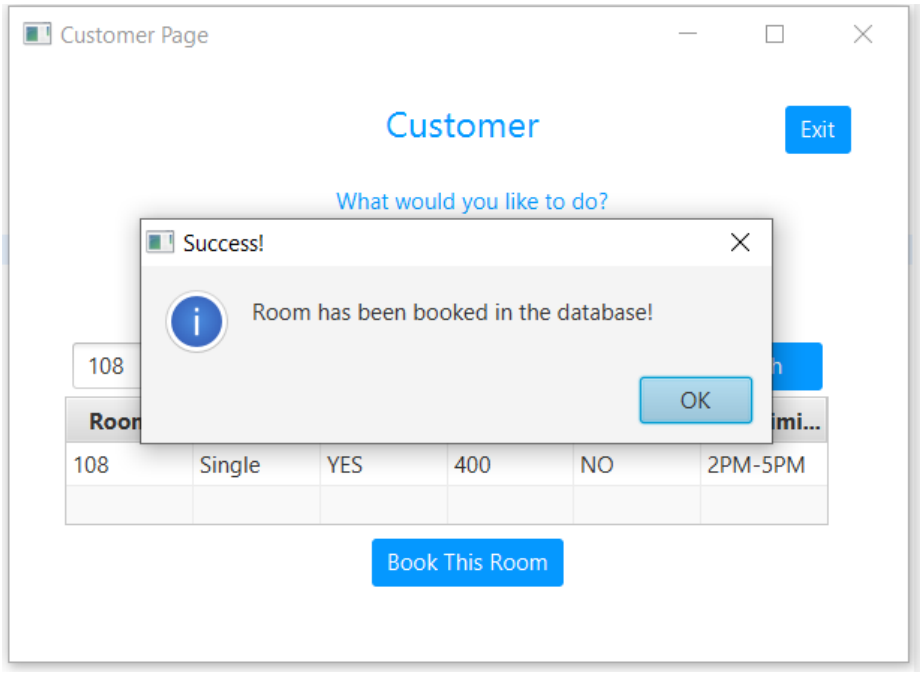
Customer view while searching for room:



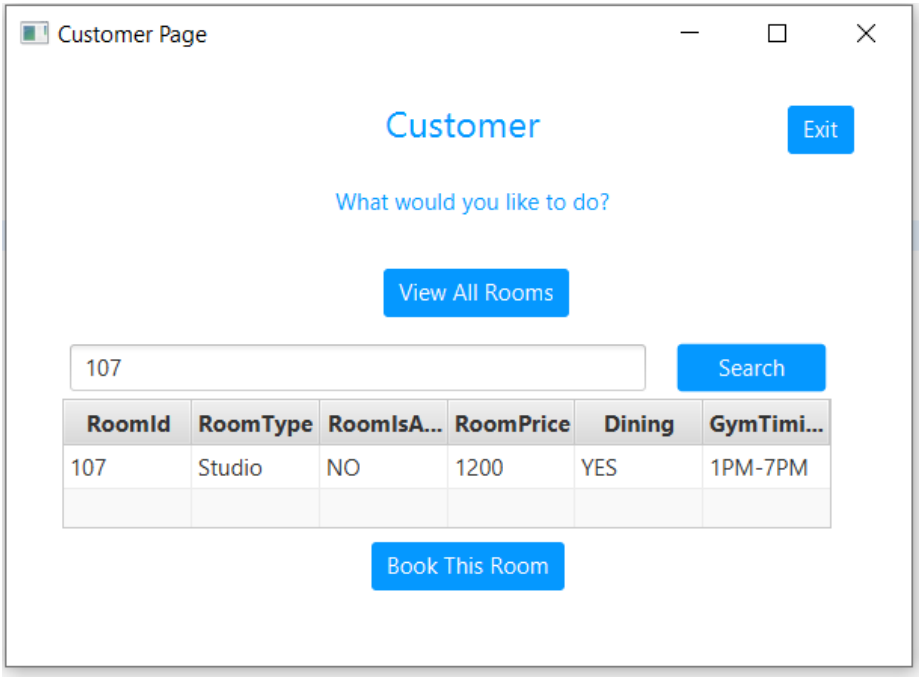
Customer view after clicking on the search button:



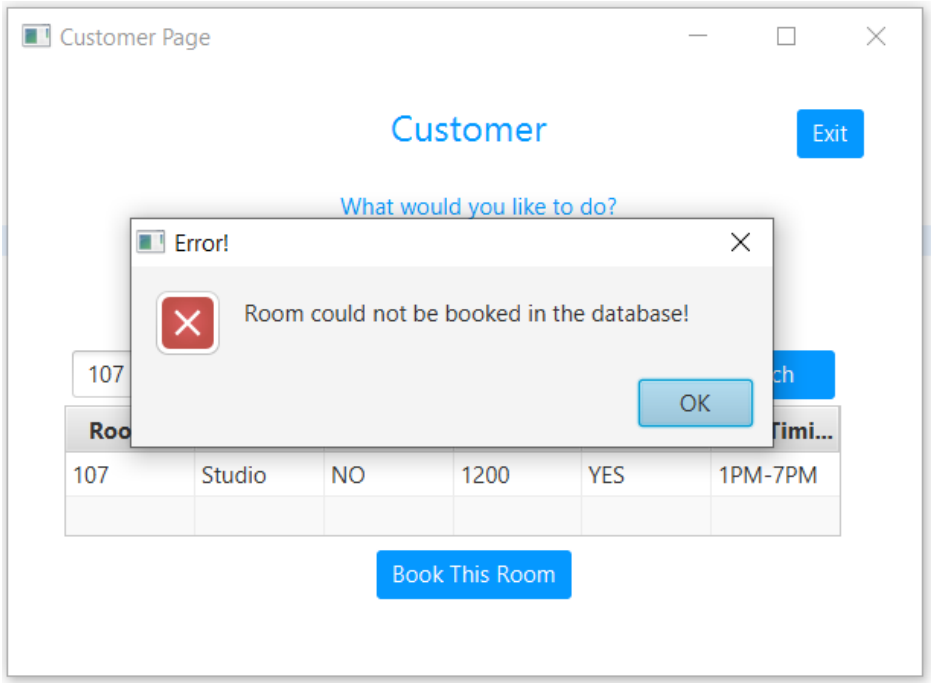
Successful booking for Customer:



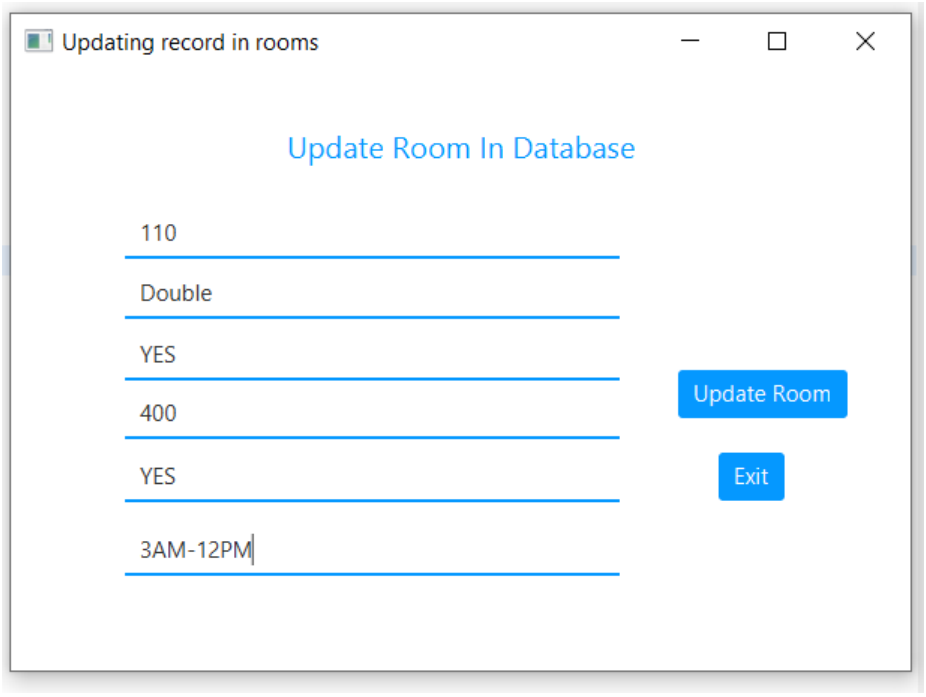
Unavailable room booking attempt for customer:



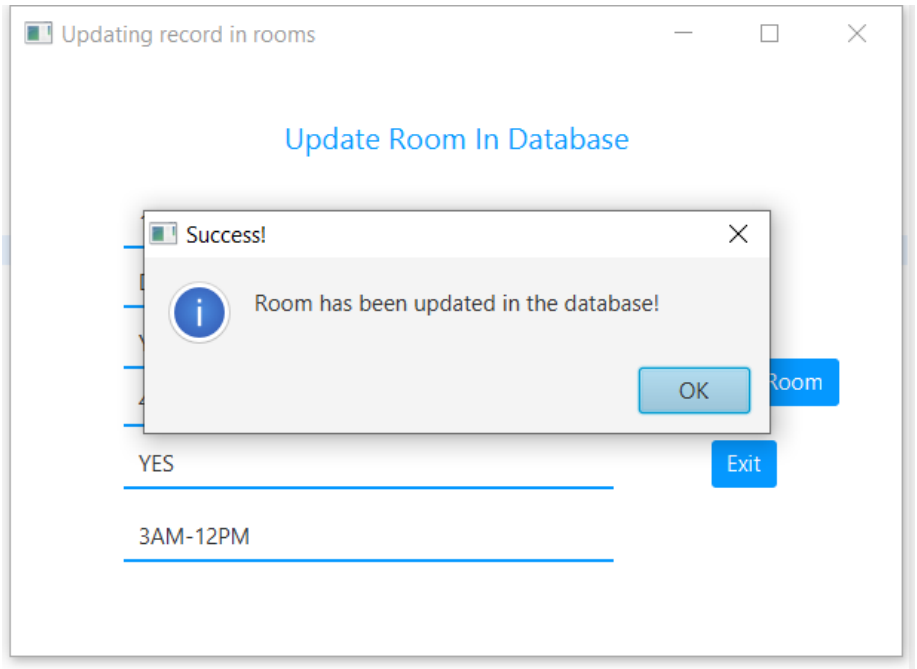
Unsuccessful room booking attempt for customer:



Update room:



Successful Room Update:

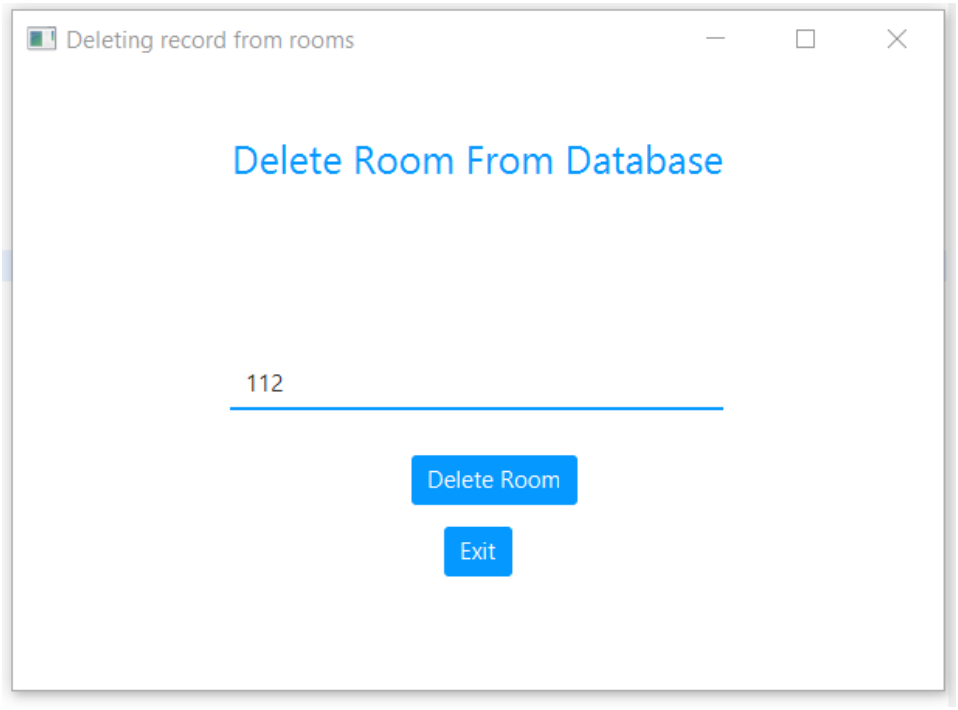


Room Records after updating:

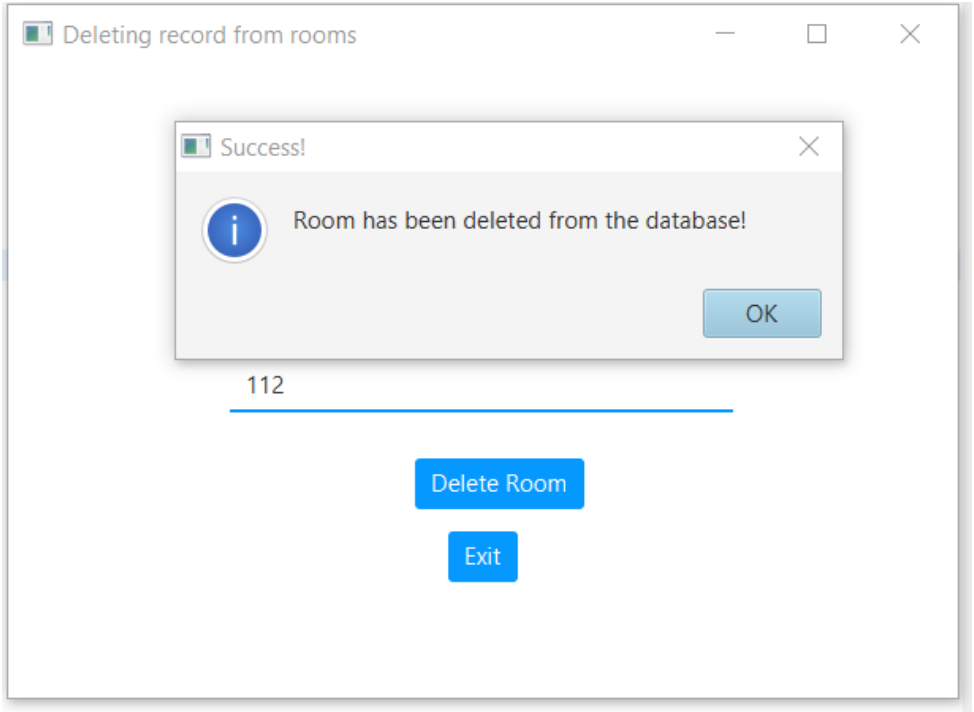
Display of records

RoomId	RoomType	RoomIsAv...	RoomPrice	Dining	GymTiming
101	Suite	YES	100	YES	12PM-2PM
102	Single	NO	400	YES	3PM-5PM
103	Single	YES	200	YES	4PM-6PM
104	Suite	NO	100	NO	3PM-5PM
105	Double	YES	600	YES	4PM-7PM
106	Single	YES	200	NO	2PM-3PM
107	Studio	NO	1200	YES	1PM-7PM
108	Single	YES	400	NO	2PM-5PM
109	Studio	YES	1300	YES	12PM-8PM
110	Double	YES	400	YES	3AM-12PM
111	Double	YES	600	YES	2PM-9PM
112	Studio	YES	1000	YES	12PM-8PM

Delete Room:



Successful Delete Room:



Room records after deleting sorted by room type ascending order:

Display of records

RoomId	RoomType	RoomIsAv...	RoomPrice	Dining	GymTiming
105	Double	YES	600	YES	4PM-7PM
110	Double	YES	400	YES	3AM-12PM
111	Double	YES	600	YES	2PM-9PM
103	Single	YES	200	YES	4PM-6PM
102	Single	NO	400	YES	3PM-5PM
108	Single	YES	400	NO	2PM-5PM
106	Single	YES	200	NO	2PM-3PM
107	Studio	NO	1200	YES	1PM-7PM
109	Studio	YES	1300	YES	12PM-8PM
101	Suite	YES	100	YES	12PM-2PM
104	Suite	NO	100	NO	3PM-5PM

Admin Table from database:

+ Options

	AdminId	AdminUser	AdminPass
Edit Copy Delete	9001	Ahmed	abcd
Edit Copy Delete	9002	Yazeed	efgh

Employees Table from database:

+ Options

	EmpId	EmpName	EmpUser	EmpPass	EmpPhone	EmpEmail
Edit Copy Delete	8001	Count Dracula	CDrac	CDrac	1234567890	cdrac@gmail.com
Edit Copy Delete	8002	Van Helsing	VHel	VHel	0987654321	vhel@gmail.com

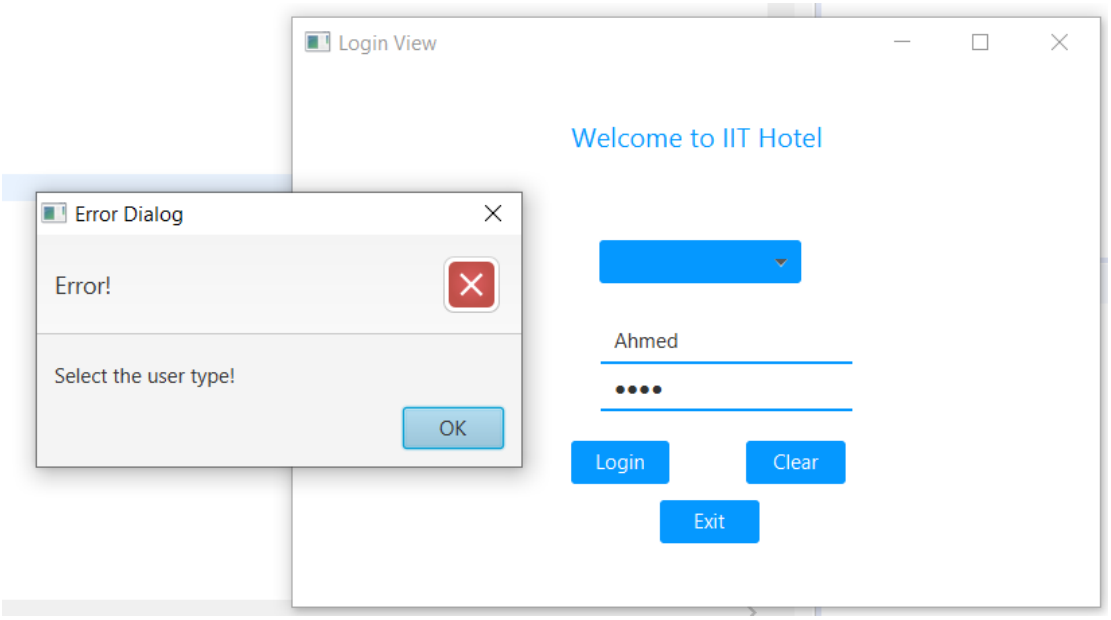
Customers Table from database:

+ Options

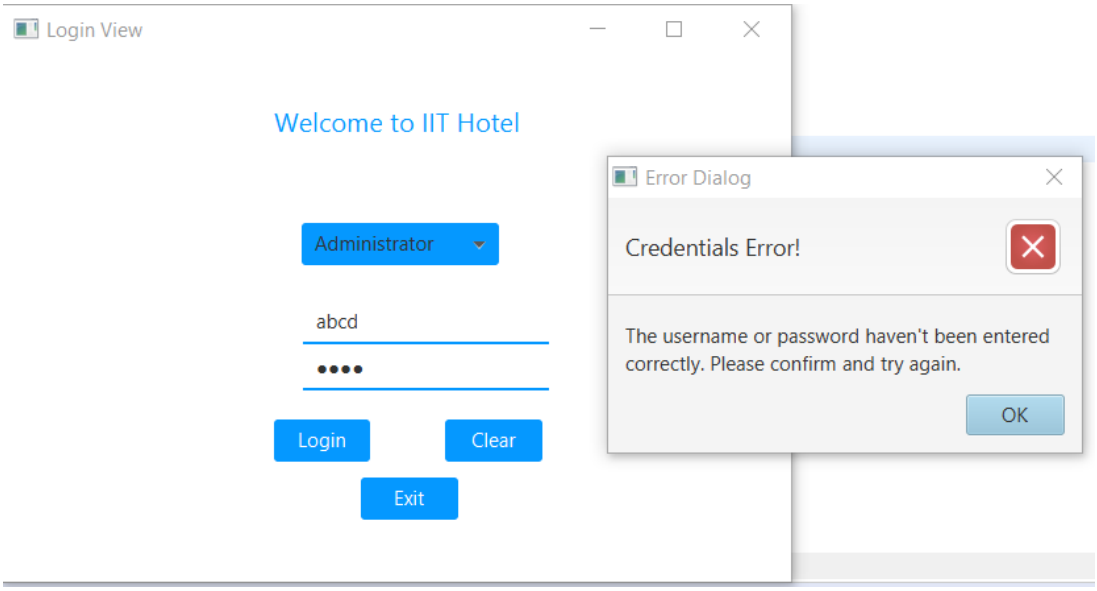
	CustId	CustName	CustUser	CustPass	CustPhone	CustEmail	CustCurrBalance
Edit Copy Delete	101	John Doe	JDoe	JDoe	1234567890	jdoe@gmail.com	100
Edit Copy Delete	102	Jane Doe	JaDoe	JaDoe	0123456789	jadoe@gmail.com	1000

Error Handling Screenshots:

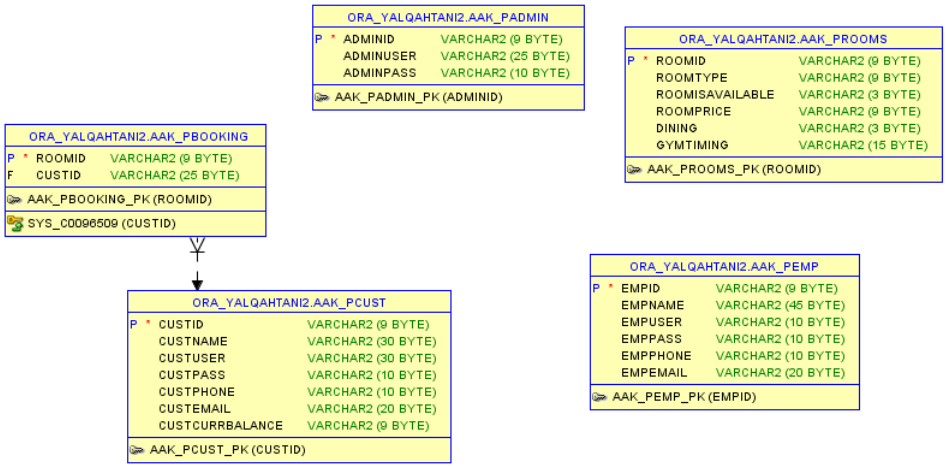
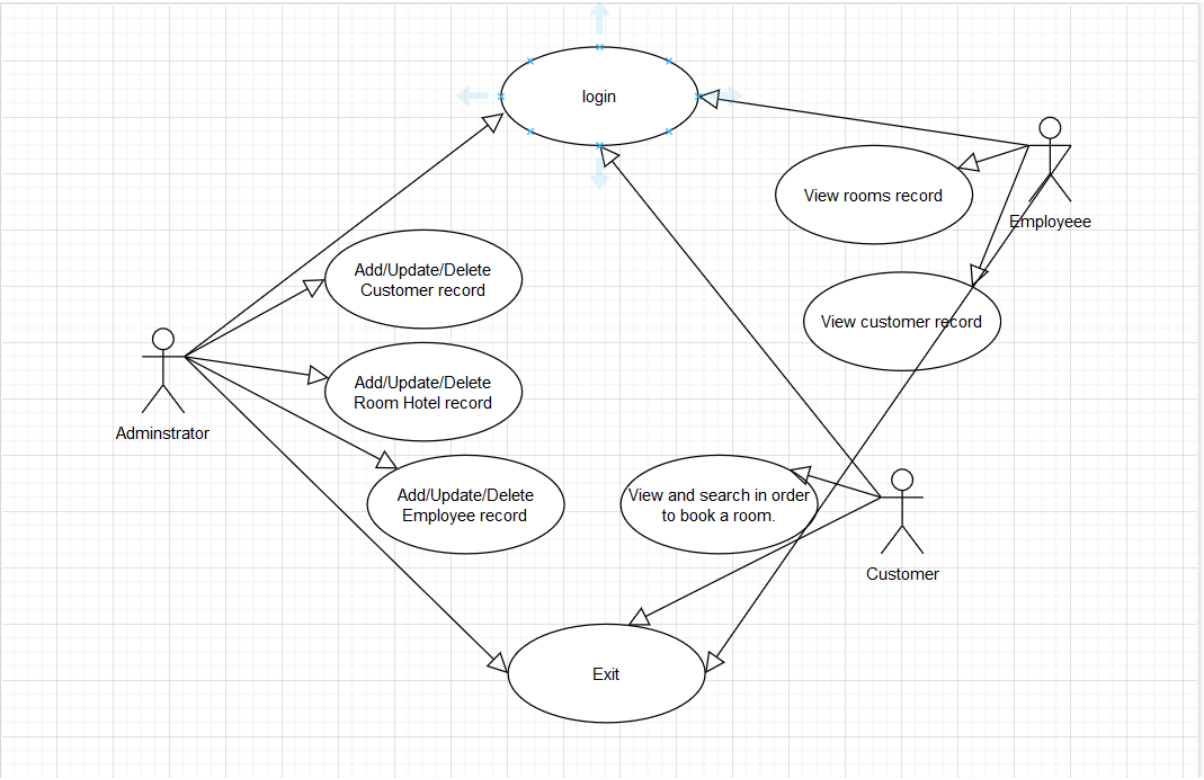
Unselected user type:



Invalid username/password:



Extra Credit- Entity Relationship Diagram



Extra Credit- Use Case