



NORTH SOUTH UNIVERSITY

Department of Electrical and Computer Engineering
CSE215L

PROJECT REPORT

Project Title: Hotel Management System

GitHub Repo Link:

<https://github.com/NafisFuhad/Hotel-Skyview.git>

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INTRODUCTION:

The "Hotel Management System" project is a JavaFX application designed to facilitate the management of a hotel's room and staff information. The application provides an intuitive graphical user interface for the hotel manager to log in, access room details, view staff information, and perform essential management tasks.

DESCRIPTION:

The "Hotel Management System" project of ours is mainly for the official staff of the hotel to seek information of the room and staff. Using GUI, we have developed this project. The key features of the project are discussed below:

Login System: Upon launching, user is greeted with a visually appealing login screen where secure login functionality ensures that only authorized users.

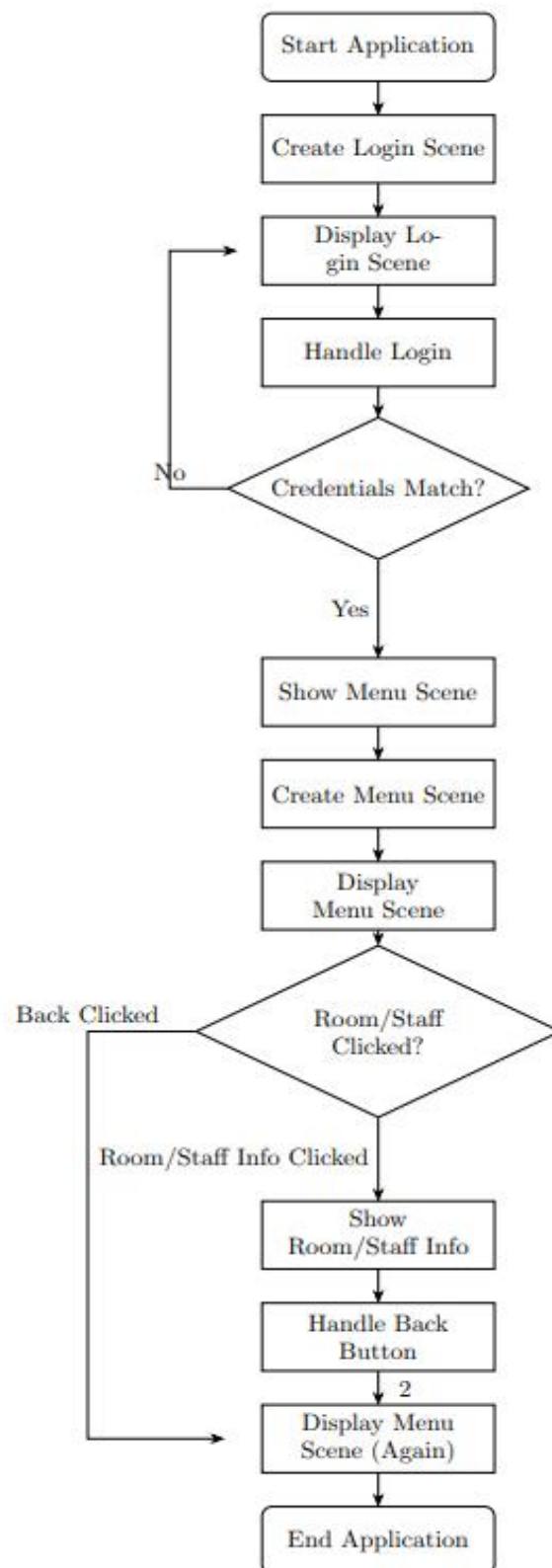
Menu Interface: After logging in, user is presented with a menu with options having "Room Info" and "Staff Info".

Room Info: Here the user is presented with all the room information such as room number, room type, price and status. Also clicking the booked room button, user can see all the booked rooms list separately.

Staff Info: The user gets access information about hotel staff, including names, designations, and salaries here.

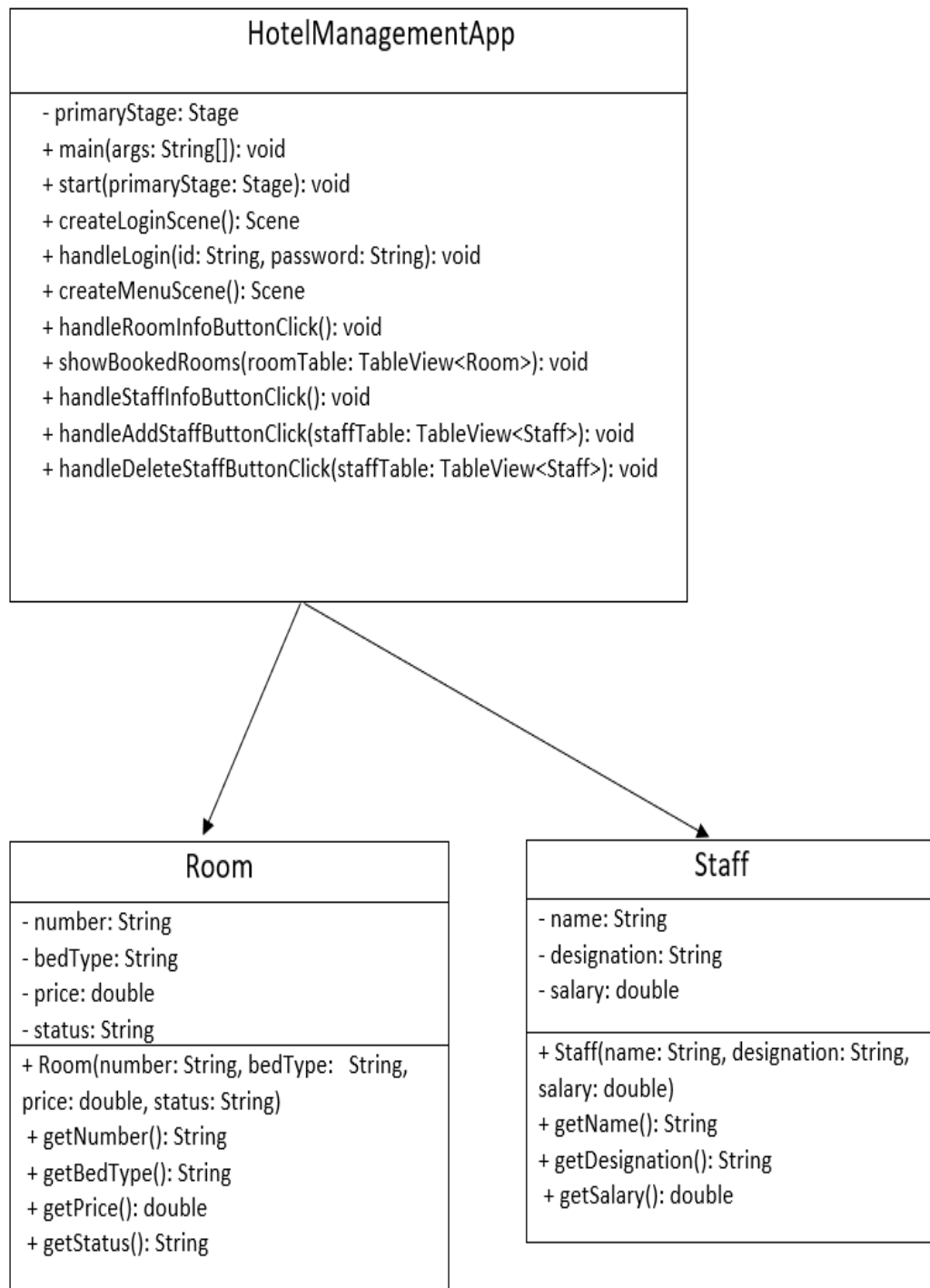
Add and Delete Staff: The system includes functionality to add new staff members, specifying their name, designation, and salary and can also delete staff members by selecting them from a list.

FLOW-CHART: The flow-chart of our project is provided below:



UML DIAGRAM:

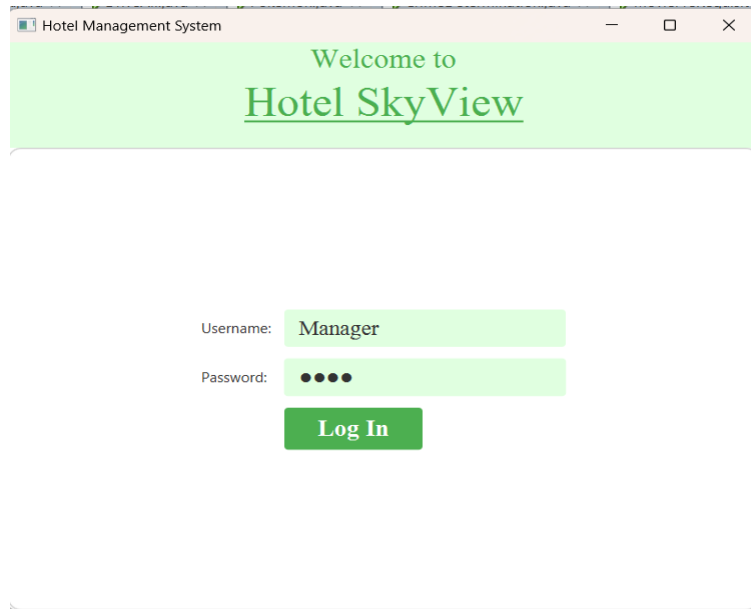
In the project, we have used three classes which are HotelManagementApp, Room and Staff. The UML diagram is provided below:



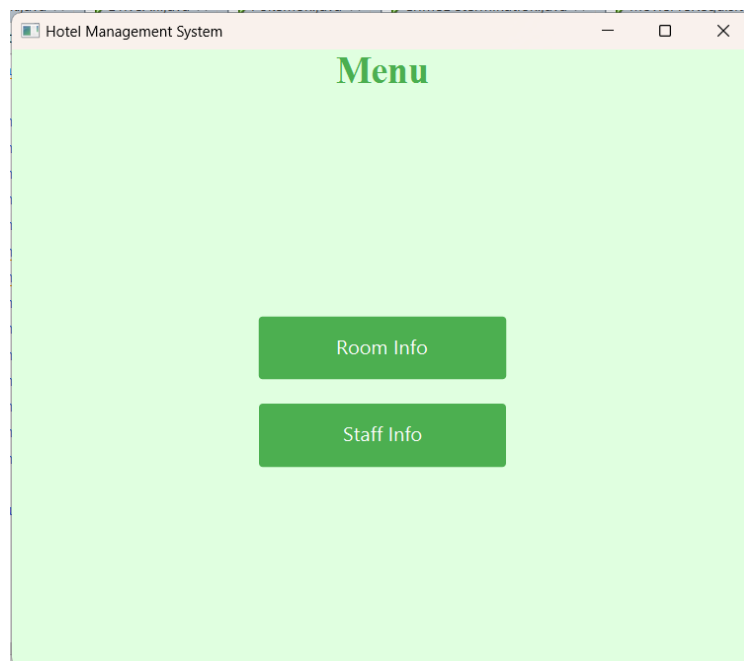
RESULT (OUTCOME):

Upon launching the project, the following result will be shown:

First the login page will arrive where the user provides the username and password.



After login, a menu will arrive with the options Room and Staff Info.



If Room Info is chosen then the page of the information of the rooms come.

Room Information

Room Number	Bed Type	Price per Day	Status	
101	Double Bed	10000.0	Booked	
102	Double Bed	10000.0	Booked	
103	Double Bed	10000.0	Available	
201	Twin Bed	8000.0	Available	
202	Twin Bed	8000.0	Booked	
203	Twin Bed	8000.0	Available	
301	Suite	20000.0	Available	
302	Suite	20000.0	Booked	
303	Suite	20000.0	Booked	


Show Booked Rooms

Back to Menu

In this page if the “Show Booked Room” button is clicked, a separate list of booked rooms is shown.

[illegible]

Moving back to the menu, if the Staff Info option is chosen then a page with staff information arrives.


Staff Information

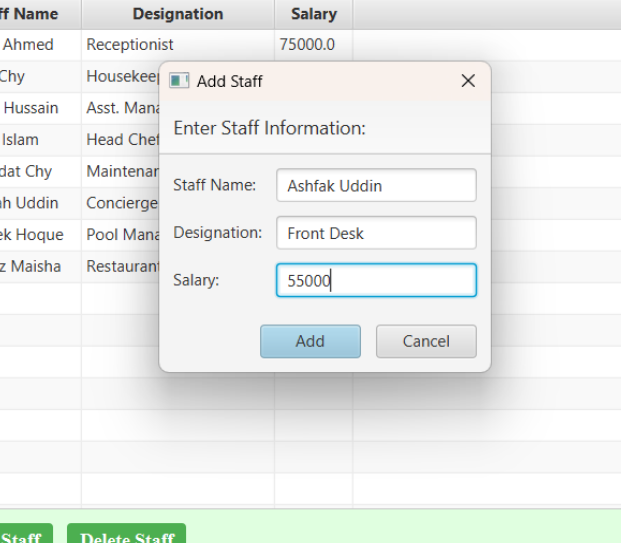
Staff Name	Designation	Salary	
Tawsif Ahmed	Receptionist	75000.0	
Wasif Chy	Housekeeping	40000.0	
Rehan Hussain	Asst. Manager	60000.0	
Anisul Islam	Head Chef	85000.0	
Shahadat Chy	Maintenance Supervisor	50000.0	
Mezbah Uddin	Concierge	45000.0	
Zuraeek Hoque	Pool Manager	70000.0	
Fairooz Maisha	Restaurant Manager	80000.0	

Add Staff

Delete Staff

Back to Menu

When “Add Staff” option pressed then a box appears where the info of the new staff has to provide to add in the list.



The screenshot displays a web application titled "Staff Information". It features a table with three columns: "Staff Name", "Designation", and "Salary". The table contains the following data:

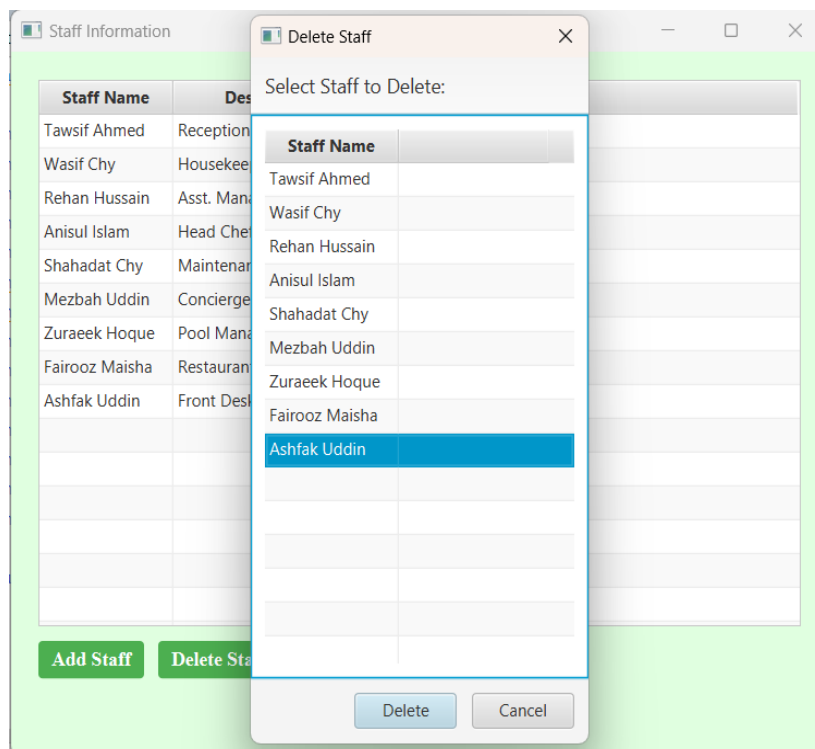
Staff Name	Designation	Salary
Tawsif Ahmed	Receptionist	75000.0
Wasif Chy	Housekeeper	
Rehan Hussain	Asst. Manager	
Anisul Islam	Head Chef	
Shahadat Chy	Maintenance	
Mezbah Uddin	Concierge	
Zuraeek Hoque	Pool Manager	
Fairooz Maisha	Restaurant	

An "Add Staff" dialog box is open in the foreground, titled "Enter Staff Information:". It contains three input fields:

- Staff Name: Ashfak Uddin
- Designation: Front Desk
- Salary: 55000

At the bottom of the dialog are two buttons: "Add" and "Cancel". Below the table, there are three green buttons: "Add Staff", "Delete Staff", and "Back to Menu".

Then when the “Delete Staff” is clicked, a list of all the staff appears and the user has to choose one whom to delete.



FUTURE WORK:

Our “Hotel Management System” project is a very basic model where only a staff can use this to see room and staff information. There are a lot of improvements which are planned by us to be included in this project. Such as:

A customer login interface to be made where they can choose their rooms and date of stay by their own wish.

In the manager interface, we want to add options for check-in and check-out. Also, we want to add features like calculating the revenue and expenditures to show us the monthly profit/loss margin.

We also wish to make the interface livelier and appealing by adding pictures of the hotel and rooms.

These are the works we wish to add in the future to this project.