

# **INSTRUCTION DOCUMENT**

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# **1. INTRODUCTION TO THE APPLICATION**

Based on the theory of Karaoke Management and through the process of learning about the business of a karaoke bar, thereby knowing how to operate and calculating methods in a bar, thereby proposing an idea to have can be fully managed.

Building a small-scale karaoke restaurant management application. Each room is divided into different room types such as: Premium, Luxury, Normal. The application has divided management rights including: receptionist and manager.

Karaoke management application helps employees easily control tasks related to: booking - check-out management, room search, adding new customers, editing customer information, and statistics on loyal customers to

Convenient in tracking incentives for customers. Besides, the application also helps managers and employees manage more easily such as: adding employees, editing employee information, looking up employee information.

Support cashiers in: calculating restaurant revenue by (day, month, year), collecting room fees from guests (calculating payments, printing invoices), managing invoices (finding invoices, printing invoices). single).

For the system to operate most effectively, the information provided must be accurate; Ensuring integrity: employee accounts (passwords) are encrypted and only the manager and employee have access when needed; Related data (room status, customer information, employee information, statistics) must always be available (24/24) when needed; The simple, eye-catching interface is intuitive with icons to help users easily operate the system.

This application will help karaoke restaurants reduce the burden of management, improve business efficiency and increase professionalism in service.

## **2. HARDWARE-SOFTWARE CONFIGURATION**

### **2.1 Hardware**

Intel Core i5, 2.3 GHz

Ram 8 GB or more

HDD 256 GB

### **2.2 Software**

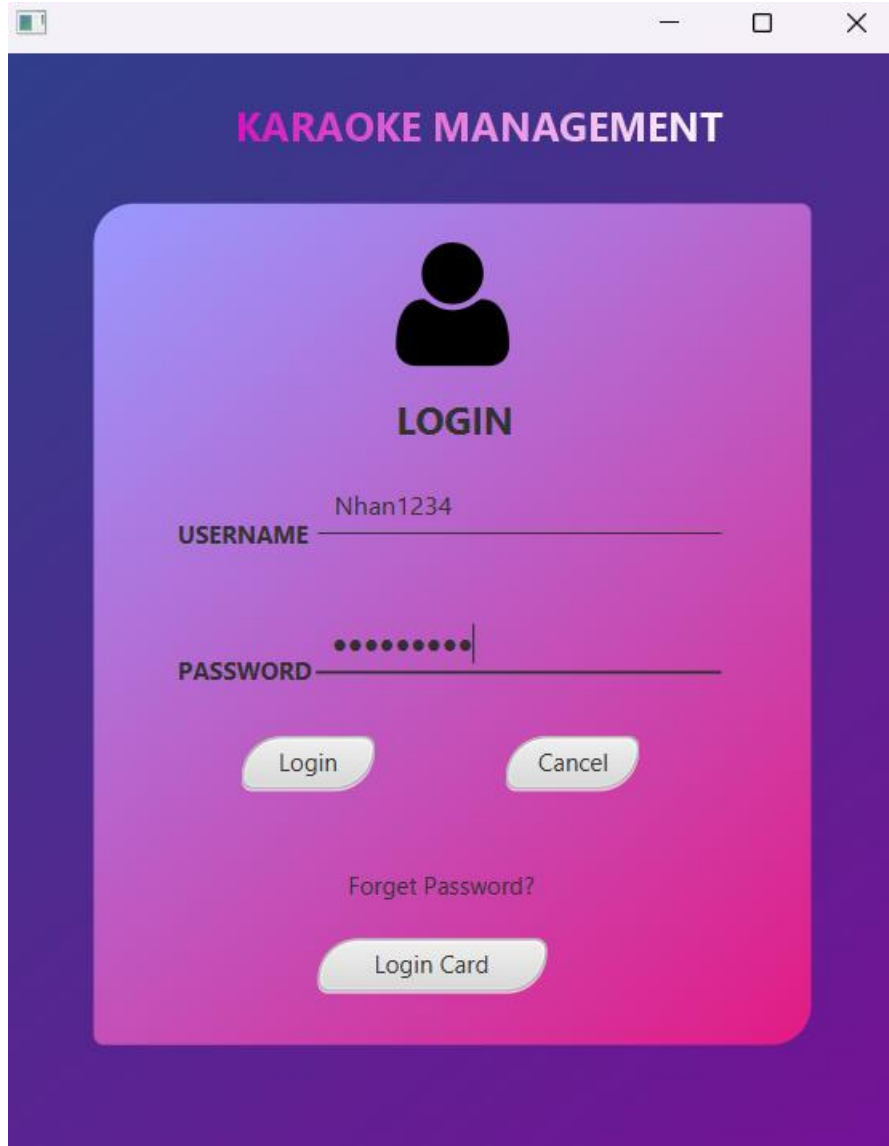
Microsoft SQL Server

Net-beans IDE 19

### 3. MAIN FUNCTIONS

#### A. Account :

- Enter complete information and press the login button



The image shows a web application window titled "KARAOKE MANAGEMENT" with a login form. The form has a purple-to-pink gradient background. At the top, there is a black silhouette of a person and the word "LOGIN" in bold. Below this, there are two input fields: "USERNAME" with the text "Nhan1234" and "PASSWORD" with masked characters (dots). There are two buttons: "Login" and "Cancel". Below the buttons, there is a link "Forget Password?" and a button "Login Card".

**KARAOKE MANAGEMENT**

**LOGIN**

USERNAME

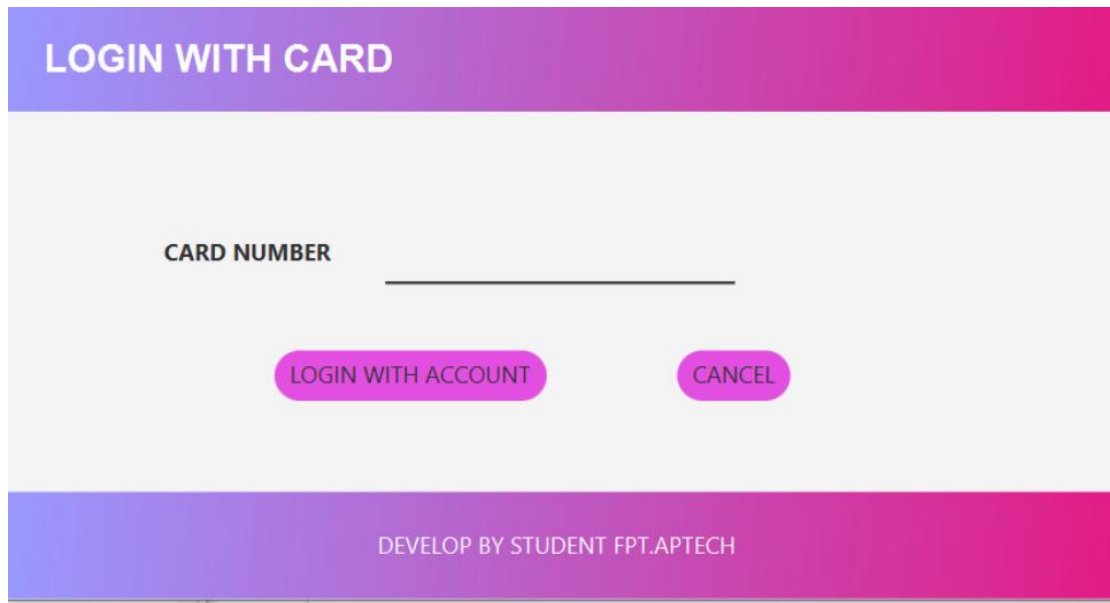
PASSWORD

Login Cancel

[Forget Password?](#)

Login Card

- Log in with ID card : Swipe your card through the card machine to log in



The image shows a login interface with a pink-to-purple gradient header and footer. The header contains the text "LOGIN WITH CARD" in white. The main area is light gray and contains the label "CARD NUMBER" above a horizontal input line. Below the input line are two pink buttons: "LOGIN WITH ACCOUNT" and "CANCEL". The footer contains the text "DEVELOP BY STUDENT FPT.APTECH" in white.

LOGIN WITH CARD

CARD NUMBER

LOGIN WITH ACCOUNT CANCEL

DEVELOP BY STUDENT FPT.APTECH

- Enter your username and press the search button

The image shows a web browser window titled "Forgot password". The page has a gradient background from purple to pink. At the top, the text "FORGET PASWORD" is displayed in red. Below this, there are four input fields and four buttons. The first row contains a "Username :" label, a text input field with "Nhan1234", and a "find" button. The second row contains a "Password :" label, a text input field with "What is your favorite color?", and a "Refresh" button. The third row contains an "Answer :" label and an empty text input field. The fourth row contains a "New Password :" label and an empty text input field. At the bottom, there are two buttons: "Save" and "return".

**FORGET PASWORD**

**Username :**

**Password :**

**Answer :**

**New Password :**

## B. Staff information :

- Add Staff : Add employee information and press the add button

MainFrame

KARAOKE

Nhan1234 ? Helps

Employee management

Account management

Product management

Customer management

Room management

Booking management

Pay

LOGOUT

### Staff information

Staff code : NV2

Full name : Doan Thi My Linh

Email : linhdoan123@outlook.com

Phone number : 0989942841

Year of birth : 2001

Sex :

Address :

Image

Find

Notification

Employee successfully added

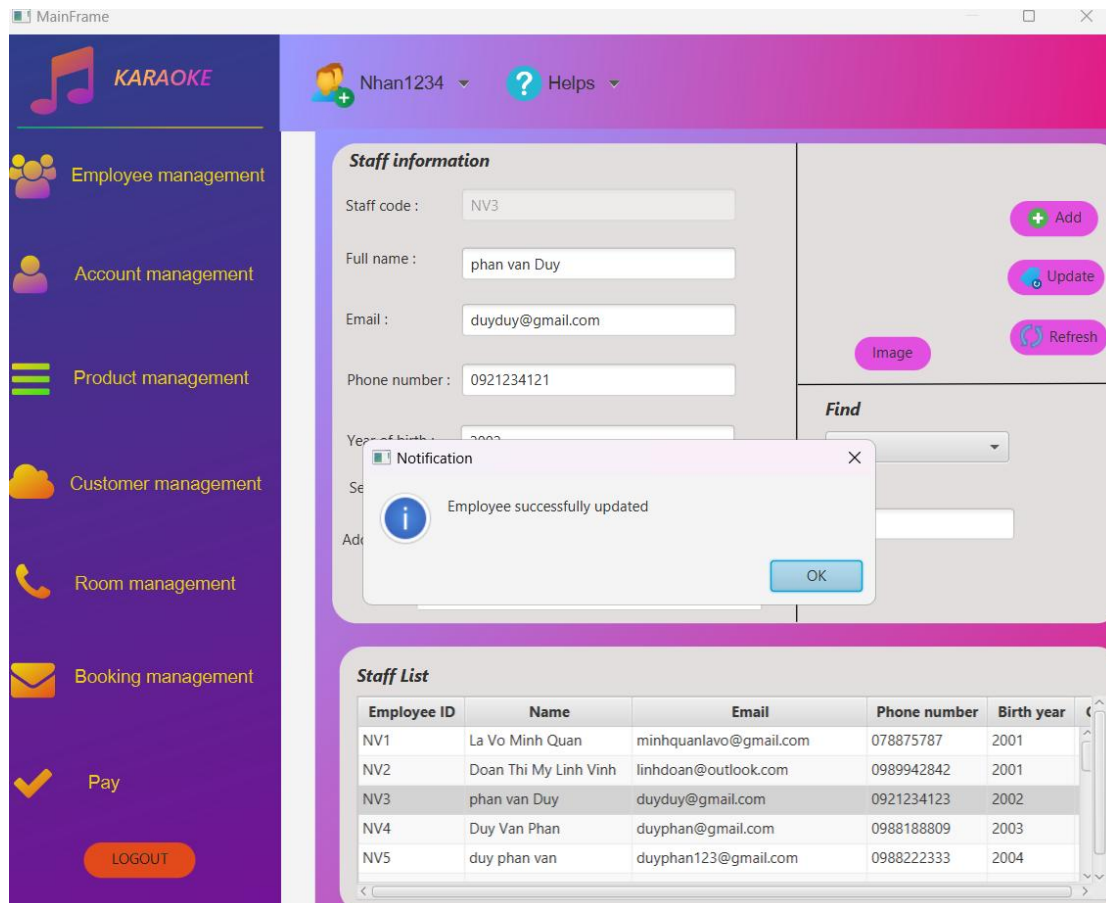
OK

### Staff List

Employee ID	Name	Email	Phone number	Birth year
NV1	La Vo Minh Quan	minhquanlavo@gmail.com	078875787	2001
NV2	Doan Thi My Linh Vinh	linhdoan@outlook.com	0989942842	2001
NV3	phan van Duy	duyduy@gmail.com	0921234123	2002
NV4	Duy Van Phan	duyphan@gmail.com	0988188809	2003
NV5	duy phan van	duyphan123@gmail.com	0988222333	2004



- Update Staff : Select any employee and press the update button



## - Find staff by name :

Year of birth :

Sex : ☐ Male ☐ Female

Address :

**Find**  

Search by account... ▾

Duy

**Staff List**

Employee ID	Name	Email	Phone number	Birth year	
NV3	phan van Duy	duyduy@gmail.com	0921234121	2002	
NV4	Duy Van Phan	duyphan@gmail.com	0988188809	2003	
NV5	duy phan van	duyphan123@gmail.com	0988222333	2004	
NV6	duy phan van van	duyphan1223@gmail.com	0988222334	2004	
NV7	Phan Van Duy	Phanduy11123@gmail.com	0988177707	2002	

## -Find staff by phone number :

Year of birth :

Sex : ☐ Male ☐ Female

Address :

Search by phone ... ▾

0988177

**Staff List**

Employee ID	Name	Email	Phone number	Birth year	
NV7	Phan Van Duy	Phanduy11123@gmail.com	0988177707	2002	M
NV8	Phan Van Duy	phanduy111231@gmail.com	0988177773	2002	M

## C. Account Management :

- Add account : Enter complete information and press the add button

**KARAOKE**

Duy123   ? Help

**Account information**

Username : Duy2222

Password : Duy1234@

Role :

Staff :

Question : What is your favorite color?

Reply : green

**Find Account**

Choose username

**Information**

Account added successfully

OK

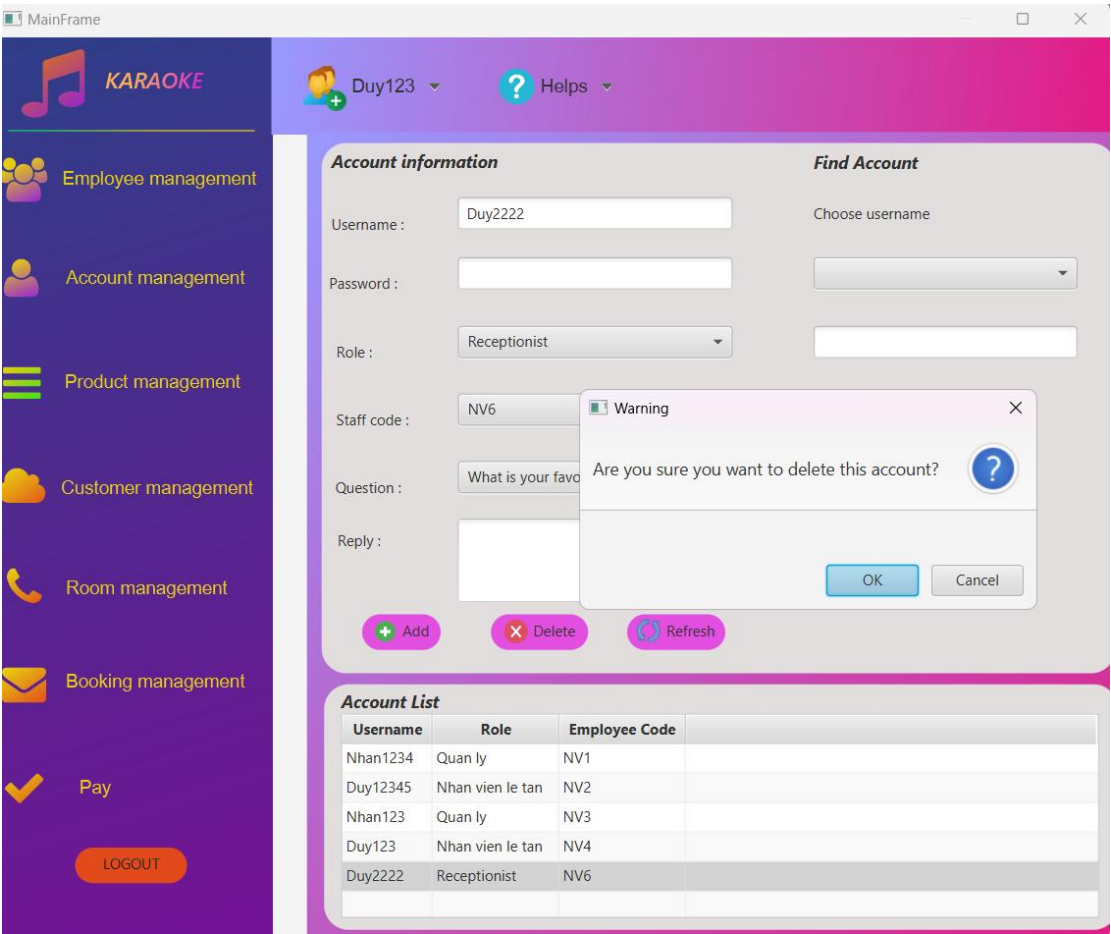
**Account List**

Username	Role	Employee Code
Nhan1234	Quan ly	NV1
Duy12345	Nhan vien le tan	NV2
Nhan123	Quan ly	NV3
Duy123	Nhan vien le tan	NV4

**Buttons:** Add, Delete, Refresh

**Logout**

- Delete account : Select any account line and press the delete button



## - Find account by user name

Password :

Search by username ▼


Role :


Duy


Staff code :

Question :

Reply :

 Add

 Delete

 Refresh

**Account List**

Username	Role	Employee Code	
Duy12345	Nhan vien le tan	NV2	
Duy123	Nhan vien le tan	NV4	

## D. Room management:

- Add room : Click on any room and press the add button

The screenshot displays the KARAOKE management interface. On the left is a purple sidebar with navigation options: Employee management, Account management, Product management, Customer management, Room management (highlighted), Booking management, and Pay. At the bottom of the sidebar is a 'LOGOUT' button. The top header shows the user 'Nhan1234' and a 'Helps' link. The main content area is divided into two panels: 'Type of room' and 'Sing room'. The 'Type of room' panel has input fields for 'Room type code' (LP\_5N), 'Room type name' (Normal), and a '+ Add' button. The 'Sing room' panel has input fields for 'Room code' (MP6) and 'Room name' (Phòng N5), with a '+ Add' button. A modal dialog titled 'Information' is open in the center, displaying a blue information icon and the message 'Room added successfully', with an 'OK' button. Below these panels is the 'Sing room list' section, which contains a table with the following data:

Room ID	Room Name	Room Type Name	Invoice	Status
MP1	Phòng N1	Normal	80000.0	Trong
MP2	Phòng P1	Premium	120000.0	Trong
MP3	Phòng N2	Normal	80000.0	Trong
MP5	Phòng N4	Normal	80000.0	Trong
MP6	Phòng N5	Normal	80000.0	Trong
MP9	Phòng P3	Premium	120000.0	Trong
MP10	Phòng L1	Luxury	150000.0	Trong
MP11	Phòng L2	Luxury	150000.0	Trong
MP12	Phòng L3	Luxury	150000.0	Trong

- Delete room : Click on any room and press the delete button

The screenshot displays a web application for KARAOKE management. On the left is a dark purple sidebar with icons and labels for various functions: Employee management, Account management, Product management, Customer management, Room management, Booking management, and Pay. At the bottom of the sidebar is a 'LOGOUT' button. The top header is pink and shows a user profile 'Nhan1234' and a 'Helps' link. The main content area is divided into two panels: 'Type of room' and 'Sing room'. The 'Type of room' panel has fields for 'Room type code' (LP\_15N) and 'Room type name' (Luxury). The 'Sing room' panel has fields for 'Room code' (MP12) and 'Room name' (Phòng L3). A modal dialog box titled 'Information' is open in the center, displaying a blue information icon and the text 'Deleted successfully', with an 'OK' button at the bottom right. Below the modal is a 'Sing room list' table.

Room ID	Room Name	Room Type Name	Invoice	Status
MP11	Phòng L2	Luxury	150000.0	Trong
MP12	Phòng L3	Luxury	150000.0	Trong
MP13	Phòng P4	Premium	120000.0	Trong
MP14	Phòng N6	Normal	80000.0	Trong
MP15	Phòng L4	Luxury	150000.0	Trong
MP16	Phòng P1	Premium	120000.0	Trong
MP19	Phòng N1	Normal	80000.0	Trong
MP23	Phòng N1	Normal	80000.0	Trong
MP24	Phòng N5	Normal	80000.0	Trong

## E. Customer Management:

- Add customer : Enter complete customer information and press the add button

The screenshot displays the KARAOKE system interface. On the left is a purple sidebar with navigation options: Employee management, Account management, Product management, Customer management, Room management, Booking management, and Pay. The main area is titled 'Customer information' and shows a form for adding a new customer. The form fields are: Customer code (KH7), Customer name (Le Thu Yen), and Phone number (0902888833). A notification dialog box is open in the center, stating 'The customer has been added successfully' with an 'OK' button. Below the form are buttons for 'Add', 'Update', and 'Refresh'. At the bottom, there is a table of existing customers.

Customer code	Customer name	Phone number	Number of Visits	Customer Type
KH1	Tran Thi Anh	0123456782	1	Khach Hang Tiem Nang
KH2	Nguyen Nhan Nghia	0998877121	1	Khach Hang Tiem Nang
KH3	Nguyen Hoang Khai	0843567212	1	Khach Hang Tiem Nang
KH4	Pham Thanh Long	0254963421	1	Khach Hang Tiem Nang
KH5	Huynh Anh Vu	0941608708	1	Khach Hang Tiem Nang
KH6	Vo Van Nhat	0867676782	1	Khach Hang Tiem Nang
KH7	Le Thu Yen	0902888834	1	Khach Hang Tiem Nang



- update customer : Click on any customer and click update

The screenshot displays a web application for KARAOKE management. On the left is a dark purple sidebar with icons and labels for various functions: Employee management, Account management, Product management, Customer management, Room management, Booking management, and Pay. At the bottom of the sidebar is a 'LOGOUT' button. The top header is pink and shows a user profile 'Nhan1234' and a 'Helps' link. The main content area is divided into two sections. The top section, titled 'Customer information', contains input fields for 'Customer code' (KH6), 'Customer name' (Vo Van Nhat), and 'Phone number' (0867676783). A notification box with an information icon and the text 'You have successfully updated' is overlaid on this section, with an 'OK' button. Below the notification is a 'Refresh' button. The bottom section, also titled 'Customer information', features a dropdown menu and a table of customers.

Customer code	Customer name	Phone number	Number of Visits	Customer Type
KH1	Tran Thi Anh	0123456782	1	Khach Hang Tiem Nang
KH2	Nguyen Nhan Nghia	0998877121	1	Khach Hang Tiem Nang
KH3	Nguyen Hoang Khai	0843567212	1	Khach Hang Tiem Nang
KH4	Pham Thanh Long	0254963421	1	Khach Hang Tiem Nang
KH5	Huynh Anh Vu	0941608708	1	Khach Hang Tiem Nang
KH6	Vo Van Nhat	0867676782	1	Khach Hang Tiem Nang
KH7	Le Thu Yen	0902888834	1	Khach Hang Tiem Nang

F. Booking management :  
- Rent room :

KARAOKECHILL

Name: Dang To Nhan

Role: Quan Ly

Employee management

Account management

Product management

Customer management

Room management

Booking management

Pay

LOGOUT

Nhan123

Helps

BOOK ROOM

Reserve

Customer code :  
KH1

Phone number :  
0123456789

Find

Customer name :  
Tran Thi Anh Tuan

Choose room :

Room Id

Room Name

Type

Set Time

Status

MP2

Phong N1

Normal

80000.0

Trong

MP3

Phong N2

Normal

80000.0

Trong

MP4

Phong N3

Normal

80000.0

Trong

OK

Rent now

Refresh

Thong bao

Thuê phòng thành công

OK

Room List

Room Id

Customer

Number

Room Name

Type

Set Time

Status

DP1

Nguyen Nhan Nghia

0998877123

Phong N1

Normal

2021-12-16 14:30:14.0

Đã Thanh Toán

DP2

Tran Thi Anh Tuan

0123456789

Phong N2

Normal

2021-12-22 21:45:10.0

Chưa Thanh Toán

DP3

Nguyen Nhat Nghia

0867676713

Phong L1

Luxury

2021-12-22 21:46:48.0

Đã Truoc

DP4

Nguyen Nhan Nghia

0998877123

Phong N1

Normal

2024-07-03 00:00:00.0

Đã Truoc

DP5

Tran Thi Anh Tuan

0123456789

Phong N2

Normal

2024-07-04 00:00:00.0

Hủy Đơn

DP6

Tran Thi Anh Tuan

0123456789

Phong N1

Normal

2024-07-08 12:15:55.0

Đã Thanh Toán

DP7

Tran Thi Anh Tuan

0123456789

Phong N1

Normal

2024-07-08 15:43:05.0

Đã Thanh Toán

DP8

Pham Thanh Long

0254963421

Phong N1

Normal

2024-07-09 08:51:21.0

Chưa Thanh Toán

DP9

Tran Thi Anh Tuan

0123456789

Phong N2

Normal

2024-07-09 09:19:47.0

Chưa Thanh Toán

DP10

Tran Trong Tin

0867676735

Phong N3

Normal

2024-07-09 09:24:41.0

Đã Thanh Toán

DP11

Nhan

0867676736

Phong P1

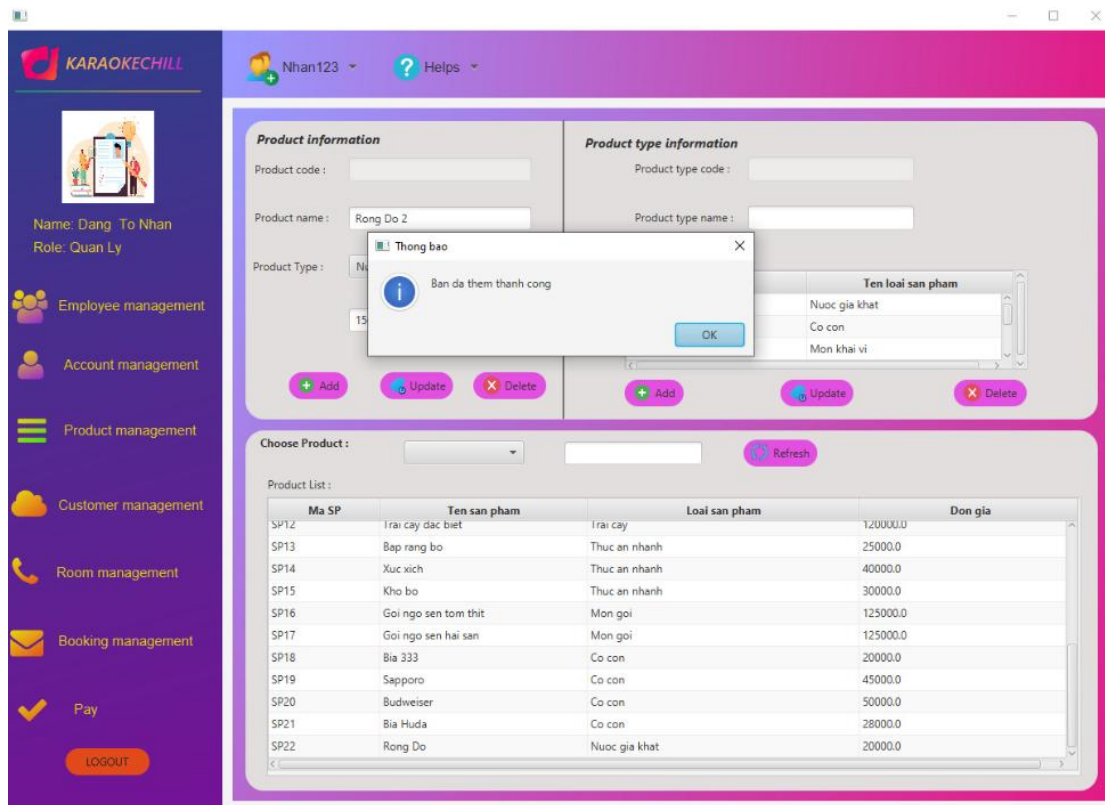
Premium

2024-07-09 09:52:20.0

Đã Thanh Toán

## G. Product management :

- Add product : Fill in the product information and click the add button



- Delete product : Click on any product and click delete

The screenshot displays the KARAOKECHILL management system interface. On the left is a purple sidebar with navigation options: Employee management, Account management, Product management (highlighted), Customer management, Room management, Booking management, Pay, and a LOGOUT button. The main area has a pink header with the user's name 'Nhan123' and a 'Helps' link. Below the header, there are two panels: 'Product information' and 'Product type information'. The 'Product information' panel shows fields for Product code (SP28), Product name (Rong Do 2), and Product Type (N). The 'Product type information' panel shows fields for Product type code and Product type name. A confirmation dialog box titled 'Canh bao' (Warning) is centered on the screen, asking 'Ban co chac muon xoa san pham nay?' (Are you sure you want to delete this product?). The dialog has 'Yes' and 'No' buttons. Below the dialog, there are 'Add', 'Update', and 'Delete' buttons for both product and product type information. At the bottom, there is a 'Choose Product' dropdown and a 'Refresh' button. Below these is a 'Product List' table with columns: Ma SP, Ten san pham, Loai san pham, and Don gia.

Ma SP	Ten san pham	Loai san pham	Don gia
SP13	Bep rang bo	Thuc an nhanh	25000.0
SP14	Xuc xich	Thuc an nhanh	40000.0
SP15	Kho bo	Thuc an nhanh	30000.0
SP16	Goi ngo sen tom thit	Mon goi	125000.0
SP17	Goi ngo sen hai san	Mon goi	125000.0
SP18	Bia 333	Co con	20000.0
SP19	Sapporo	Co con	45000.0
SP20	Budweiser	Co con	50000.0
SP21	Bia Huda	Co con	28000.0
SP22	Rong Do	Nuoc gia khat	20000.0
SP28	Rong Do 2	Nuoc gia khat	150000.0

## H. Pay :

- Pay : Select the customer in the table and press the payment button

The screenshot displays the KARAOKECHILL Pay interface. A modal window titled "Thông tin thanh toán" (Payment Information) is open, showing the following details:

- Khách hàng: Tran Thi Anh Tuan
- Mã hóa đơn: HD10
- Thời gian ra: 09-07-2024 05:01 CH
- Thời gian vào: 09-07-2024 09:19 SA
- Thời gian sử dụng: 462 phút
- Tiền dịch vụ: 0 đ
- Tổng tiền: 616.000 đ
- Đơn giá: 80.000 đ
- Tiền sử dụng phòng: 616.000 đ

The modal has an "OK" button at the bottom right. In the background, the "PAY" screen shows a table of customers:

Set code	Room	Customer Name	Status
DP2	MP3	Tran Thi Anh Tuan	false
DP8	MP1	Pham Thanh Long	false
DP9	MP3	Tran Thi Anh Tuan	true

The interface also includes a sidebar with navigation options: Employee management, Account management, Product management, Customer management, Room management, Booking management, and Pay. The bottom status bar shows "Total service fee: 0.0 VND".

- Invoice :



## INVOICE

Customer Name: Duy Phan

Invoice ID: HD9

Check-in Time: 09-07-2024 11:16  
SA

Check-out Time: 09-07-2024  
11:21 SA

Duration: 4 phut

Room Rate: 80.000

Room Charge: 5.333

Service Charge: 303.000

Total: 308.333

No.	Service	Qty	Price
1	Pepsi	5	15000.0
2	Redbull	4	22000.0
3	Heneiken	5	28000.0

Staff Signature