



# FINAL REPORT

S U B J E C T : JAVA TECHNOLOGY

**TOPIC: HOTEL MANAGEMENT SYSTEM**

L E C T U R E R : NGUYEN MINH TUAN

# ***Group Assignment***



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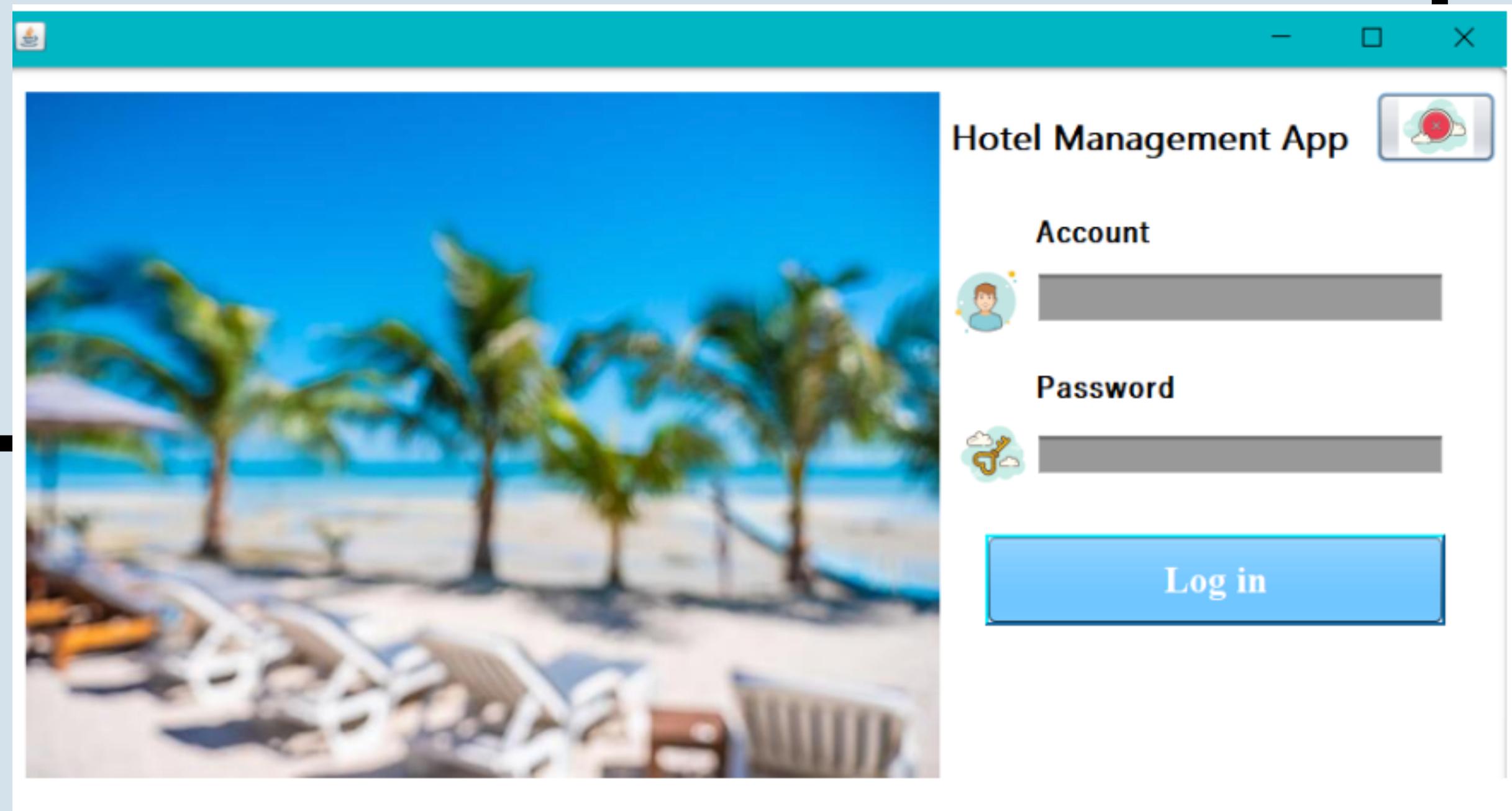


**Pham Tuan Dung**



**Phan Hoang Trong Tin**

# HOTEL MANAGEMENT SYSTEM



# I. OVERVIEW



# Status Survey

Particularly in the hotel and tourism sectors, Vietnam is suffering from a lack of highly skilled, well-trained people resources. In the near future, this requirement will only get more pressing. In contrast, our nation's hotel management human resources have not been well defined in recent years, creating a scenario of both surplus and scarcity.

Many students majoring in hotel management "ship" each year from universities, colleges, and professional schools across the nation. However, the majority of them merely "temporarily remain" in modest places like mini hotels and motels after graduating from school, failing to land a job that corresponds to their speciality, if any.

# ***Rating***

## **Advantages**

- Investment in computer hardware and management software is not necessary, and investment in investment money is less expensive.
- All employees' work can be easily supervised manually without the aid of a computer.

## **Disadvantages**

- It is laborious, the storage location is inconvenient, and numerous staff are needed to maintain the complicated and varied information about clients and rooms.
- The room will take a long time and have to directly hunt for that information in the recorded papers and books when it is important to find information on clients.



# OBJECTIVES AND SCOPE OF THE APP



# **Objective**

The hotel management system is built with the object in mind:

- System Administrator
- Management Staff



# S c o p e s

01

## Statement of the Point

With the number of customers increasing every year, X Hotel has a need to improve the automatic storage, search and printing of reports to meet a large volume of information processing and accuracy. information. The intervention of the hotel management system will bring higher operational efficiency in the management of hotel X.

02

## Description

The new system will collect all the information about employees, services, rooms, customers, invoices Make lists, reports... to help managers understand the necessary information.

03

## Targets

Allows staff to manage and track information for each customer and room accurately. Look up, statistics results, ...

# S c o p e s

04

## Benefits

- Create convenience, speed and comfort for management. staff.
- Automation for hotel management creates professionalism for information management.
- Save time and money.

05

## Steps

- System development planning.
- System analysis.
- Design.
- Setting.
- Test.
- Document compilation.
- User training

## **II. THEORY BASIS**



### ***Programming Environment***

Java Development Kit (JDK - Toolkit for application developers in the Java programming language).

### ***Programming Language***

Java is an application development and deployment environment and an all-purpose programming language.



# **III. ANALYSIS AND DESIGN SYSTEM**

# *Determination of Requirement*

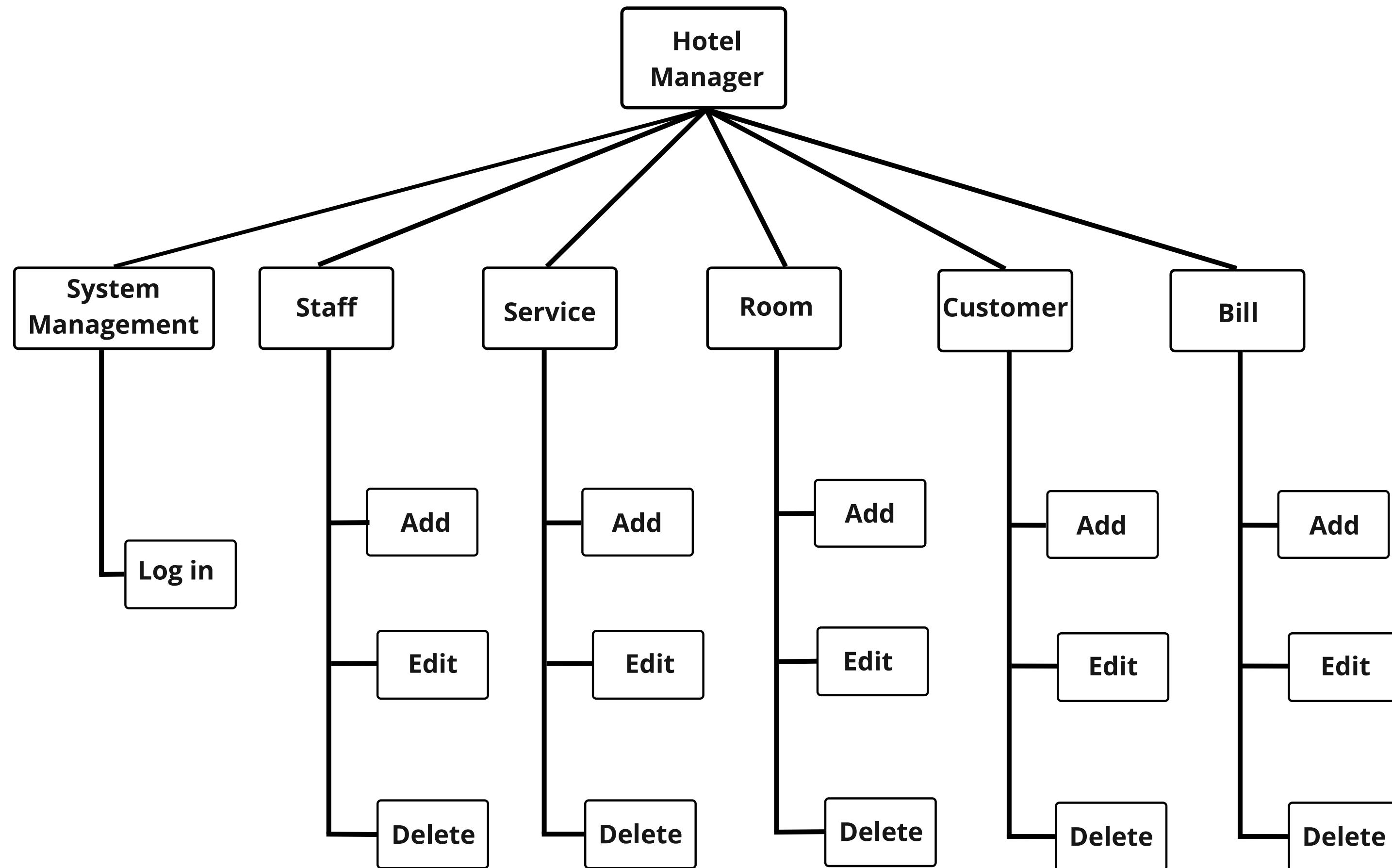
## 01 **Require Function**

- The system must update and store all detailed information about rooms, employees, invoices, customers, etc.
- Update by category: employee, service, room, customer, invoice
- Provide, look up hotels

## 02 **System Requirements**

- The system uses a database management system large enough to accommodate an increasing number of hotels.
- The server has the ability to calculate quickly, accurately, long-term storage, and security.
- Information is synchronized, decentralized and strictly managed.
- Good security for system administrators.

# ***Modeling:*** Functional Decomposition Diagram



# **Functional Components of the System**

**Menu:** Contains the main functions of the program.

**System login function:** Log in to your account to process the program.

**Employee information function:** Add, edit, delete, and display employee information.

**Service information display function:** Add, edit, delete and display service information.

**Room information display function:** Show add, edit, delete room information.

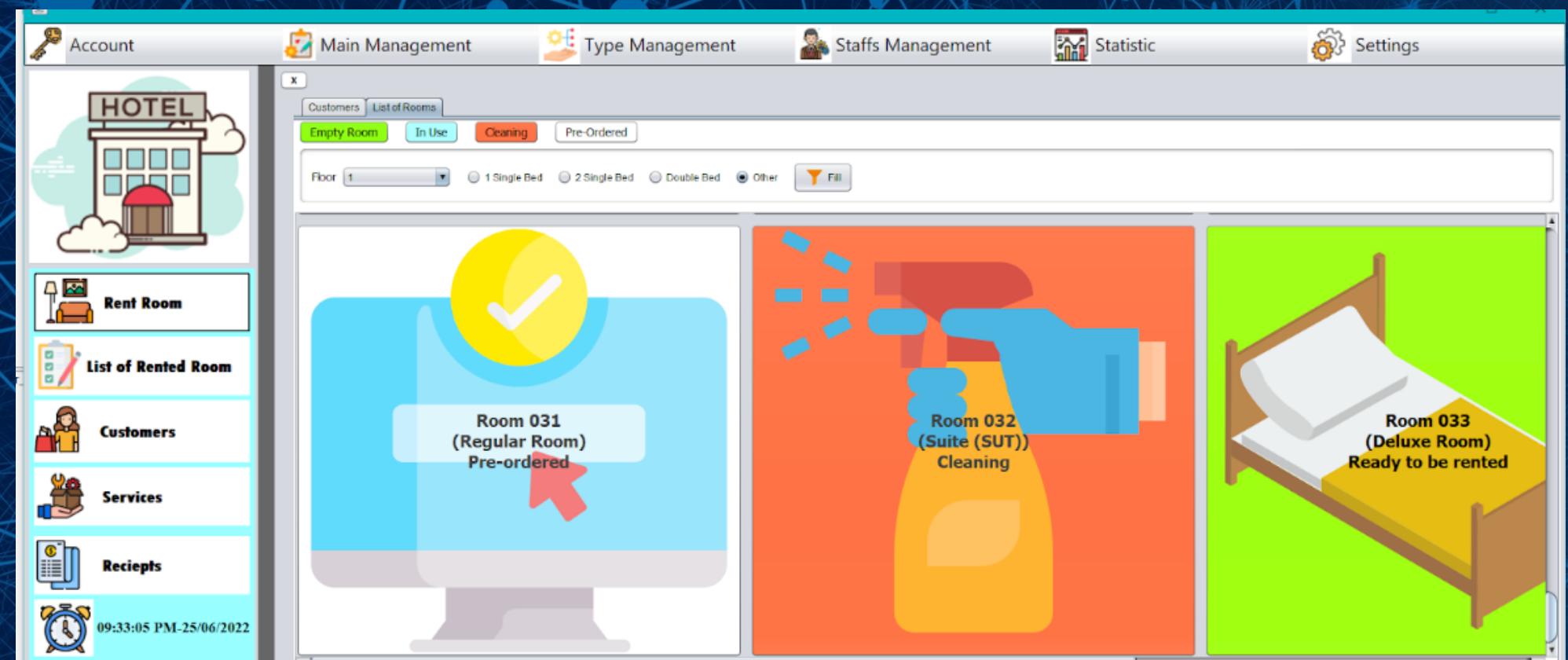
**Customer information display function:** Show add, edit, delete customer information.

**Invoice display function:** Show add, edit and delete invoice information.

# Design System Interface

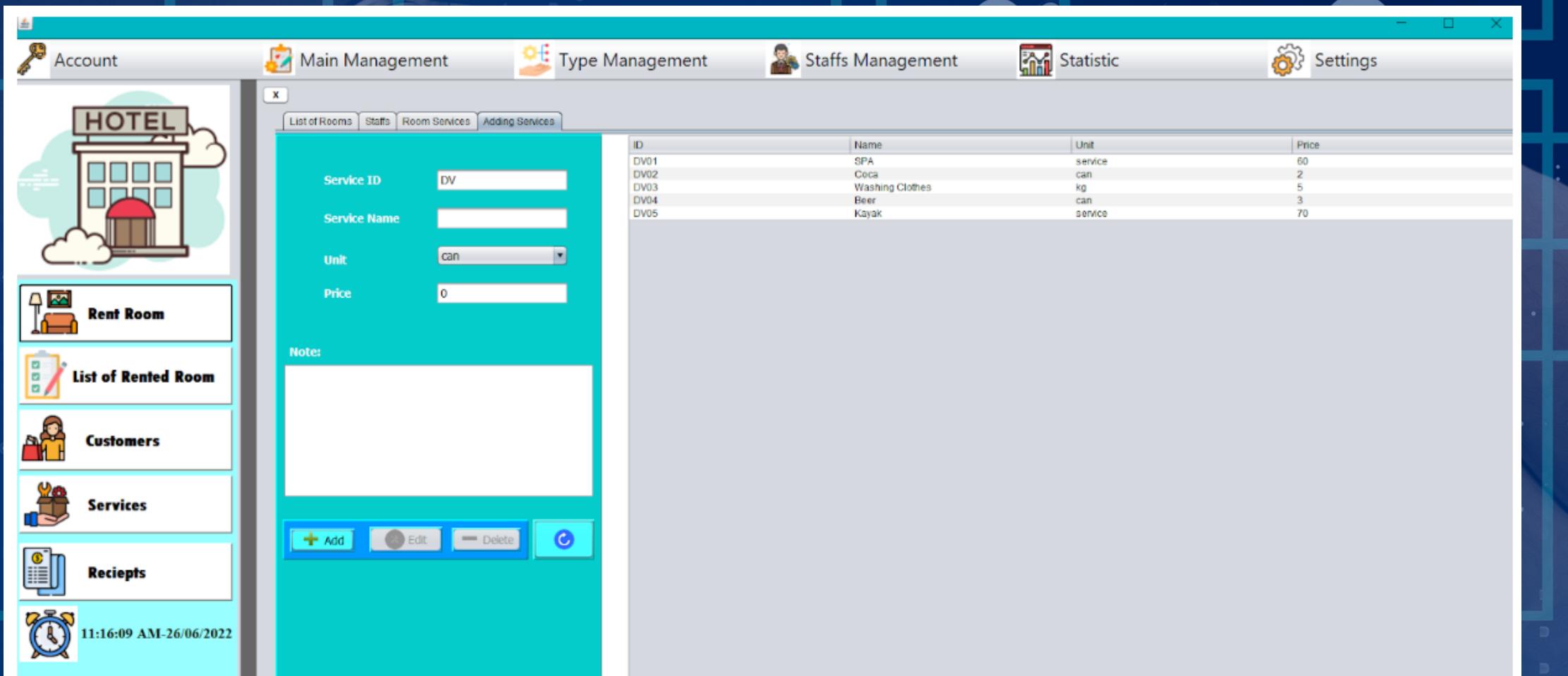
Name	Meaning	Event
Rent room	Show information room	Click
Service	Manage service	Click
room list	Manage rent room	Click
Customer	Manage customer	Click
Invoice list	Manage invoice	Click
Employee management	Manage employee	Click
Statistics	Revenue statistics	Click

## Function of Buttons



Main Interface

# Service Management Interface



## Function of Buttons

Name	Meaning	Event
Add	Add service information	Click
Edit	Edit service information	Click
Delete	Delete service information	Click
Reset	Reset service information	Click

The screenshot shows a software interface for hotel management. At the top, there is a navigation bar with icons and labels: Account, Main Management, Type Management, Staffs Management, and Staffs. Below the navigation bar, there is a sidebar on the left with icons and labels: HOTEL, Rent Room, List of Rented Room, Customers, Services, Receipts, and a timestamp of 11:38:56 AM-26/06/2022.

The main area contains two large tables and some summary statistics:

**Receipt Statistic**

Receipt ID	Room Co...	Service Co...	Total	Surcharge	Payment ...
1	70,000	0	70,000	0	2022-04-14
2	60,000	0	60,000	0	2019-05-17
3	60,000	474,000	-466,000	0	
4	90,000	0	90,000	0	2022-11-26
5	400,000	0	285,000	0	2022-12-07
6	10,000,000	120,000	10,120,000	0	2022-12-07
7	3,000,000	32,000	3,132,000	100,000	2022-12-11
8	300,000	40,000	-10,000	150,000	2022-12-12
9	1,540,000	0	1,386,000	0	2022-12-22
10	1,000,000	33,000	933,000	0	2022-12-23
11	200,000	434,000	534,000	0	2022-12-23
12	1,000,000	20,000	1,180,000	160,000	2022-12-28
13	11,430,000	0	11,330,000	0	2022-12-28
14	11,200,000	0	10,080,000	0	2022-12-28
15	1,680,000	1,000	1,581,000	0	2022-01-07
16	16,940,000	30,000	15,093,000	0	2022-01-07
17	100	0	80	0	2022-06-25

**Staffs's Salary Statistic**

Staff Name	Days Off	Days Worked	Received Date	Total
Phạm Tiến Đạt	0	3	24/06/2022	445,000

**Summary Statistics**

Service Price:	Total Income:
1,184,000	55,398,080
Tiền phòng:	Tổng số hóa đơn:
58,970,100	17

**Total Salary:**  
445,000

List ( include statistics of invoices and employee salary)



# Thank You For Following