

# Eproject

## E-Project for Semester No.4

### Industrial Catering

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**Ho Chi Minh City, 07/02/2025**

HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH



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## INTRODUCE EPROJECT – PROJECT NAME

### 1. Problem definition of project:

This website is a meal service management system for businesses. It helps meal service providers efficiently manage services, menus, contracts, and customers, while allowing business clients to order meals, track contracts, and make payments conveniently.

Practical Applications:

- For Meal Service Providers: Manage menus, meal groups, and weekly meal packages. Track contracts, payments, and send renewal reminders. Receive and process meal requests from customers.
- For Business Clients: Register meal supply contracts based on their needs. Choose from available menus or create custom menus. Submit daily meal requests and track payments and contracts.

### 2. List of Inputs to the Website:

✓ Admin:

- Login.
- Create/Read/Update, manage account of User.
- Read/Update, upload, senmail, manage Contracts.
- Send and notify users of their monthly Invoices.
- Create/Read/Update/Delete(CRUD) of News.
- Create/Read/Update/Delete(CRUD) of Meals.
- Create/Read/Update/Delete(CRUD) of Menu.
- Reject or approve Meal request.

✓ User:

- Register/Login/Logout/Change/Forgot Password.
- Create/Delete menu of user.
- Create/Read contract and pay the contract deposit.
- Create meal request.
- Like, comment in news
- Pay the invoice, payment history.
- Senmail.

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### 3. List of Outputs Expected from the Website

✓ Admin:

- View the list and details of user accounts.
- Manage the list of contracts, contract information, and send emails to users.
- Generate and send monthly invoices to each user.
- View the list, content of news, and user feedback.
- Manage the list of meals and menus (edit, delete).
- View the list of meal requests with their approved or rejected status.

✓ User:

- Access and edit personal account information.
- View the list and details of contracts, make contract deposit payments.
- View the list of meals and menus.
- Check the status of submitted meal requests.
- View and interact with news (like, comment).
- View monthly invoices and make payments.
- Receive notifications from the admin.

### 4. Overview of Processes Involved in the Website (example below)

#### Account Management:

- Users register an account, log in, change their password, or recover their password if forgotten.
- Admin manages the list of users and can update account information.

#### Contract Management:

- Users can create contracts and make deposit payments.
- Admin can manage, update contracts, and send related email notifications.

#### Invoice Management:

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- Admin generates monthly invoices and sends notifications to users.
- Users can view and pay invoices via the website.

#### **Menu and Meal Management:**

- Admin can create, edit, and delete meals and menus.
- Users can create personal menus and submit meal requests.
- Admin approves or rejects meal requests.

#### **News and Interaction:**

- Admin can create, update, and delete news.
- Users can read, like, and comment on news.

#### **Sending and Receiving Emails:**

- Admin can send emails related to contracts, invoices, or important announcements.
- Users can send emails to the admin for support.

### **5. Hardware and Software Required for Implementing the Project**

✓ Hardware:

- 64 Megabytes of RAM or better.
- Java Web Component Development (WCD)

✓ Software:

- Spring tool suite 4
- SQL Server Management Studio 20.1.

### **6. Flow chart of User**

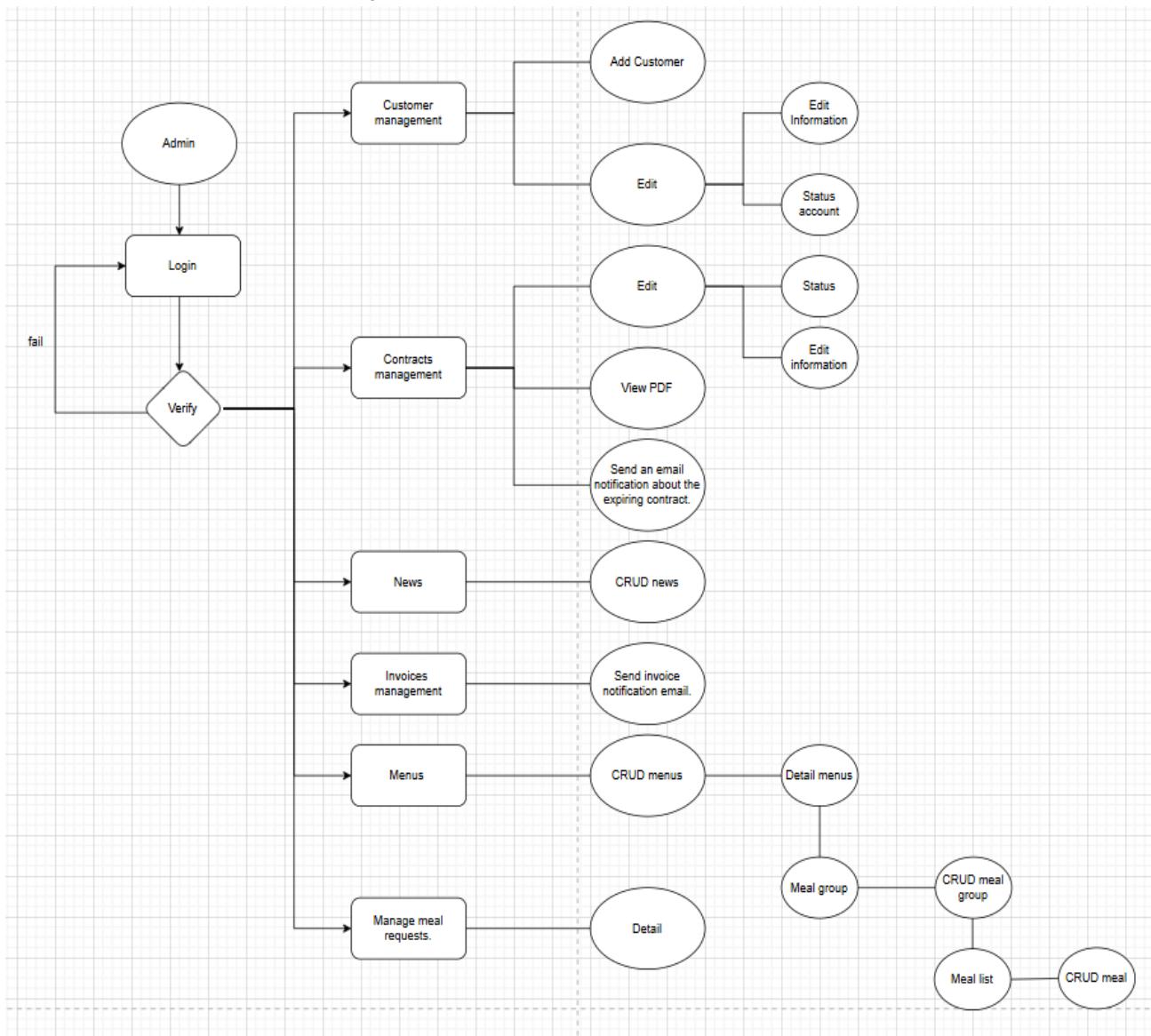
✓ Admin:

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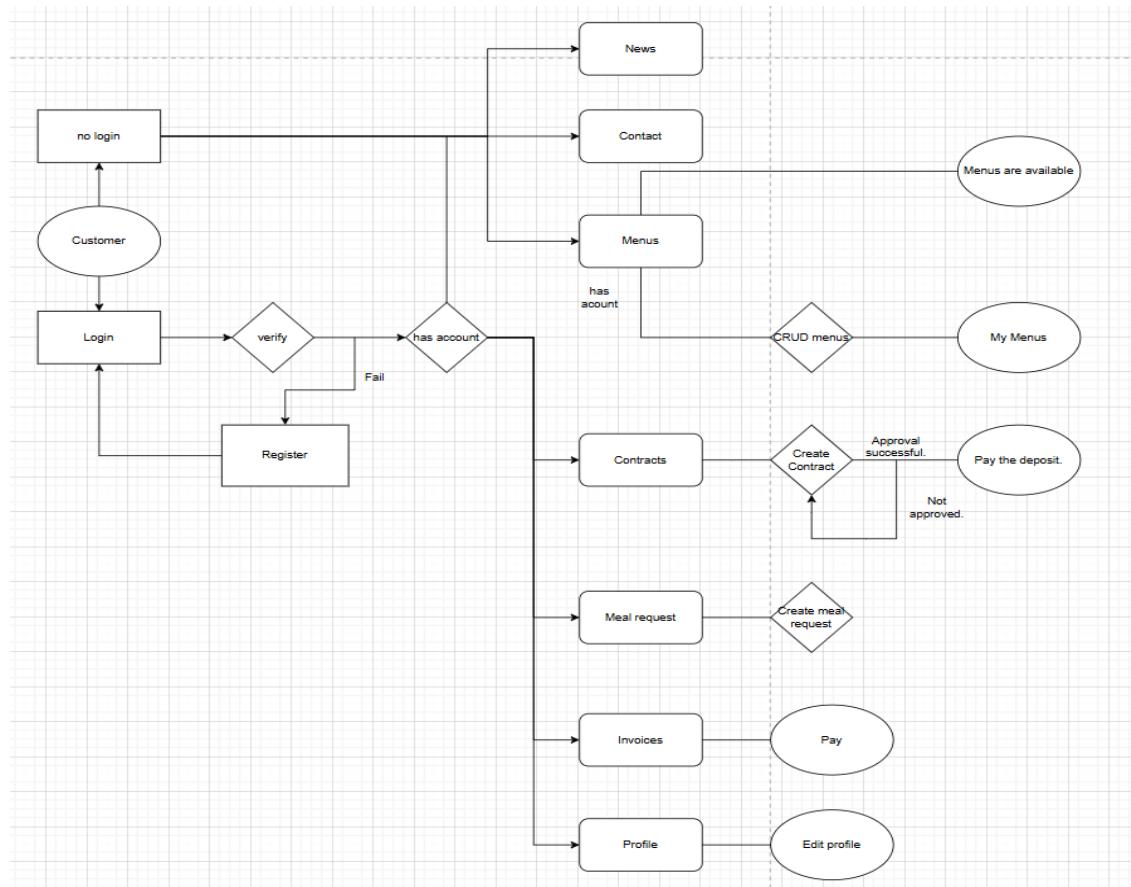
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✓ User:



## 2. Table assigning tasks to members (for Leader)

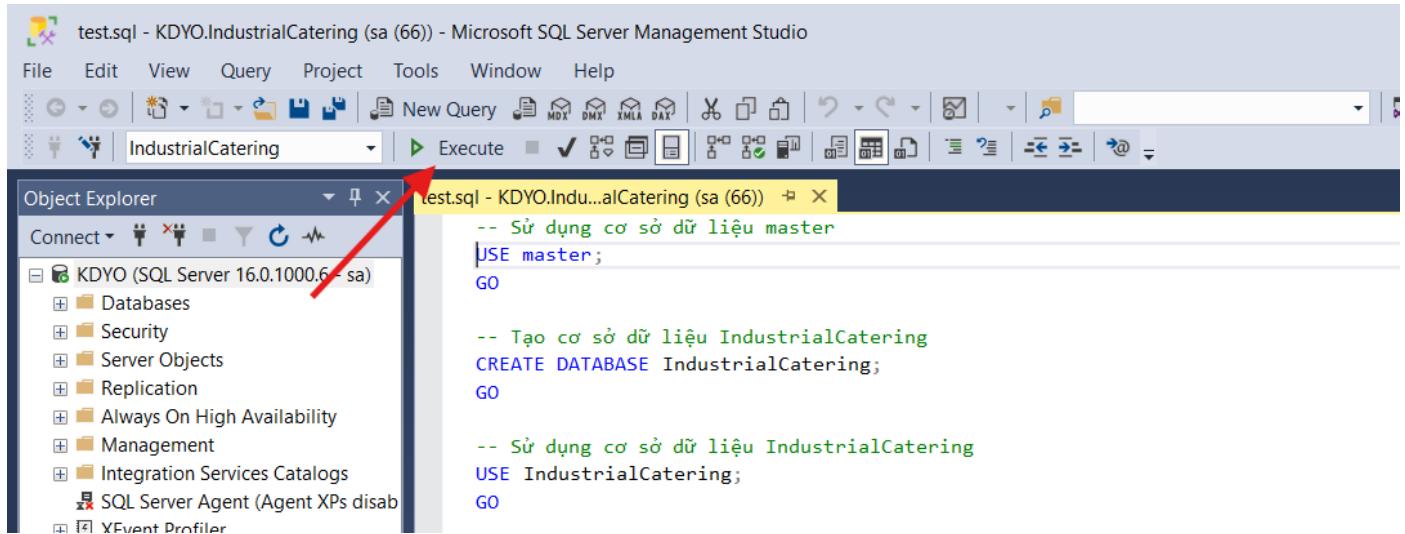
STT	Function	Function Detail	Level	Recipient	Note	Type
<b>Database</b>						
1	Create Database		Low	Trương Kháng Dỹ		
2	Drawing Diagram		Low	Hoàng Đức Lương		
<b>Guest (No login required)</b>						
1	Build template	Design user website	Medium	Hoàng Đức Lương		
2	News website	Design news page	Medium	Hoàng Đức Lương		
3	Contact	Design contact page	Medium	Hoàng Đức Lương		
4	Menu available	Design menu page	Medium	Hoàng Đức Lương		
<b>Client (Required to login)</b>						
1	Login	Login, Register, Logout	Medium	Hoàng Đức Lương		
2	Personal information	Change user information, change password	Medium	Hoàng Đức Lương		
3	Contract	Create contract, detail, sendmail, create pdf, payment	High	Trương Kháng Dỹ		
4	Invoice	Show invoice list, payment, detail	High	Trương Kháng Dỹ		
5	Payment history		Low	Trương Kháng Dỹ		
6	My Menu	Create, detail	Medium	Trương Kháng Dỹ		
7	News	News Blog(Like, Comment in news)	Low	Hoàng Đức Lương		
8	Meal Request	user can request meal	Medium	Hoàng Đức Lương		
<b>Admin</b>						
1	Customers Management	Add new customer, update information customer, search, pagin	Medium	Trương Kháng Dỹ		
2	Contracts Management	Send an email when there is a change, update	High	Trương Kháng Dỹ		
3	Invoices Management	filter, Invoice Submission, status payment, Debt, Invoices due	High	Trương Kháng Dỹ		
4	News Manager	CRUD news	Medium	Hoàng Đức Lương		
5	Meals	CRUD Meals	Medium	Hoàng Đức Lương		
6	Meal Request	reject or approve	Medium	Hoàng Đức Lương		
7	Menu	CRUD Menus	Medium	Hoàng Đức Lương		

## HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH

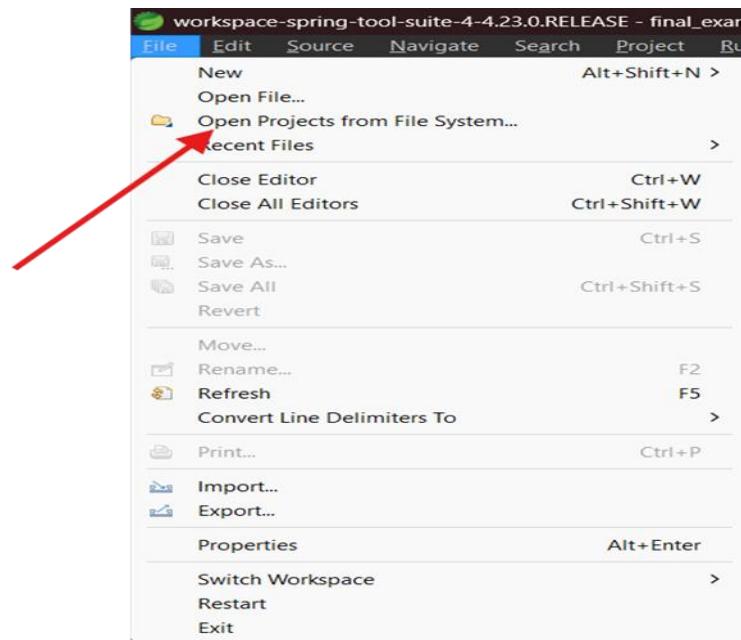
# INSTRUCTION TO RUN THE PROJECT

## 1. Import database into SQL Server

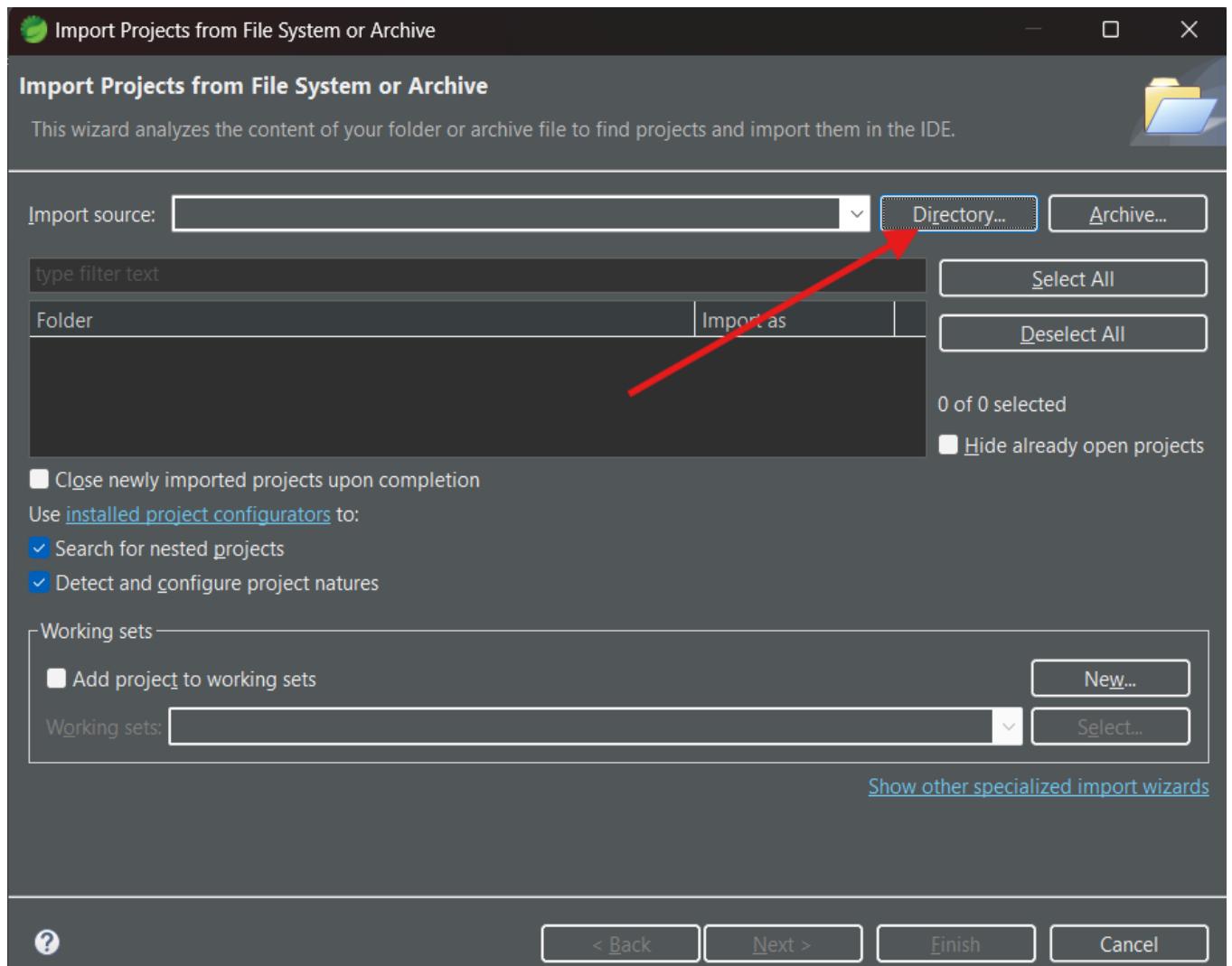
You open **IndustrialCatering.sql** file that We sent with SQL Server then run it.



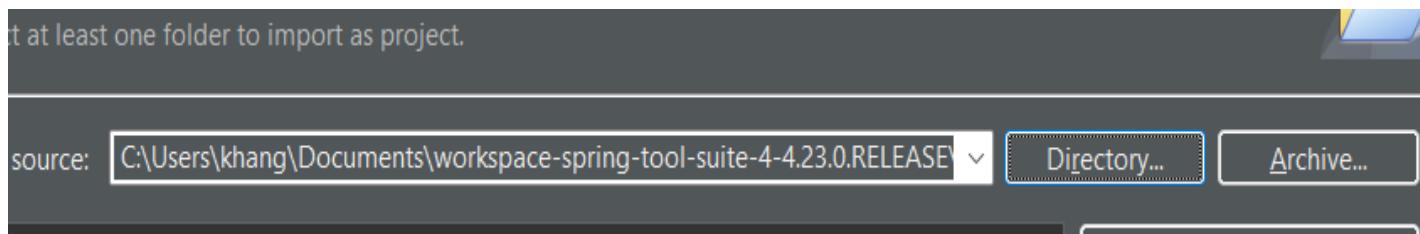
## 2. Import Project into String tool suite



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Select the path containing the project.



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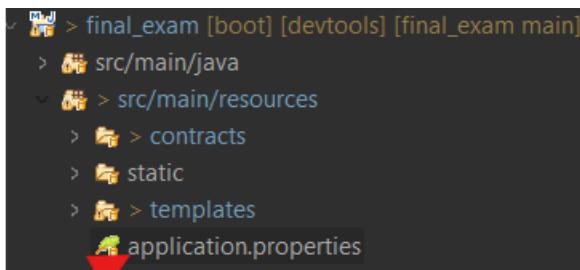
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Then select "Finish" to import the project.



Next, select "Application.properties"



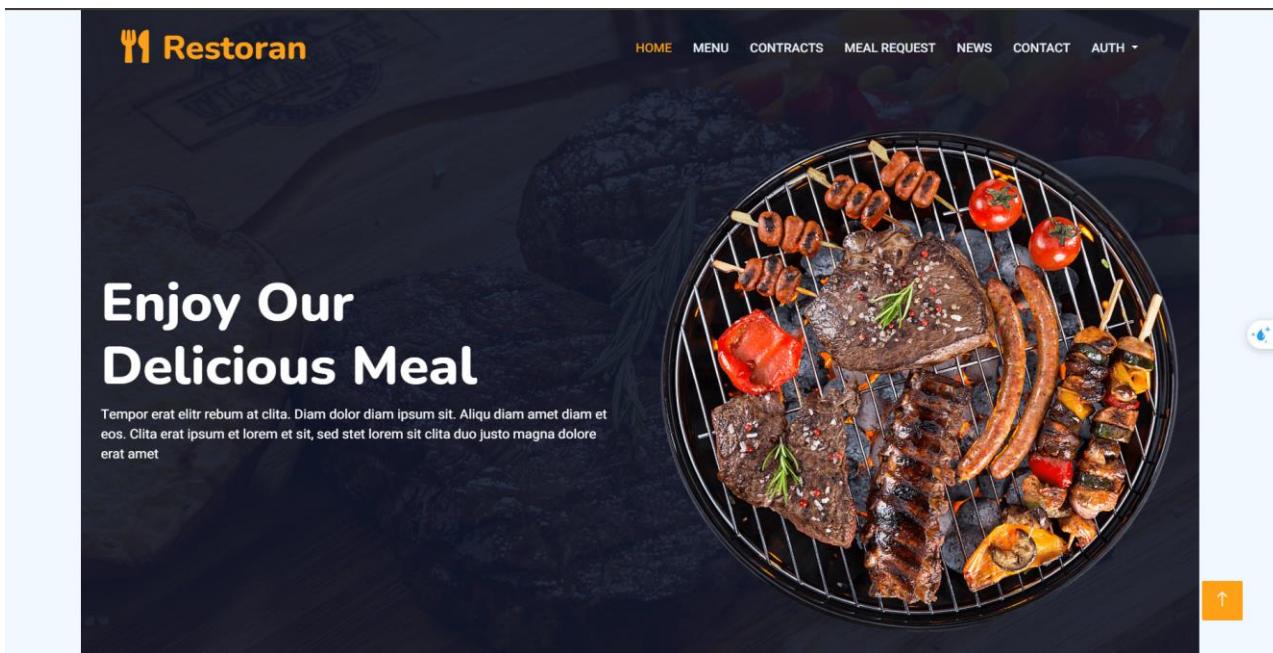
Change the SQL Server username and password.

```
# Datasource configuration
spring.datasource.url=jdbc:sqlserver://localhost:1433;databaseName=IndustrialCatering;encrypt=false;trustServerCertificate=true;
spring.datasource.username=sa
spring.datasource.password=123
spring.datasource.driver-class-name=com.microsoft.sqlserver.jdbc.SQLServerDriver
```

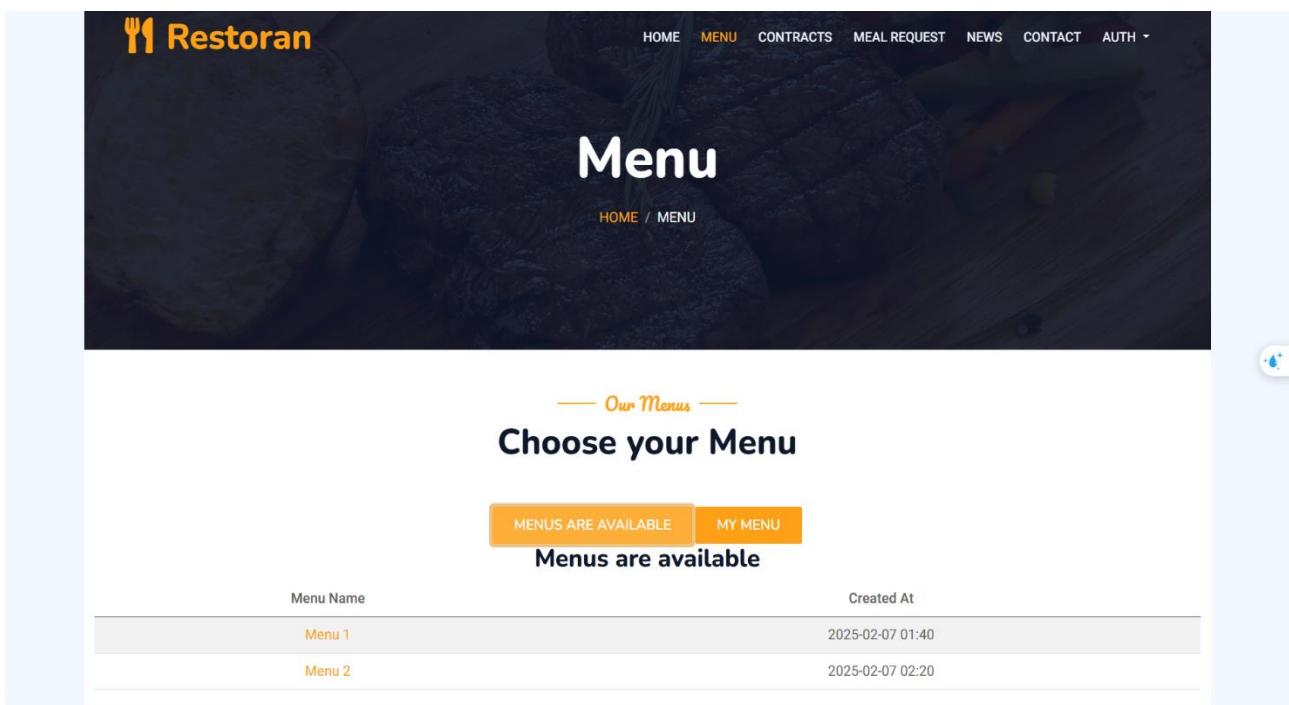
The screenshot shows the 'application.properties' file with the following content. A red box highlights the database configuration section. A red arrow points from the 'application.properties' file in the previous screenshot to this section.

### 3. Run Web Application (Web User):

- No login



We can access the available menu.

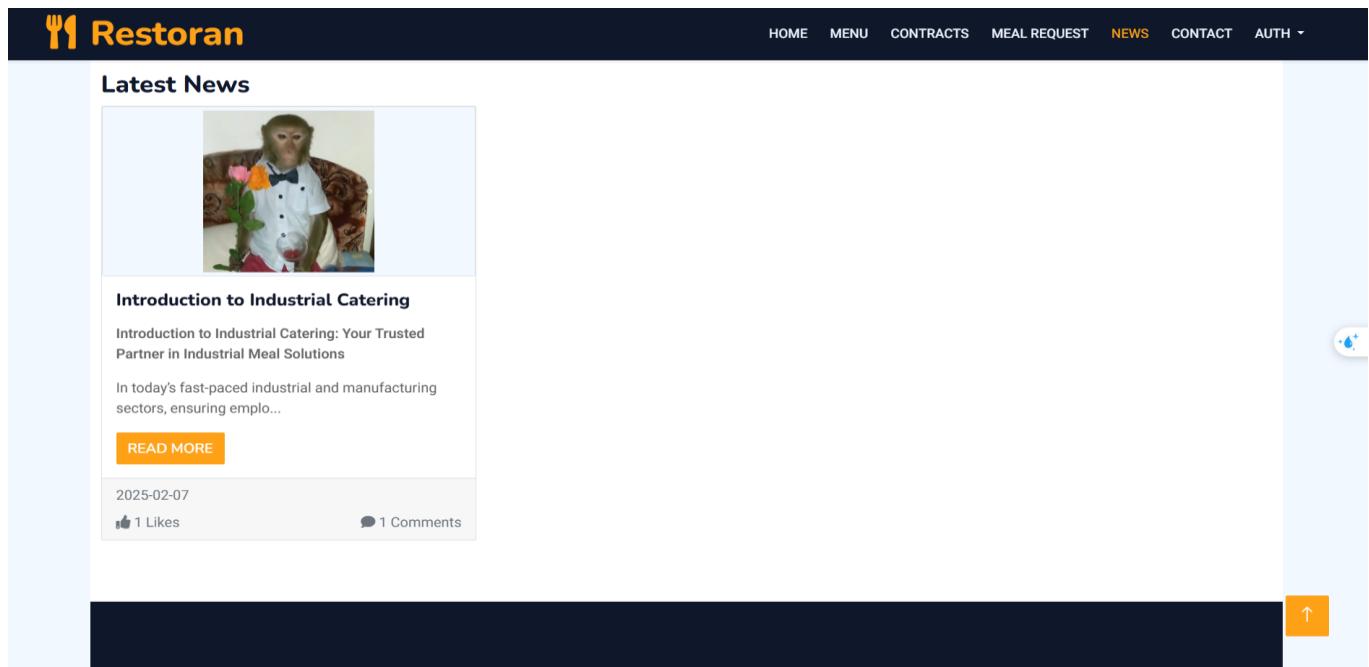


The screenshot shows the "Menu" page of the Restoran website. The top navigation bar includes a "MENU" link. The main content area features a large image of a dish, followed by the text "Choose your Menu". Below this, there are two buttons: "MENUS ARE AVAILABLE" (highlighted in orange) and "MY MENU". A section titled "Menus are available" lists two items:

Menu Name	Created At
Menu 1	2025-02-07 01:40
Menu 2	2025-02-07 02:20

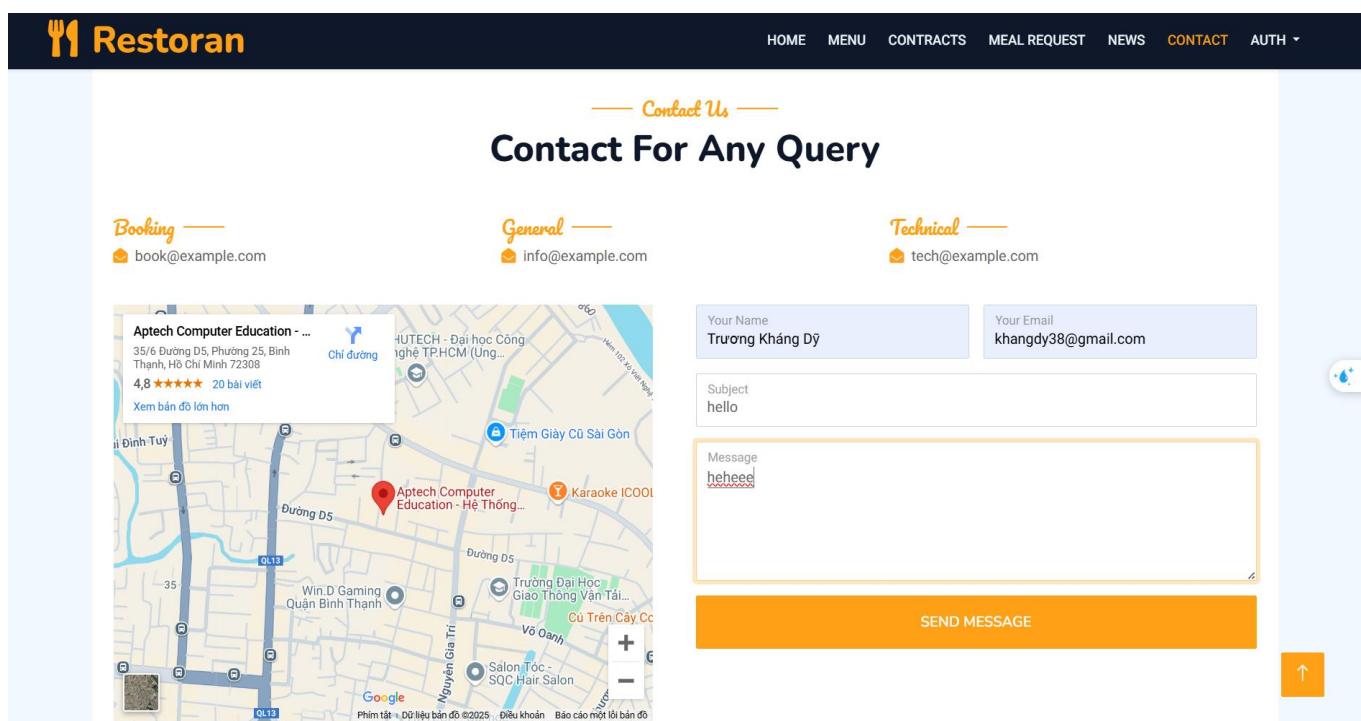
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We can access the news.



The screenshot shows a news article titled "Introduction to Industrial Catering". The article features a photo of a monkey dressed in a tuxedo holding a rose. The text discusses the company's role in industrial meal solutions and mentions employment opportunities. Below the article is a "READ MORE" button, the date "2025-02-07", and social media interaction counts ("1 Likes" and "1 Comments").

We can send a contact email to the admin.



The screenshot shows a "Contact Us" section with three categories: "Booking" (email: book@example.com), "General" (email: info@example.com), and "Technical" (email: techi@example.com). To the right is a contact form with fields for "Your Name" (Trương Kháng Đý), "Your Email" (khangdy38@gmail.com), "Subject" (hello), and a "Message" box containing "heheee". A large orange "SEND MESSAGE" button is at the bottom. On the left, there is a map of a city area with a red dot marking the location of Aptech Computer Education.

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The screenshot shows a Gmail inbox interface. At the top, there's a search bar with a magnifying glass icon and the text "Tìm kiếm trong thư". To the right of the search bar is a grid icon consisting of four small squares. Below the search bar is a toolbar with icons for back, forward, reply, delete, and more. The main area displays an incoming message from "Contact from: hello". The message is from "lhoangduc47@gmail.com" and is addressed to the user. It includes the recipient's name, Trương Kháng Dỹ, and email address, khangdy38@gmail.com. The message body contains the text "Message: heheee". At the bottom, there are three buttons: "Trả lời" (Reply) with a left arrow icon, "Chuyển tiếp" (Forward) with a right arrow icon, and a smiley face icon.

- Login

First, we have to register an account.

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Full Name  
Trương Kháng Dỹ

Email  
truongdy38@gmail.com

Phone  
0865257858

Address  
HCM

Password  
... Show

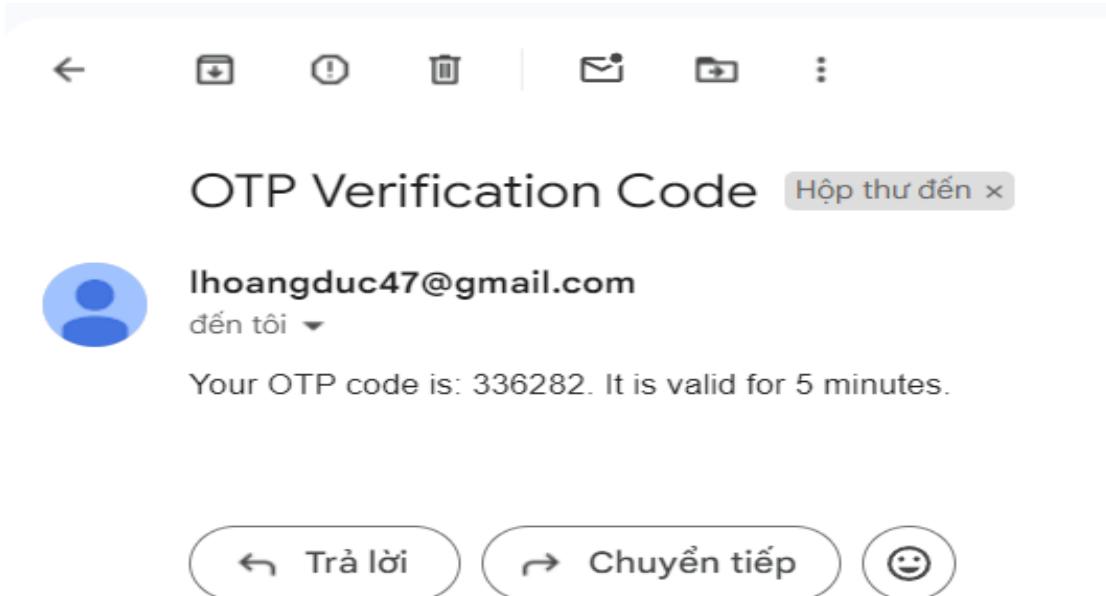
Confirm Password  
... Show

OTP  
Enter OTP received on email

Send OTP

Register

After entering the registration information, we will click "Send OTP.". After receiving the OTP, enter the OTP to register the account.



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After registering, we can log in.

A screenshot of a web browser showing a login form titled "User Login". The form has two input fields: "Email" containing "truongdy38@gmail.com" and "Password" with three dots (...). There is a "Show" link next to the password field. A yellow "Login" button is at the bottom. Below the form are links for "Forgot Password?" and "Already have an account? Register here". The URL in the address bar is "localhost:8080/user/login".

If we already have an account but forgot the password, we can click "Forgot Password" to reset it.

A screenshot of a web browser showing a "Forgot Password" form. It has a single input field labeled "Enter your email" with "Email" placeholder text. A yellow "Send OTP" button is at the bottom. The background shows some blurred text and icons.

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Enter the OTP received in the email.



lhoangduc47@gmail.com

đến tôi ▾

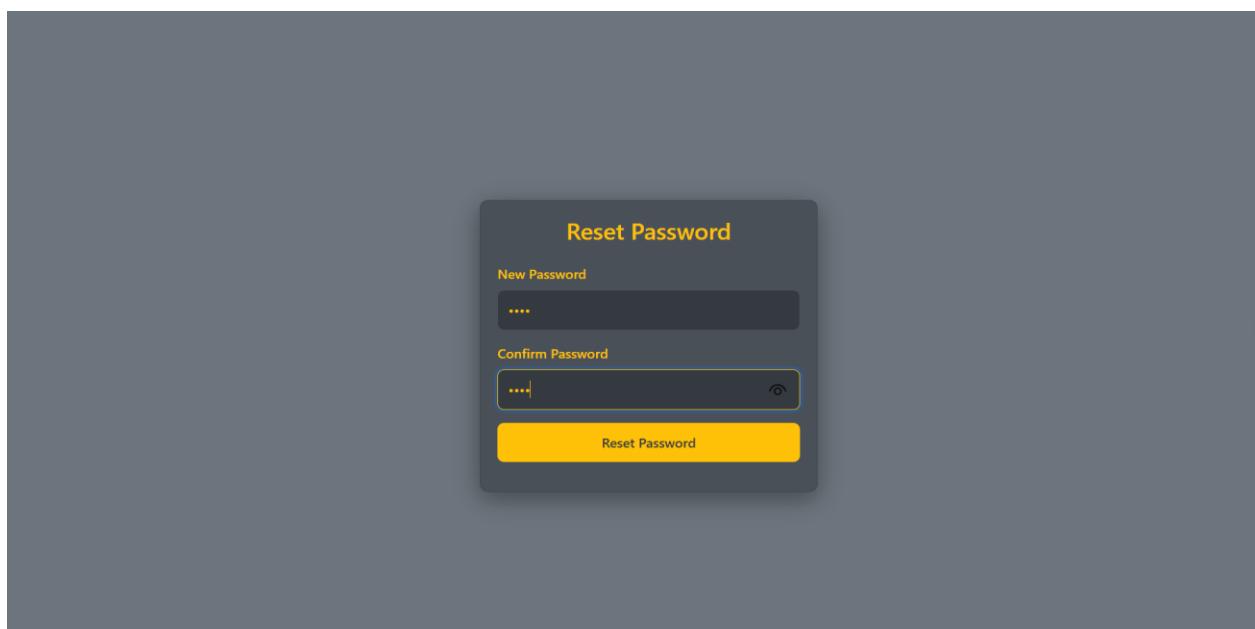
Your OTP code is: 237312. It is valid for 5 minutes.

← Trả lời

→ Chuyển tiếp



Reset the new password.



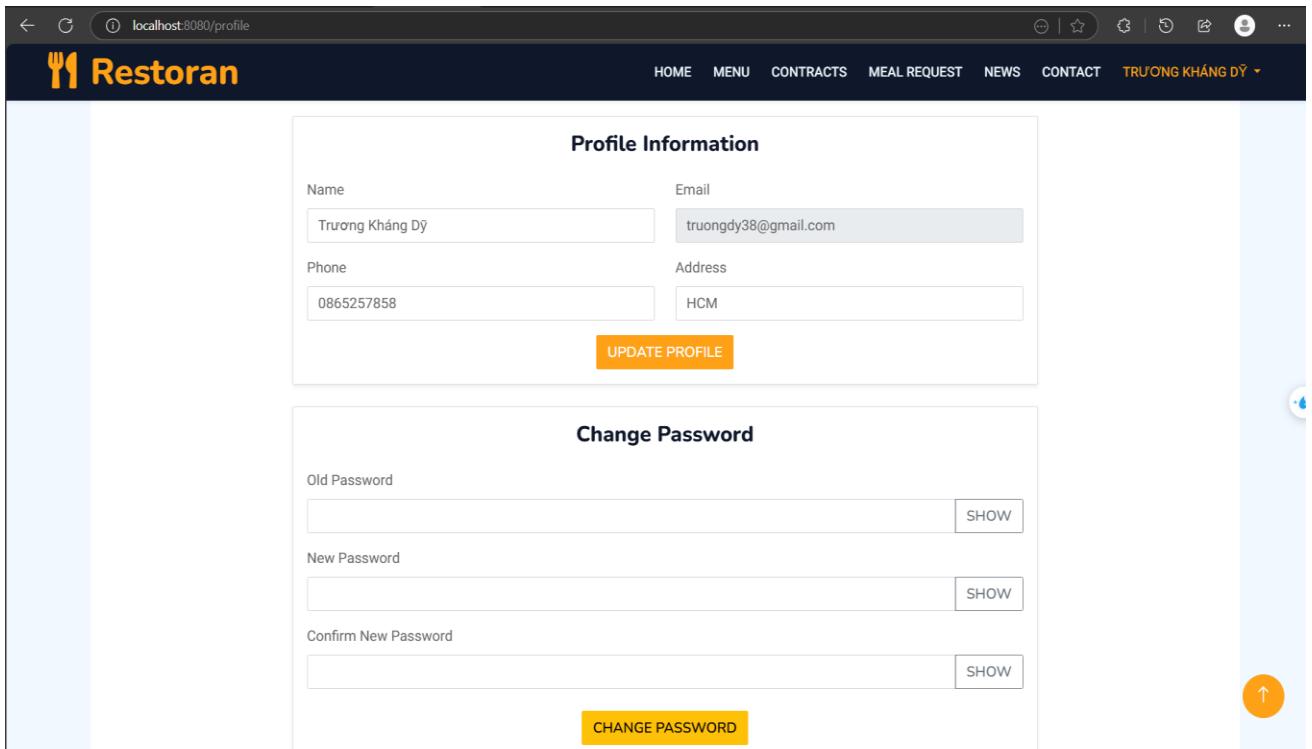
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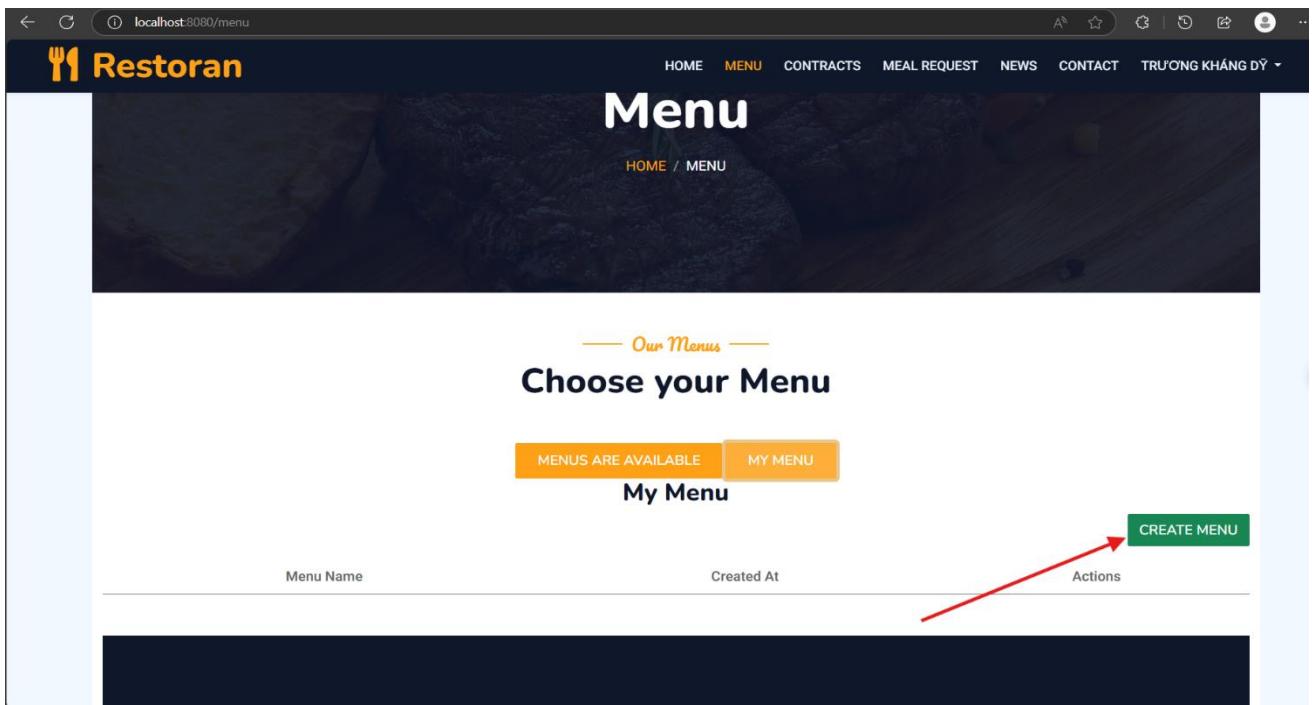
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We can change infor profile in profile



The screenshot shows a web browser window for 'localhost:8080/profile'. The header includes the Restoran logo and navigation links: HOME, MENU, CONTRACTS, MEAL REQUEST, NEWS, CONTACT, and TRƯỜNG KHÁNG DÝ. The main content area has two sections: 'Profile Information' and 'Change Password'. In 'Profile Information', fields for Name (Trương Kháng Dý), Email (truongdy38@gmail.com), Phone (0865257858), and Address (HCM) are shown, with an 'UPDATE PROFILE' button. In 'Change Password', fields for Old Password, New Password, and Confirm New Password are present, each with a 'SHOW' link, along with a 'CHANGE PASSWORD' button.

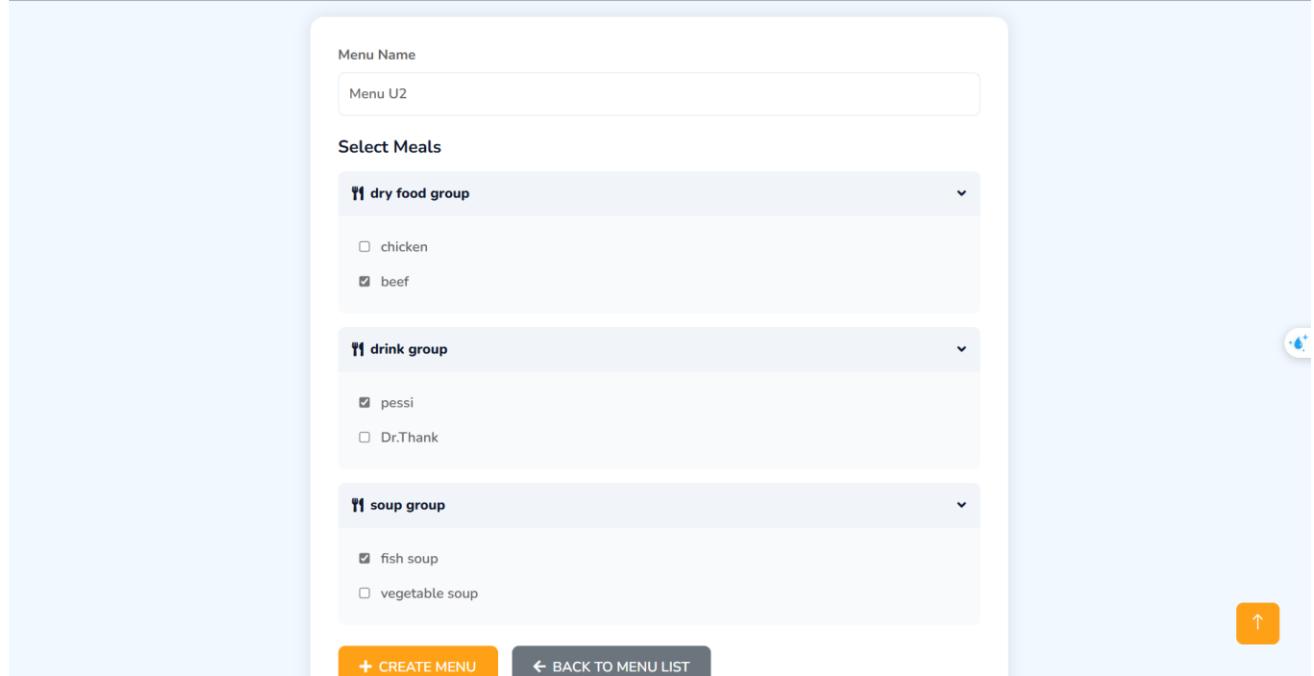
We can create a custom menu if we don't want to use the available menu.



The screenshot shows a web browser window for 'localhost:8080/menu'. The header includes the Restoran logo and navigation links: HOME, MENU, CONTRACTS, MEAL REQUEST, NEWS, CONTACT, and TRƯỜNG KHÁNG DÝ. The main content area features a large image of a dish, the word 'Menu' in large letters, and 'HOME / MENU'. Below this is a section titled 'Choose your Menu' with a 'My Menu' tab selected. A red arrow points from the 'CREATE MENU' button at the bottom right towards the 'Actions' column of a table where a new menu item is being created. The table columns are 'Menu Name', 'Created At', and 'Actions'.

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We can create a new menu named "Menu U2" with different dishes based on the available dishes in the food groups.



Menu Name  
Menu U2

Select Meals

dry food group

chicken  
 beef

drink group

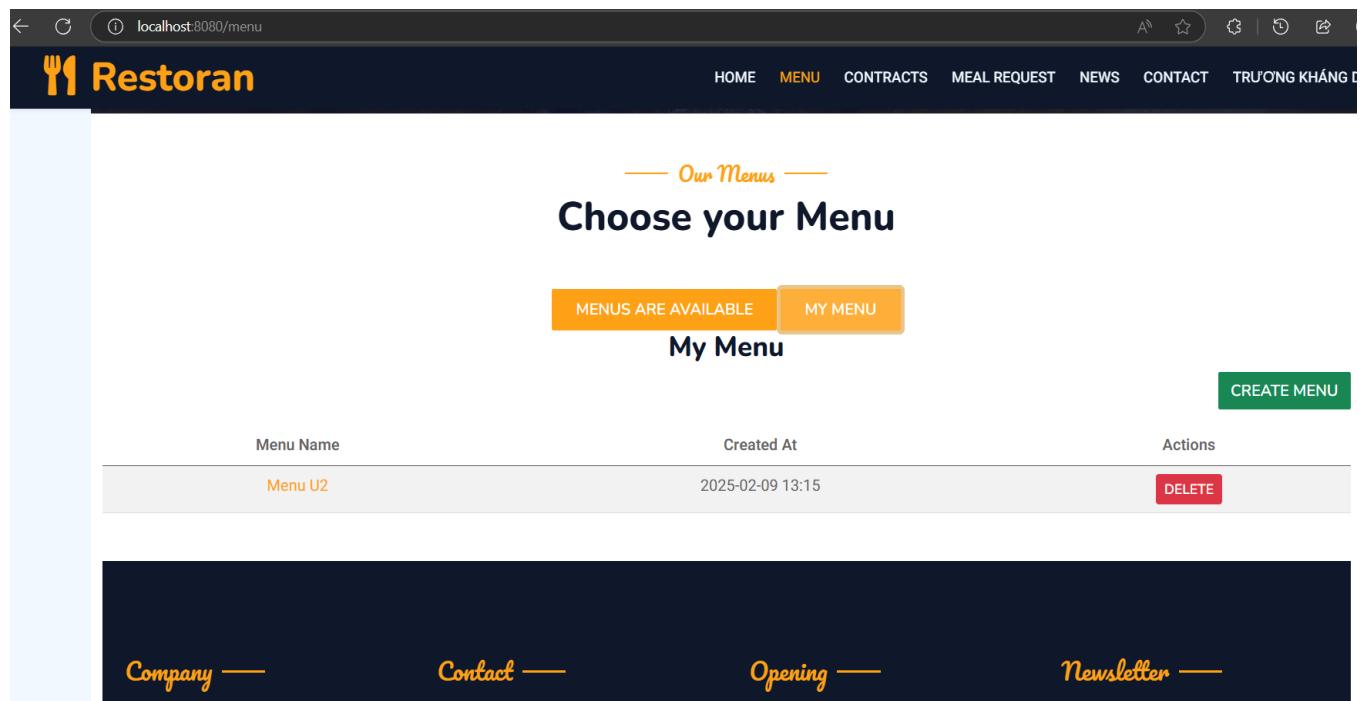
pessi  
 Dr.Thank

soup group

fish soup  
 vegetable soup

+ CREATE MENU    ← BACK TO MENU LIST

We can delete it.



localhost:3080/menu

HOME MENU CONTRACTS MEAL REQUEST NEWS CONTACT TRƯỜNG KHÁNG ĐIỀU HỘ

Our Menus

Choose your Menu

MENUS ARE AVAILABLE MY MENU

My Menu

CREATE MENU

Menu Name	Created At	Actions
Menu U2	2025-02-09 13:15	<a href="#">DELETE</a>

Company — Contact — Opening — Newsletter —

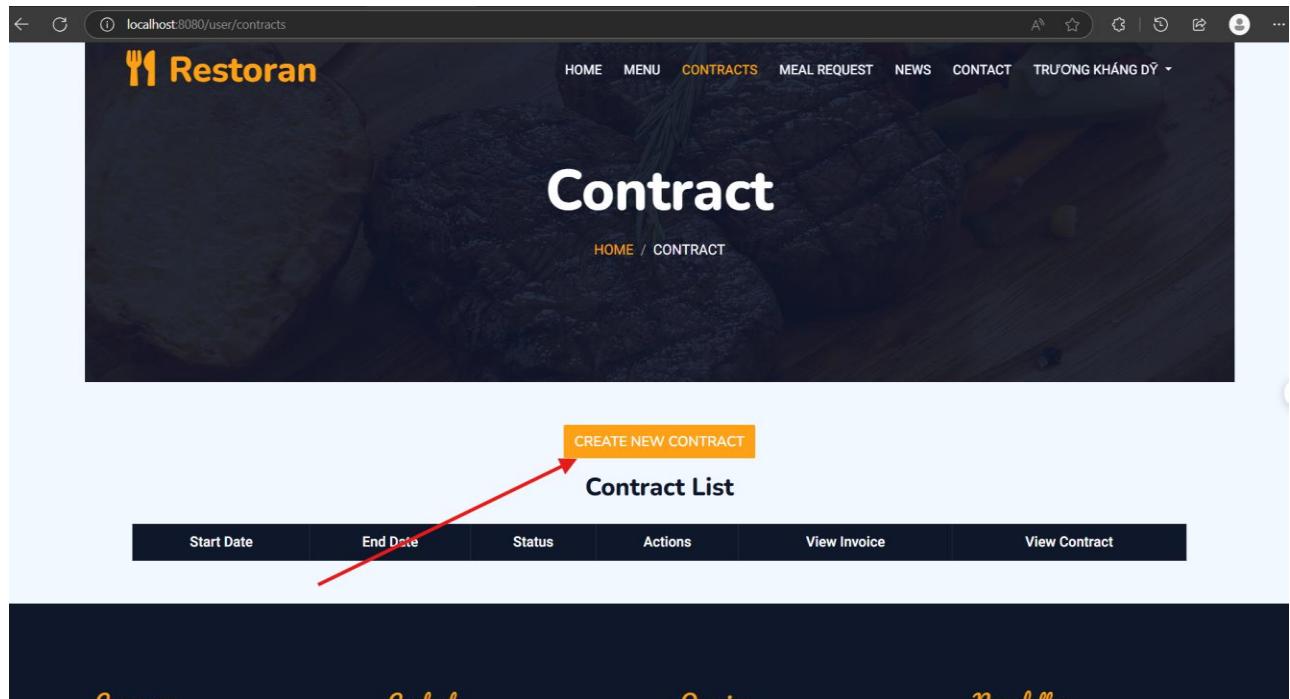
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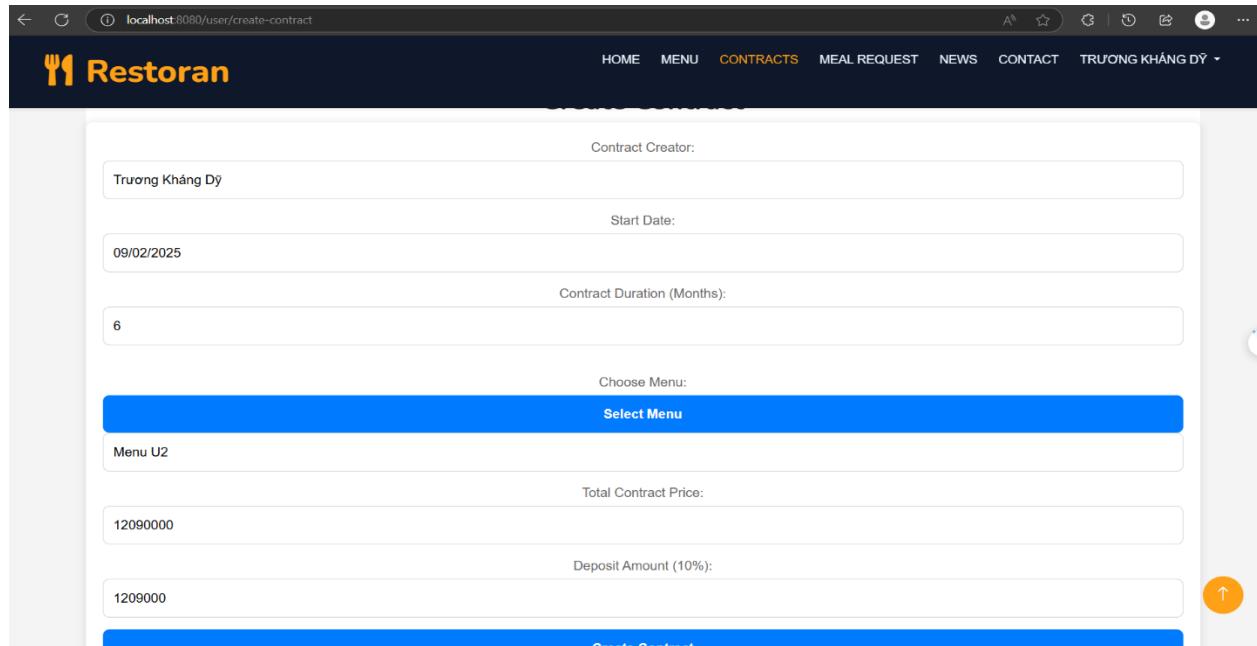
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## Create new contract



The screenshot shows the Restoran website's contract management interface. At the top, there is a navigation bar with links for HOME, MENU, CONTRACTS, MEAL REQUEST, NEWS, CONTACT, and TRƯỜNG KHÁNG DÝ. Below the navigation bar, the word "Contract" is prominently displayed. Underneath it, there is a breadcrumb navigation showing "HOME / CONTRACT". In the center, there is a "CREATE NEW CONTRACT" button with a red arrow pointing to it. Below this button, there is a "Contract List" section containing columns for Start Date, End Date, Status, Actions, View Invoice, and View Contract. At the bottom of the page, there is a footer with tabs for Company, Contact, Opening, and Newsletter.

Enter the contract duration, then select the newly created menu or an available menu. The total contract amount will be the menu price multiplied by the contract duration multiplied by 31, and the deposit amount will be 10% of the total contract amount.



The screenshot shows the "Create New Contract" form on the Restoran website. The form includes fields for Contract Creator (Trương Kháng Dý), Start Date (09/02/2025), Contract Duration (Months) (6), Choose Menu (highlighted in blue), Total Contract Price (12090000), and Deposit Amount (10%) (1209000). There is also a "Create Contract" button at the bottom right.

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After creating the contract, an email will be sent to the customer with a PDF file of the contract.

Chi tiết hợp đồng của bạn Hộp thư đến ×

 lhoangduc47@gmail.com  
đến tôi ▾

Vui lòng kiểm tra file đính kèm để xem chi tiết hợp đồng của bạn.

**Một tệp đính kèm • Gmail đã quét** ⓘ



https://mail.google.com/mail/u/3/#inbox/FMfcgzQZTClwgszHpzqXfsjqcjhtZdF?projector=1&messagePartId=0.1

**HỢP ĐỒNG DỊCH VỤ CÔNG NGHIỆP**

Căn cứ vào:  
 - Bộ luật Dân sự Việt Nam;  
 - Các quy định pháp lý liên quan đến hợp đồng dịch vụ.

Hôm nay, ngày 2025-02-09, tại Văn phòng Industrial Catering, chúng tôi gồm có:

Bên Cung Cấp Dịch Vụ (Bên A):  
 Tên: Industrial Catering  
 Email: admin@gmail.com

Bên Sử Dụng Dịch Vụ (Bên B):  
 Tên: Trương Khang Dỹ  
 Email: truongdy38@gmail.com

Điều 1: Phạm vi và mục đích dịch vụ  
 Bên A sẽ cung cấp dịch vụ công nghiệp theo các yêu cầu sau:  
 - Cung cấp các sản phẩm thực phẩm theo danh sách dưới đây.  
 - Đảm bảo chất lượng sản phẩm, tiến độ và các yêu cầu kỹ thuật được quy định trong hợp đồng.

Điều 2: Thời gian thực hiện dịch vụ  
 Thời gian bắt đầu dịch vụ: 2025-02-09  
 Thời gian kết thúc dịch vụ: 2025-08-09

Điều 3: Giá trị hợp đồng  
 - Tổng giá trị hợp đồng: 12090000.00 VND  
 - Số tiền đặt cọc: 1209000.00 VND  
 - Phương thức thanh toán: Chuyển khoản

### HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH



TP. HCM: 35/6 đường D5, Q. Bình Thạnh  
 778/10 Nguyễn Kiệm, Q. Phú Nhuận  
 Hà Nội: 54-56 Lê Thanh Nghị, Q. Hai Bà Trưng  
 285 Đại Cát, Q. Ba Đình

Tel: 1800 1779  
 Tel: 1800 282824

<https://mail.google.com/mail/u/3/#inbox/1MfcgZQZ1ClwgszHpzqXFsjqrjhtZdf?projector=1&messagePartId=0.1>

**contract\_5.pdf**

Mở bằng Google Tài liệu

**Điều 3: Giá trị hợp đồng**

- Tổng giá trị hợp đồng: 12090000.00 VND
- Số tiền đặt cọc: 1209000.000 VND
- Phương thức thanh toán: Chuyển khoản

**Điều 4: Các điều khoản thanh toán**

Phần còn lại của tổng số tiền sẽ được thanh toán trực tiếp tại văn phòng công ty Industrial Catering.

**Điều 5: Quyền và nghĩa vụ của các bên**

- Quyền và nghĩa vụ của Bên A:
  - + Cung cấp dịch vụ đúng chất lượng và tiến độ đã thỏa thuận.
  - + Đảm bảo bảo mật thông tin của Bên B.
- Quyền và nghĩa vụ của Bên B:
  - + Thanh toán đúng thời gian và số tiền đã thỏa thuận trong hợp đồng.
  - + Cung cấp thông tin đầy đủ và chính xác để Bên A thực hiện dịch vụ.

**Điều 6: Điều khoản bảo mật**

Bên A cam kết bảo mật tất cả các thông tin của Bên B trong suốt thời gian thực hiện hợp đồng và sau khi hợp đồng kết thúc.

**Điều 7: Giải quyết tranh chấp**

Mọi tranh chấp phát sinh trong quá trình thực hiện hợp đồng sẽ được giải quyết thông qua thương lượng. Nếu không thể thương lượng, Tòa án có thẩm quyền giải quyết.

<https://mail.google.com/mail/u/3/#inbox/1MfcgZQZ1ClwgszHpzqXFsjqrjhtZdf?projector=1&messagePartId=0.1>

Mọi tranh chấp phát sinh trong quá trình thực hiện hợp đồng sẽ được giải quyết thông qua thương lượng. Nếu không thể thương lượng, các bên có thể đưa ra Tòa án có thẩm quyền giải quyết.

**Điều 8: Các sản phẩm, dịch vụ được cung cấp theo hợp đồng này:**

Tên Menu	Giá (VND)
Menu U2	25000.00
Menu U2	30000.00
Menu U2	10000.00

**Điều 9: Ký kết hợp đồng**

Hợp đồng này có hiệu lực từ ngày ký và có giá trị bắt buộc đối với cả hai bên.

Bên A (Cung cấp dịch vụ):  
 Chữ ký: \_\_\_\_\_  
 Ngày ký: \_\_\_\_\_

Bên B (Sử dụng dịch vụ):  
 Chữ ký: \_\_\_\_\_  
 Ngày ký: \_\_\_\_\_

The PDF file will include the contract creation details, contract terms, and the payment location for the full contract amount, along with the contract signing.

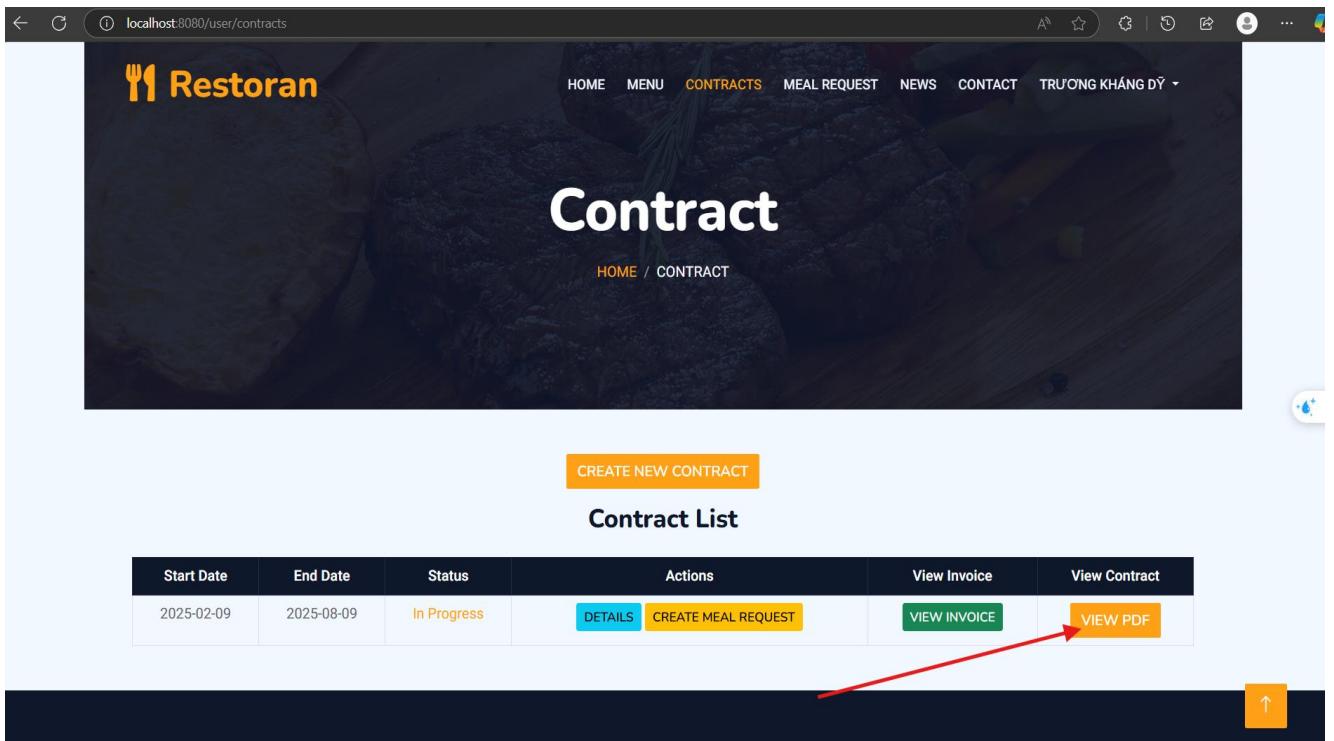
### HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH



TP. HCM: 35/6 đường D5, Q. Bình Thạnh  
 778/10 Nguyễn Kiệm, Q. Phú Nhuận  
 Hà Nội: 54-56 Lê Thanh Nghị, Q. Hai Bà Trưng  
 285 Đại Cân, Q. Ba Đình

Tel: 1800 1779  
 Tel: 1800 282824

We can view the PDF file on the web in the "View PDF" section. The contract status is currently pending admin approval.



localhost:8080/user/contracts

**Restoran**

HOME MENU CONTRACTS MEAL REQUEST NEWS CONTACT TRƯƠNG KHÁNG DỸ

# Contract

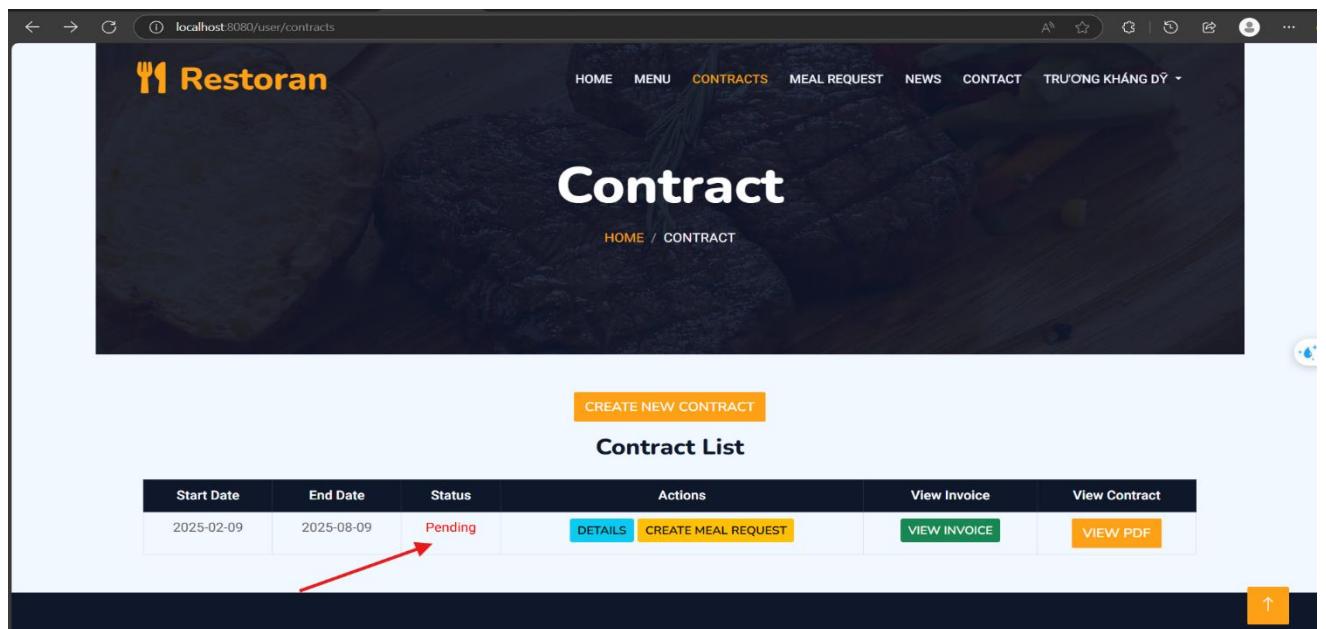
HOME / CONTRACT

CREATE NEW CONTRACT

### Contract List

Start Date	End Date	Status	Actions	View Invoice	View Contract
2025-02-09	2025-08-09	In Progress	DETAILS CREATE MEAL REQUEST	VIEW INVOICE	VIEW PDF

After the status changes to "Pending," click on "Detail."



localhost:8080/user/contracts

**Restoran**

HOME MENU CONTRACTS MEAL REQUEST NEWS CONTACT TRƯƠNG KHÁNG DỸ

# Contract

HOME / CONTRACT

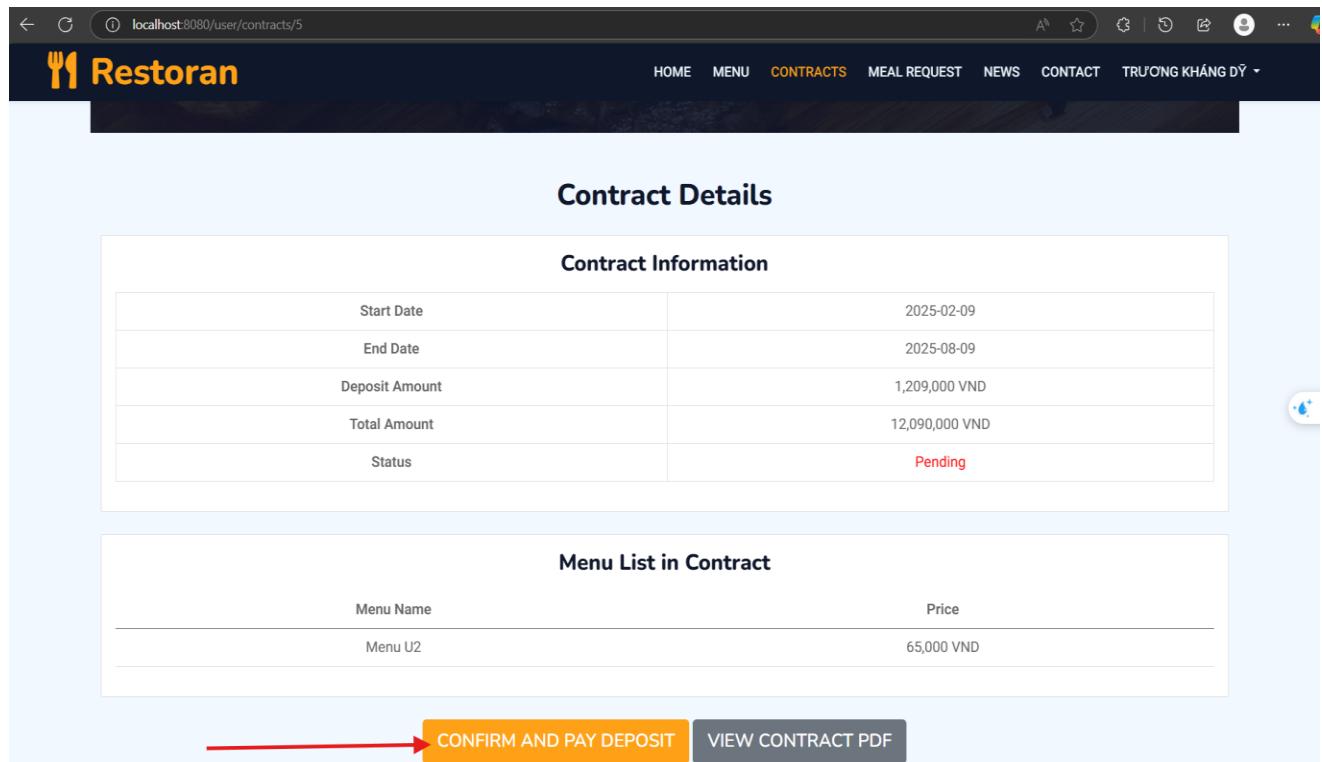
CREATE NEW CONTRACT

### Contract List

Start Date	End Date	Status	Actions	View Invoice	View Contract
2025-02-09	2025-08-09	Pending	DETAILS CREATE MEAL REQUEST	VIEW INVOICE	VIEW PDF

#### HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH

After the customer confirms, they will click the "Confirm and Pay" button.



**Contract Details**

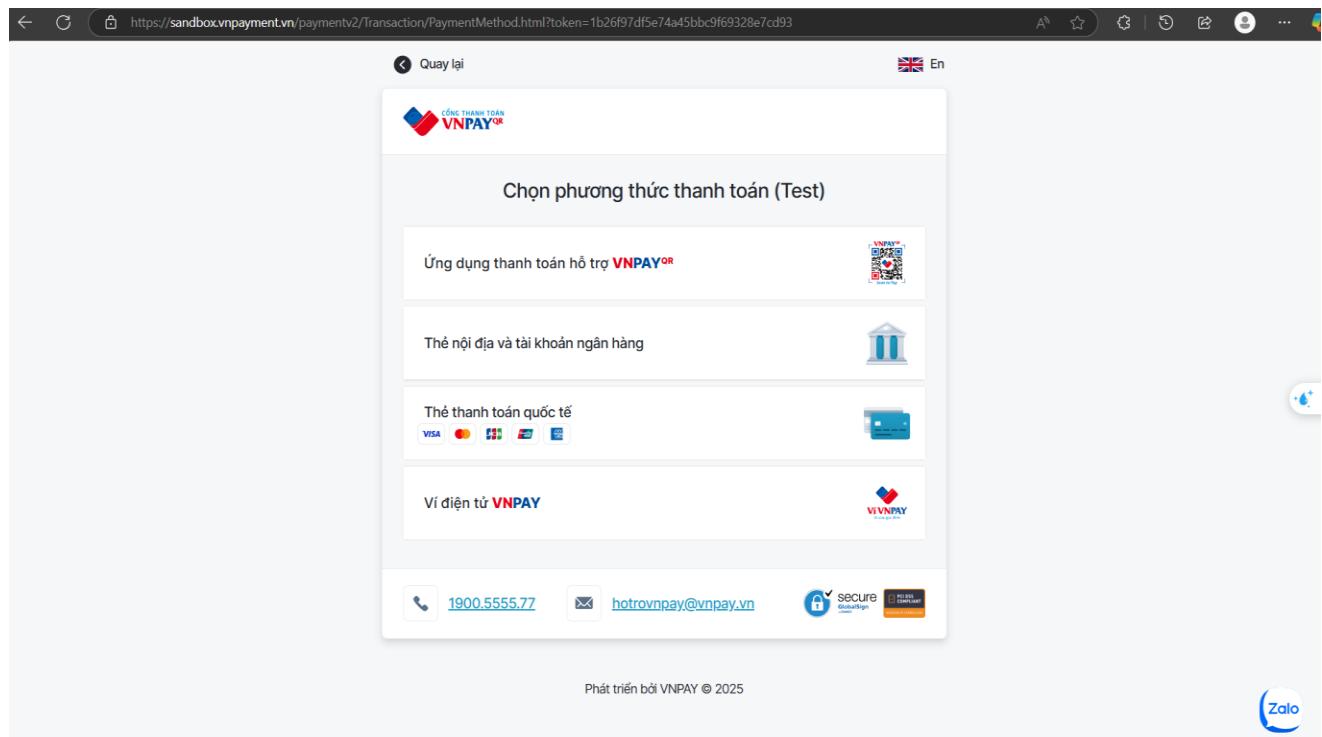
**Contract Information**

Start Date	2025-02-09
End Date	2025-08-09
Deposit Amount	1,209,000 VND
Total Amount	12,090,000 VND
Status	Pending

**Menu List in Contract**

Menu Name	Price
Menu U2	65,000 VND

**CONFIRM AND PAY DEPOSIT** **VIEW CONTRACT PDF**



Chọn phương thức thanh toán (Test)

- Ứng dụng thanh toán hỗ trợ VNPayQR
- Thẻ nội địa và tài khoản ngân hàng
- Thẻ thanh toán quốc tế
- Ví điện tử VNPay

1900.5555.77 | hotrovnpay@vnpay.vn | secure

Phát triển bởi VNPay © 2025

← ⏪ https://sandbox.vnpayment.vn/paymentv2/Ncb/Transaction/Index.html?token=1b26f97df5e74a45bbc9f69328e7cd93

Quay lại Giao dịch hết hạn sau 12 : 56

EN

**VNPAY**

Thông tin đơn hàng (Test)

Số tiền thanh toán  
**1.209.000VND**

Giá trị đơn hàng  
1.209.000VND

Phí giao dịch  
0VND

Mã đơn hàng  
75328899

Nhà cung cấp  
<https://vnshop.vn/>

Thanh toán qua Ngân hàng NCB

Thẻ nội địa

Số thẻ  
\*\*\*\*\*2198 

Tên chủ thẻ  
NGUYEN VAN A

Ngày phát hành  07/15

Mã khuyến mại  Chọn hoặc nhập mã

 Điều kiện sử dụng dịch vụ

Hủy thanh toán Tiếp tục

1900.5555.77 hotrovnpay@vnpay.vn

secure 

Zalo

← ⏪ https://sandbox.vnpayment.vn/paymentv2/Ncb/Transaction/Confirm.html

Giao dịch hết hạn sau 11 : 40

EN

**VNPAY**

Thông tin đơn hàng (Test)

Số tiền thanh toán  
**1.209.000VND**

Giá trị đơn hàng  
1.209.000VND

Phí giao dịch  
0VND

Mã đơn hàng  
75328899

Nhà cung cấp  
<https://vnshop.vn/>

Xác thực OTP

 123456 

OTP đã được gửi về số điện thoại đăng ký. Quý khách vui lòng nhập OTP để tiếp tục thực hiện giao dịch.

Hủy Tiếp tục

1900.5555.77 hotrovnpay@vnpay.vn

secure 

Zalo

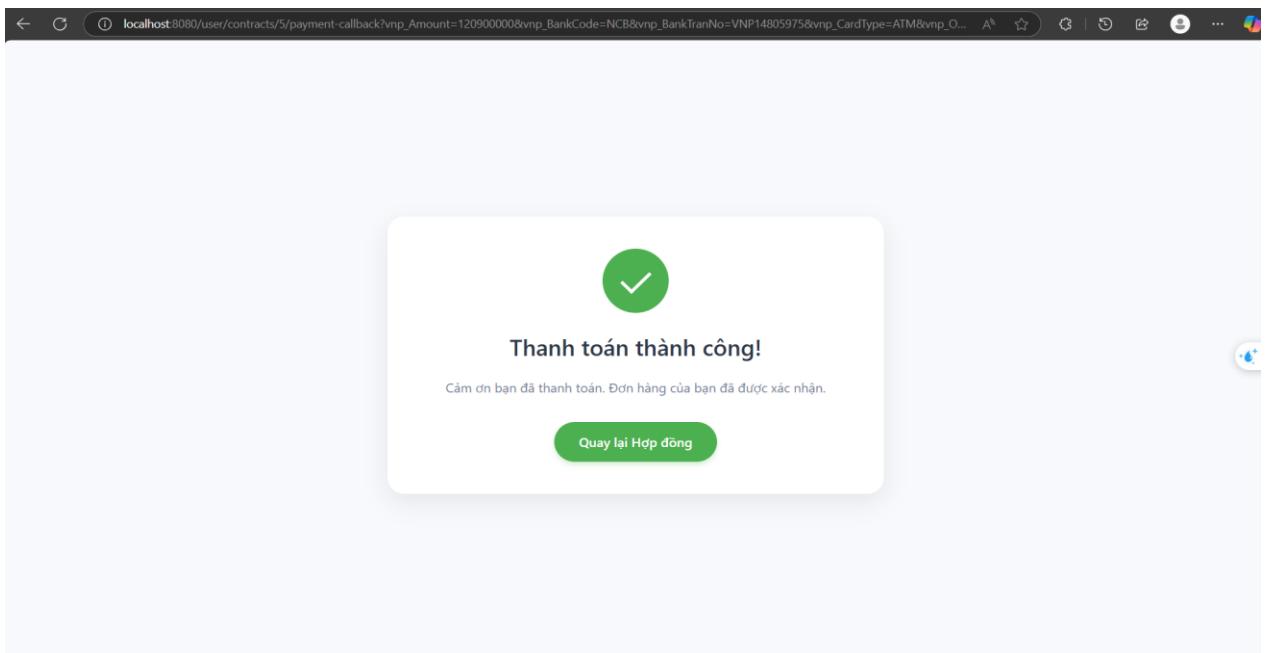
Phát triển bởi VNPAY © 2025

### HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH



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Hà Nội: 54-56 Lê Thanh Nghị, Q. Hai Bà Trưng  
285 Đại Cản, Q. Ba Đình

Tel: 1800 1779  
Tel: 1800 282824



After a successful payment, the contract status will change to "Confirmed." Payment history can be viewed by clicking the "View Payment History" button.

Contract Information	
Start Date	2025-02-09
End Date	2025-08-09
Deposit Amount	1,209,000 VND
Total Amount	12,090,000 VND
Status	Confirmed

Menu List in Contract	
Menu Name	Price
Menu U2	65,000 VND

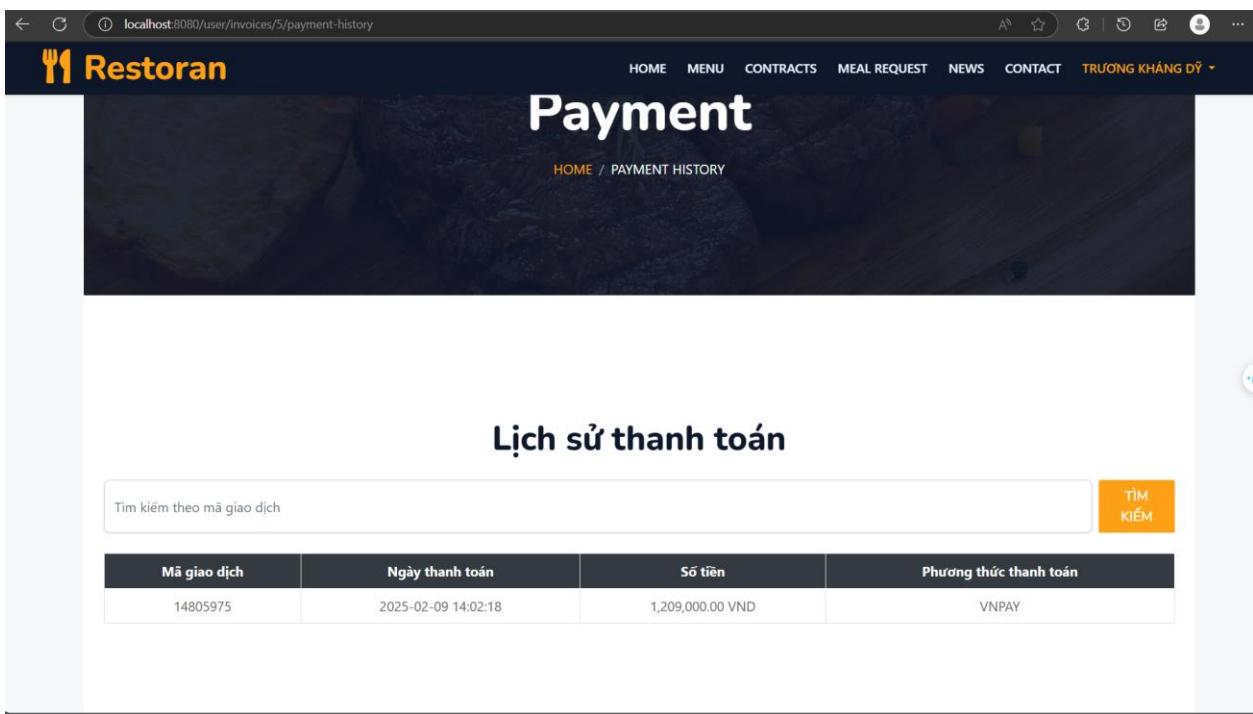
**VIEW PAYMENT HISTORY**    **VIEW CONTRACT PDF**

#### HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH



TP. HCM: 35/6 đường D5, Q. Bình Thạnh  
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Hà Nội: 54-56 Lê Thanh Nghị, Q. Hai Bà Trưng  
285 Đại Cân, Q. Ba Đình

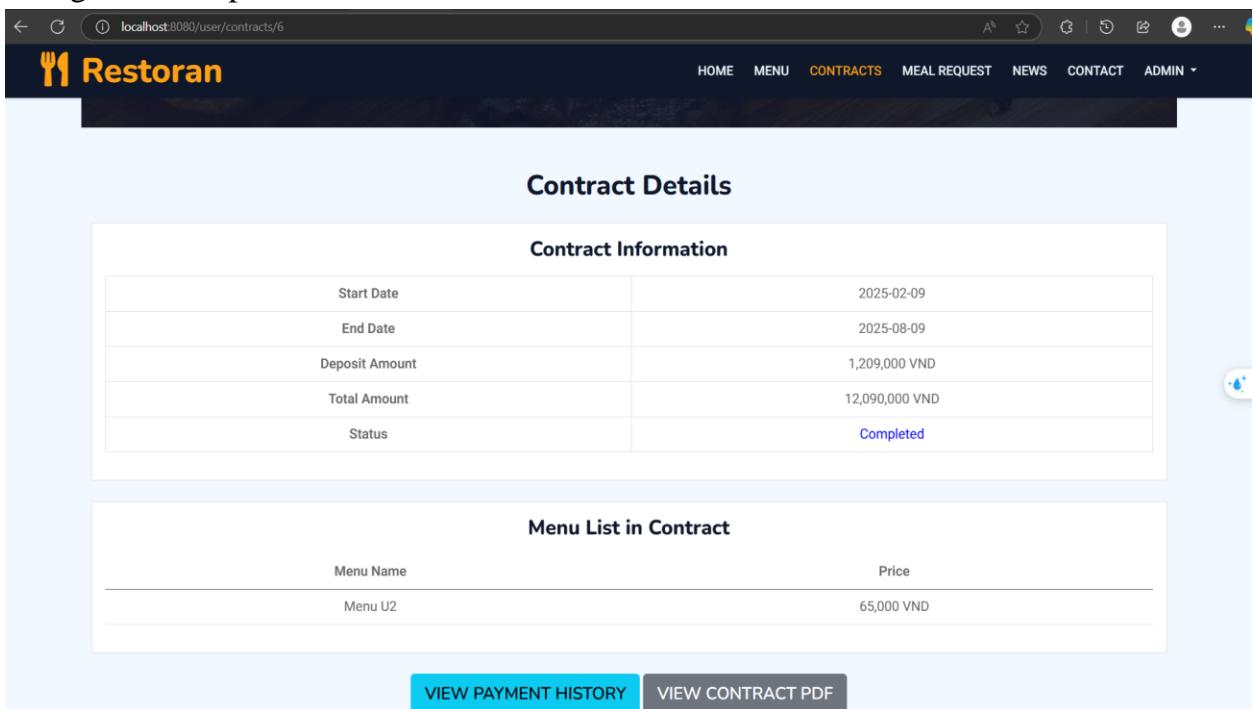
Tel: 1800 1779  
Tel: 1800 282824



The screenshot shows a payment history page for a user. At the top, there's a navigation bar with links for HOME, MENU, CONTRACTS, MEAL REQUEST, NEWS, CONTACT, and a dropdown for TRƯỜNG KHÁNG DÝ. Below the navigation is a banner with the word "Payment". Underneath the banner, the page title is "Lịch sử thanh toán". A search bar with placeholder text "Tim kiem theo mã giao dịch" and a "TÌM KIẾM" button are present. A table displays a single transaction record:

Mã giao dịch	Ngày thanh toán	Số tiền	Phương thức thanh toán
14805975	2025-02-09 14:02:18	1,209,000.00 VND	VNPAY

After the full remaining amount is paid, the admin will update the contract, and its status will change to "Completed."



The screenshot shows a contract details page. At the top, there's a navigation bar with links for HOME, MENU, CONTRACTS, MEAL REQUEST, NEWS, CONTACT, and ADMIN. Below the navigation is a banner with the word "Contract Details". A section titled "Contract Information" contains the following data:

Start Date	2025-02-09
End Date	2025-08-09
Deposit Amount	1,209,000 VND
Total Amount	12,090,000 VND
Status	Completed

Below this is a "Menu List in Contract" table:

Menu Name	Price
Menu U2	65,000 VND

At the bottom of the page are two buttons: "VIEW PAYMENT HISTORY" and "VIEW CONTRACT PDF".

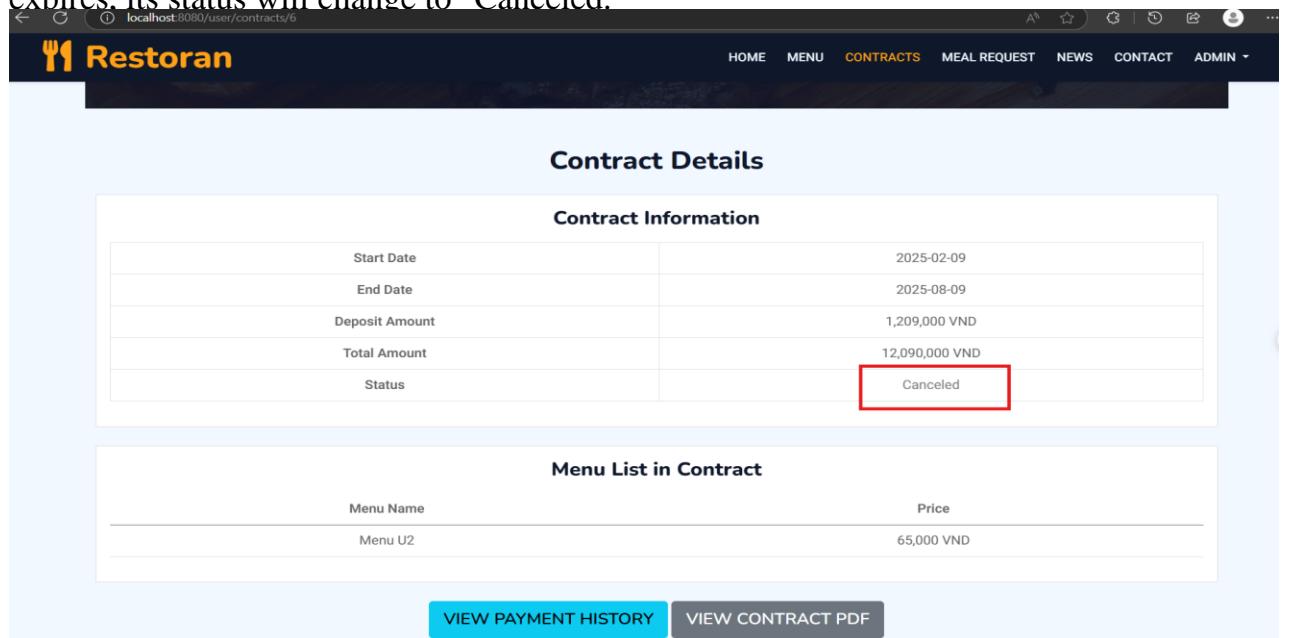
#### HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH



TP. HCM: 35/6 đường D5, Q. Bình Thạnh  
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285 Đại Cát, Q. Ba Đình

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Tel: 1800 282824

Each time the contract status is updated, an email notification will be sent to the customer. When the contract is about to expire, an expiration reminder email will be sent. Once the contract expires, its status will change to "Canceled."



The screenshot shows a software interface for managing contracts. In the 'Contract Details' section, there is a table with the following data:

Contract Information	
Start Date	2025-02-09
End Date	2025-08-09
Deposit Amount	1,209,000 VND
Total Amount	12,090,000 VND
Status	Canceled

In the 'Menu List in Contract' section, there is a table with the following data:

Menu Name	Price
Menu U2	65,000 VND

At the bottom, there are two buttons: 'VIEW PAYMENT HISTORY' and 'VIEW CONTRACT PDF'.



**lhoangduc47@gmail.com**

đến tôi ▾

Xin chào, hợp đồng của bạn có ID 5 đã được cập nhật.

Trạng thái hiện tại: Đã xác nhận

...



**lhoangduc47@gmail.com**

đến tôi ▾

Xin chào, hợp đồng của bạn có ID 5 đã được cập nhật.

Trạng thái hiện tại: Đã hoàn thành

...

Trạng thái thanh toán: Chưa Thanh Toán  
Vui lòng liên hệ nếu có bất kỳ câu hỏi nào.



**lhoangduc47@gmail.com**

đến tôi ▾

Xin chào, hợp đồng của bạn có ID 5 đã được cập nhật.

Trạng thái hiện tại: Đã hoàn thành

Trạng thái thanh toán: Đã Thanh Toán

...

### HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH



TP. HCM: 35/6 đường D5, Q. Bình Thạnh  
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Hà Nội: 54-56 Lê Thanh Nghị, Q. Hai Bà Trưng  
285 Đại Cân, Q. Ba Đình

Tel: 1800 1779  
Tel: 1800 282824



lhoangduc47@gmail.com

đến tôi ▾

...

14:42 (1 phút trước)



Kính chào, hợp đồng có ID 5 của bạn sẽ hết hạn vào 2024-12-07. Vui lòng gia hạn sớm để không gián đoạn dịch vụ.

Click on "Create Meal Request" to order a meal.



Select the date for the meal order and the quantity, then click "Submit."

localhost:8080/mealRequest/create?contractId=5

HOME MENU CONTRACTS MEAL REQUEST NEWS CONTACT TRƯƠNG KHÁNG DÝ

Delivery Date:

10/02/2025

Chọn menu:

Menu: Menu U2 Quantity:

50

SUBMIT REQUEST

BACK TO LIST

#### HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH



TP. HCM: 35/6 đường D5, Q. Bình Thạnh  
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Hà Nội: 54-56 Lê Thanh Nghị, Q. Hai Bà Trưng  
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Tel: 1800 1779  
Tel: 1800 282824

After submitting, the request will be sent for admin approval. Once the admin approves, the customer has successfully ordered the meal.

The screenshot shows a meal request entry in the system. The table has four columns: Request Date, Delivery Date, Total Meals, and Status. The 'Status' column contains a button labeled 'PENDING'. A red arrow points from the text above to this button. The URL in the browser is 'localhost:8080/mealRequest/list'.

Request Date	Delivery Date	Total Meals	Status
2025-02-09	2025-02-10	50	PENDING

The screenshot shows the same meal request entry after it has been approved. The 'Status' column now displays a green button labeled 'CONFIRMED'. The URL in the browser is 'localhost:8080/mealRequest/list'.

Request Date	Delivery Date	Total Meals	Status
2025-02-09	2025-02-10	50	CONFIRMED

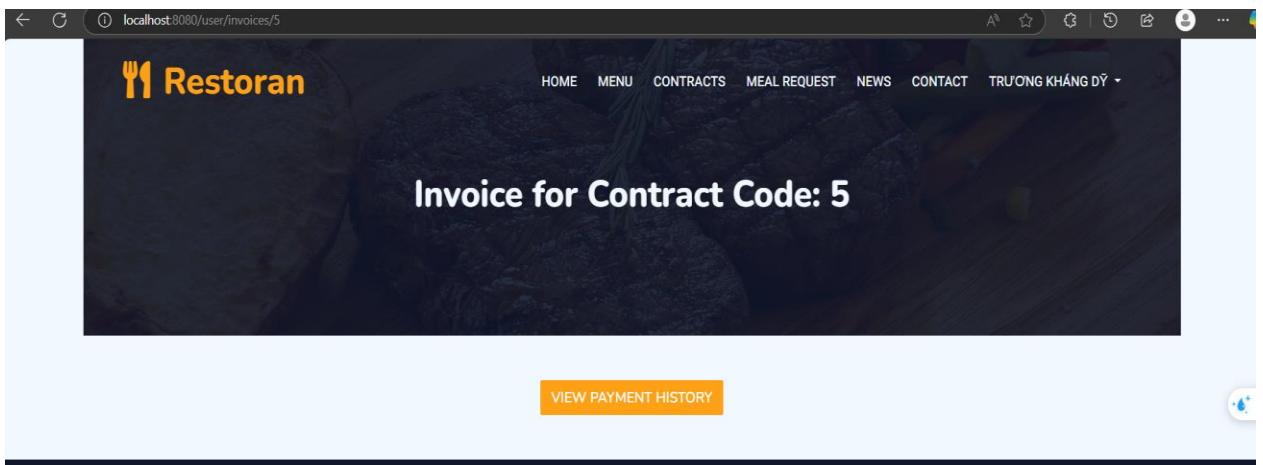
#### HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH



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Tel: 1800 1779  
Tel: 1800 282824

Every month, the admin will send an invoice for the meals ordered by the customer for payment. If the admin has not sent the invoice, it will not appear.



Payment can be made through a link in the email or directly on the website.

Thông báo hóa đơn thanh toán Hộp thư đến x

 lhoangduc47@gmail.com 14:59 (:  
đến tôi ▾

Kính chào quý khách,

Tổng số tiền cần thanh toán hóa đơn của bạn là 3250000.00 VND.

Chi tiết hóa đơn:  
#3: 3250000.00 VND, tạo ngày 2025-02-09T14:50:40.597, đến hạn ngày 2025-03-05T00:00, đường dẫn thanh toán: <http://localhost:8080/user/invoices/5>

Xin cảm ơn!

#### HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH



TP. HCM: 35/6 đường D5, Q. Bình Thạnh  
778/10 Nguyễn Kiệm, Q. Phú Nhuận  
Hà Nội: 54-56 Lê Thanh Nghị, Q. Hai Bà Trưng  
285 Đại Cát, Q. Ba Đình

Tel: 1800 1779  
Tel: 1800 282824

localhost:8080/user/invoices/5

# Restoran

- HOME MENU CONTRACTS MEAL REQUEST NEWS CONTACT TRƯƠNG KHÁNG DÝ

## Invoice for Contract Code: 5

**Year-Month: 2025-03**

Monthly Invoice: 2025-03 in debt 3250000.00đ

Invoice Code	Date Created	Due Date	Total Amount	Amount Paid	Payment Status	Details
3	2025-02-09 14:50:40	2025-03-05	3250000.00	0.00	Not yet paid	<a href="#">VIEW</a>

[PAYMENT](#)

[VIEW PAYMENT HISTORY](#)

Click on "View" to see the invoice details.

localhost:8080/user/invoices/detail/3

# Restoran

- HOME MENU CONTRACTS MEAL REQUEST NEWS CONTACT TRƯƠNG KHÁNG DÝ

## Invoice Details

### Invoice Summary

Total Amount	3250000.00
Paid Amount	0.00
Due Date	2025-03-05T00:00
Payment Status	Unpaid

### Meal Requests

Request Date	Delivery Date	Total Meals	Status	Details												
2025-02-09	2025-02-10	50	Confirmed	<table border="1"> <thead> <tr> <th>Menu Name</th> <th>Quantity</th> <th>Price</th> <th>Total Price</th> </tr> </thead> <tbody> <tr> <td>Menu U2</td> <td>50</td> <td>65000.00</td> <td>3250000.00</td> </tr> <tr> <td><b>Total</b></td> <td></td> <td></td> <td>3250000.00</td> </tr> </tbody> </table>	Menu Name	Quantity	Price	Total Price	Menu U2	50	65000.00	3250000.00	<b>Total</b>			3250000.00
Menu Name	Quantity	Price	Total Price													
Menu U2	50	65000.00	3250000.00													
<b>Total</b>			3250000.00													

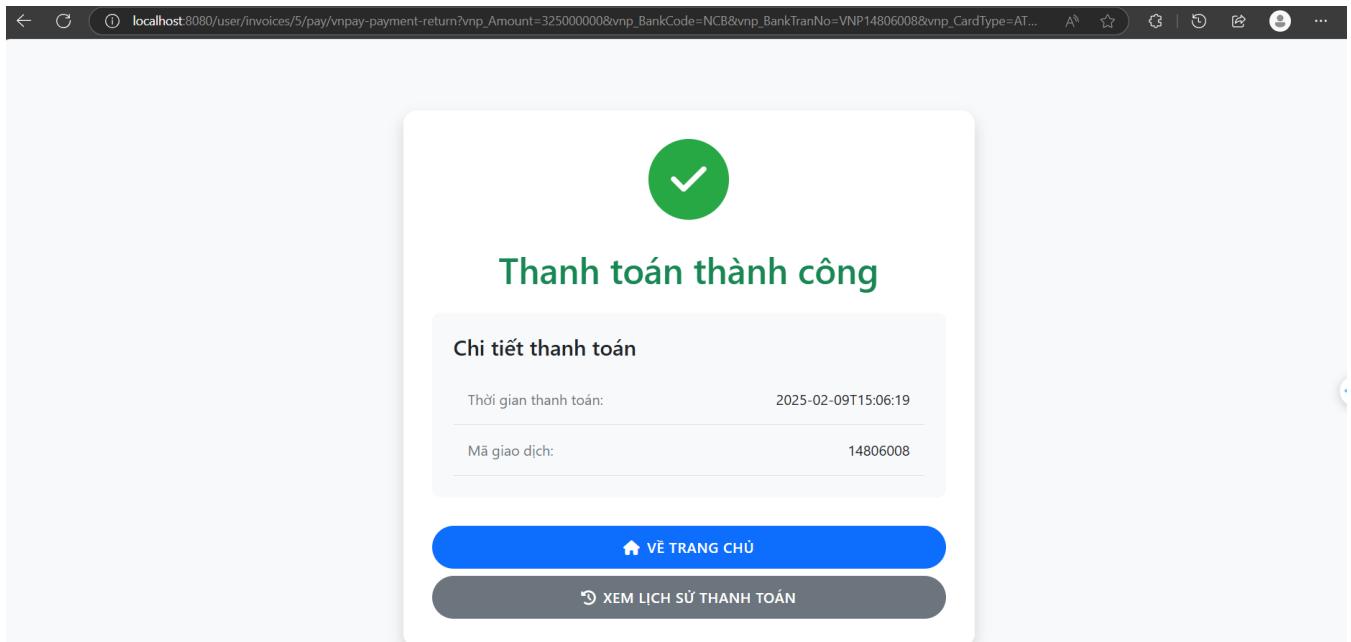
Click on the "Payment" button to make a payment. After a successful payment, the status will change to "Paid," and the customer will no longer be able to make a payment when clicking the "Payment" button.

#### HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH



TP. HCM: 35/6 đường D5, Q. Bình Thạnh  
778/10 Nguyễn Kiệm, Q. Phú Nhuận  
Hà Nội: 54-56 Lê Thanh Nghị, Q. Hai Bà Trưng  
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Tel: 1800 1779  
Tel: 1800 282824

A screenshot of a web application for managing invoices. The header includes a logo for "Restoran" and navigation links for HOME, MENU, CONTRACTS, MEAL REQUEST, NEWS, CONTACT, and TRƯỜNG KHÁNG DÝ. The main title is "Invoice for Contract Code: 5". Below this, a table lists an invoice entry for "Year-Month: 2025-03":

Invoice Code	Date Created	Due Date	Total Amount	Amount Paid	Payment Status	Details
3	2025-02-09 14:50:40	2025-03-05	3250000.00	3250000.00	Paid	<button>VIEW</button>

**PAYMENT**

**VIEW PAYMENT HISTORY**

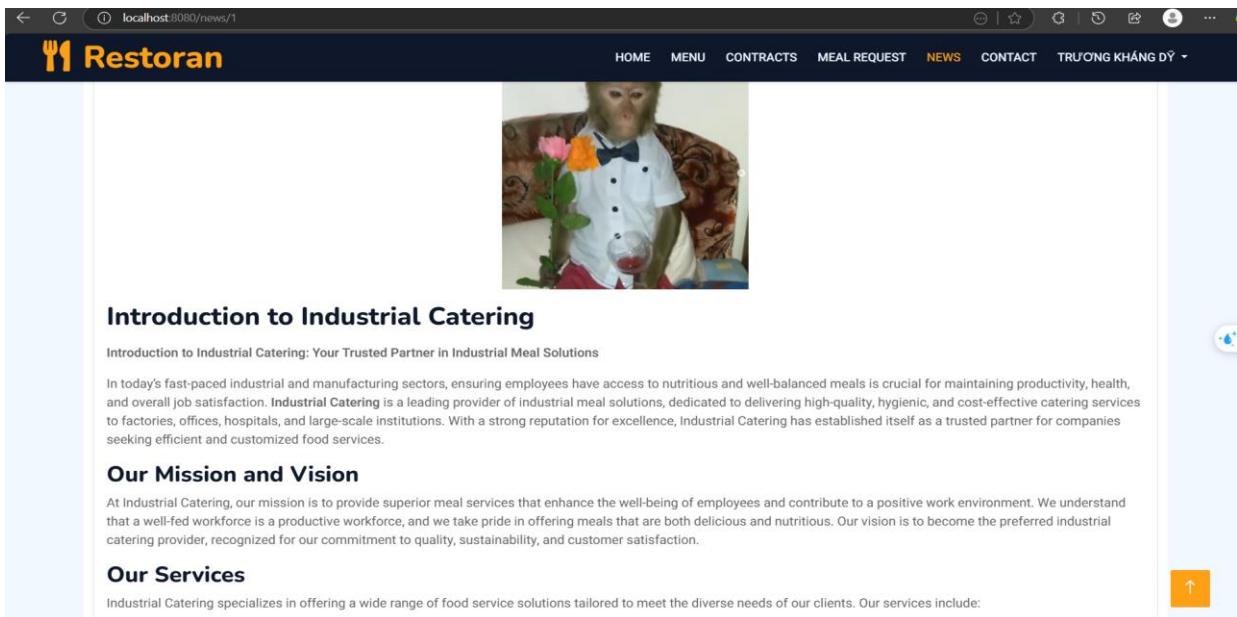
### HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH



TP. HCM: 35/6 đường D5, Q. Bình Thạnh  
778/10 Nguyễn Kiệm, Q. Phú Nhuận  
Hà Nội: 54-56 Lê Thanh Nghị, Q. Hai Bà Trưng  
285 Đại Cát, Q. Ba Đình

Tel: 1800 1779  
Tel: 1800 282824

In the "News" section, we can read articles, like, comment, and delete comments.



**Introduction to Industrial Catering**

Introduction to Industrial Catering: Your Trusted Partner in Industrial Meal Solutions

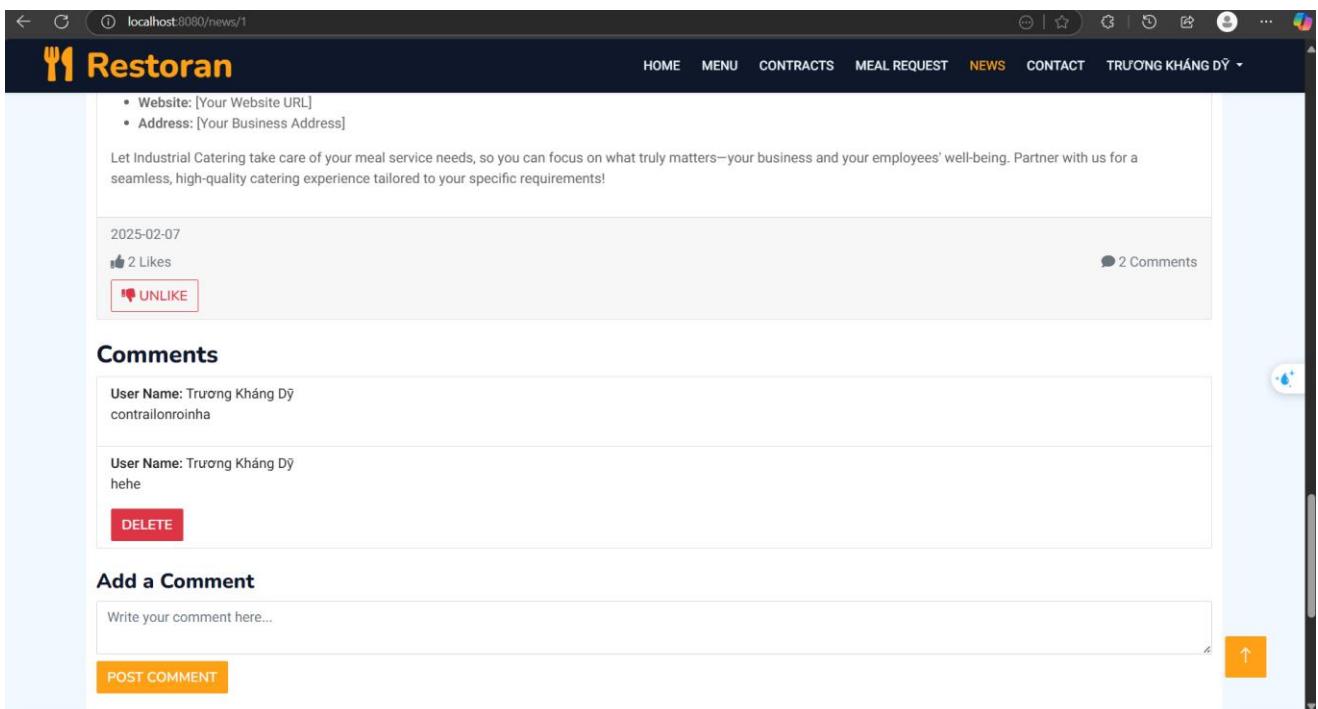
In today's fast-paced industrial and manufacturing sectors, ensuring employees have access to nutritious and well-balanced meals is crucial for maintaining productivity, health, and overall job satisfaction. Industrial Catering is a leading provider of industrial meal solutions, dedicated to delivering high-quality, hygienic, and cost-effective catering services to factories, offices, hospitals, and large-scale institutions. With a strong reputation for excellence, Industrial Catering has established itself as a trusted partner for companies seeking efficient and customized food services.

**Our Mission and Vision**

At Industrial Catering, our mission is to provide superior meal services that enhance the well-being of employees and contribute to a positive work environment. We understand that a well-fed workforce is a productive workforce, and we take pride in offering meals that are both delicious and nutritious. Our vision is to become the preferred industrial catering provider, recognized for our commitment to quality, sustainability, and customer satisfaction.

**Our Services**

Industrial Catering specializes in offering a wide range of food service solutions tailored to meet the diverse needs of our clients. Our services include:



• Website: [Your Website URL]  
 • Address: [Your Business Address]

Let Industrial Catering take care of your meal service needs, so you can focus on what truly matters—your business and your employees' well-being. Partner with us for a seamless, high-quality catering experience tailored to your specific requirements!

2025-02-07  
 2 Likes  
 UNLIKE

2 Comments

**Comments**

User Name: Truong Khang Duy  
 contrailonoinha

User Name: Truong Khang Duy  
 hehe

DELETE

**Add a Comment**

Write your comment here...

POST COMMENT

#### 4. Run Web Application (Web Admin):

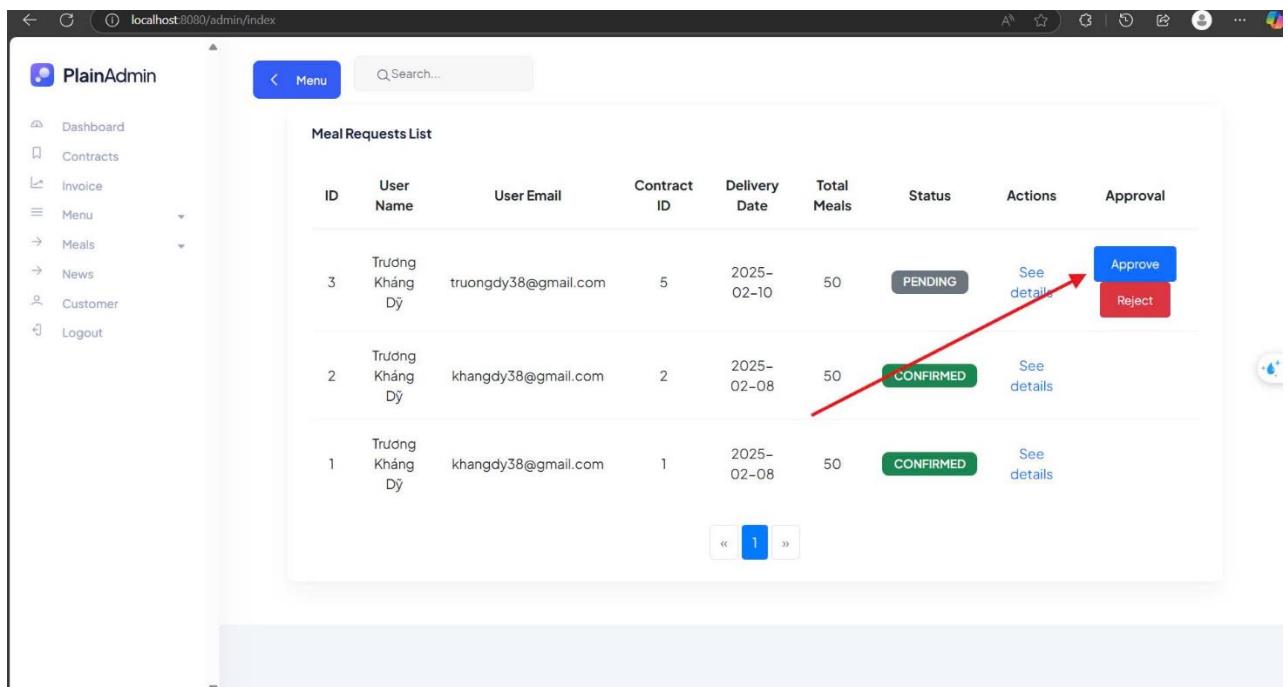
##### HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH



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 Hà Nội: 54-56 Lê Thanh Nghị, Q. Hai Bà Trưng  
 285 Đại Cân, Q. Ba Đình

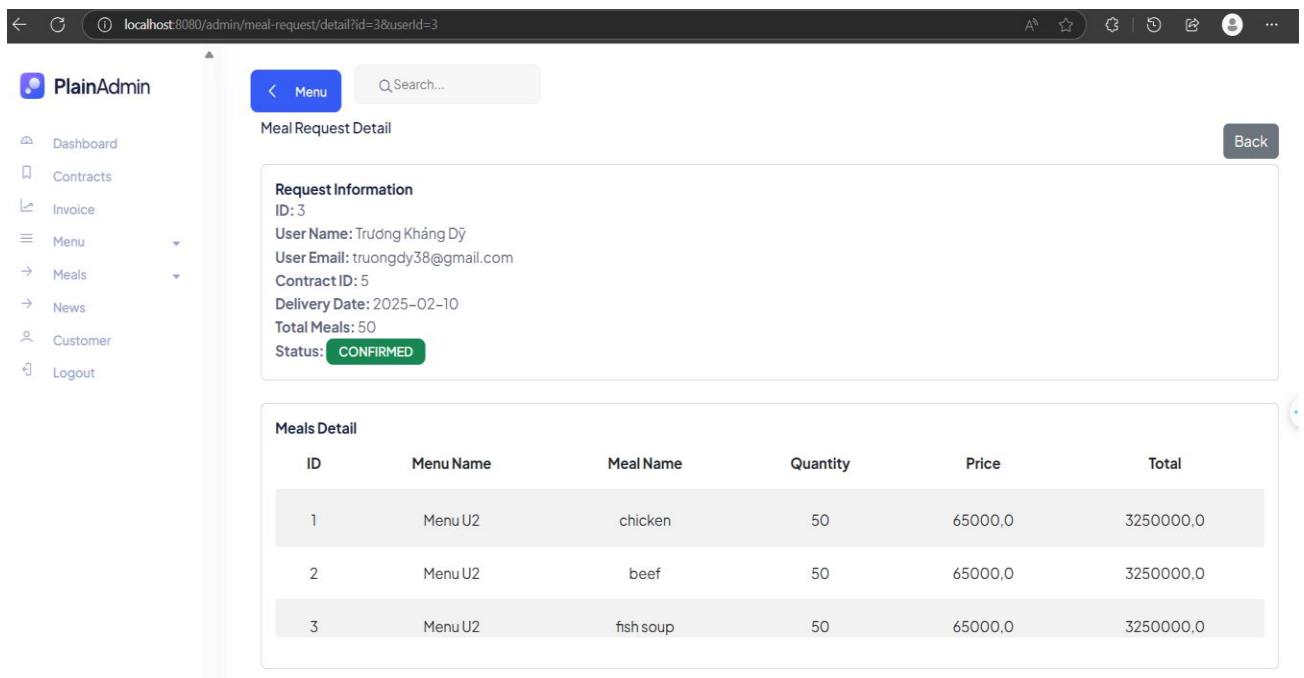
Tel: 1800 1779  
 Tel: 1800 282824

In the dashboard, the admin can approve or reject the user's meal request.



ID	User Name	User Email	Contract ID	Delivery Date	Total Meals	Status	Actions	Approval
3	Trương Kháng Dỹ	truongdy38@gmail.com	5	2025-02-10	50	PENDING	<a href="#">See details</a>	<a href="#">Approve</a> <a href="#">Reject</a>
2	Trương Kháng Dỹ	khangdy38@gmail.com	2	2025-02-08	50	CONFIRMED	<a href="#">See details</a>	
1	Trương Kháng Dỹ	khangdy38@gmail.com	1	2025-02-08	50	CONFIRMED	<a href="#">See details</a>	

Details of the meal request.



ID	Menu Name	Meal Name	Quantity	Price	Total
1	Menu U2	chicken	50	65000,0	3250000,0
2	Menu U2	beef	50	65000,0	3250000,0
3	Menu U2	fish soup	50	65000,0	3250000,0

In the "Contract" section, the admin can approve and update the customer's contract status.

#### HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH



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Tel: 1800 1779  
Tel: 1800 282824

PlainAdmin

localhost:8080/admin/contracts

Contract List

ID	User Name	Start Date	End Date	Total Amount	Deposit	Payment Status	Contract Status	Actions
5	Trương Kháng Dỹ	2025-02-09	2025-08-09	12090000.00	1209000.00	UNPAID	IN PROGRESS	...
4	Trương Kháng Dỹ	2025-02-08	2025-08-08	12090000.00	1209000.00	UNPAID	IN PROGRESS	...
3	Trương Kháng Dỹ	2025-02-07	2025-08-07	12090000.00	1209000.00	PAID	CONFIRMED	...
2	Trương Kháng Dỹ	2025-02-07	2024-12-07	12090000.00	1209000.00	UNPAID	COMPLETED	... SEND MAIL
1	Trương Kháng Dỹ	2025-02-06	2025-08-06	12090000.00	1209000.00	UNPAID	COMPLETED	...

« 1 »

PlainAdmin

localhost:8080/admin/contracts

Edit Contract

Back

User ID	Start Date
<input type="text" value="3"/>	<input type="text" value="09/02/2025"/>
End Date	Total Amount
<input type="text" value="09/08/2025"/>	<input type="text" value="1209000.00"/>
Deposit Amount	
<input type="text" value="1209000.00"/>	
Payment Status	Status
<input type="text" value="Unpaid"/>	<input type="text" value="In Progress"/>
<a href="#">Set to Pending</a>	
Cập nhật file hợp đồng (PDF)	
<input type="button" value="Chọn tệp"/> Không tệp nào được chọn <small>Nếu upload file mới, file cũ sẽ bị ghi đè</small>	

### HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH



TP. HCM: 35/6 đường D5, Q. Bình Thạnh  
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Tel: 1800 1779  
Tel: 1800 282824

5	Trương Kháng Dỹ	2025- 02-09	2025- 08-09	12090000.00	<span>PAID</span>	<span>CONFIRMED</span>	...
4	Trương Kháng Dỹ	2025- 02-08	2025- 08-08	12090000.00	12090000.00	<span>UNPAID</span>	<span>IN PROGRESS</span>
3	Trương Kháng Dỹ	2025- 02-07	2025- 08-07	12090000.00	1209000.00	<span>PAID</span>	<span>CONFIRMED</span>
2	Trương Kháng Dỹ	2025- 02-07	2024- 12-07	12090000.00	1209000.00	<span>UNPAID</span>	<span>COMPLETED</span>
1	Trương Kháng Dỹ	2025- 02-06	2025- 08-06	12090000.00	1209000.00	<span>UNPAID</span>	<span>COMPLETED</span>

« 1 »

< Menu
Q Search...

Edit Contract

Back

User ID

Start Date

End Date

Total Amount

Deposit Amount

Payment Status

Paid

Status

Confirmed

Set to Completed

Cập nhật file hợp đồng (PDF)

Chọn tệp
Không tệp nào được chọn

Nếu upload file mới, file cũ sẽ bị ghi đè

Update Contract
Cancel

### HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH



TP. HCM: 35/6 đường D5, Q. Bình Thạnh  
 778/10 Nguyễn Kiệm, Q. Phú Nhuận  
 Hà Nội: 54-56 Lê Thanh Nghị, Q. Hai Bà Trưng  
 285 Đại Cân, Q. Ba Đình

Tel: 1800 1779  
 Tel: 1800 282824

User ID: 3      Start Date: 09/02/2025

End Date: 09/08/2025      Total Amount: 12090000,00

Deposit Amount:

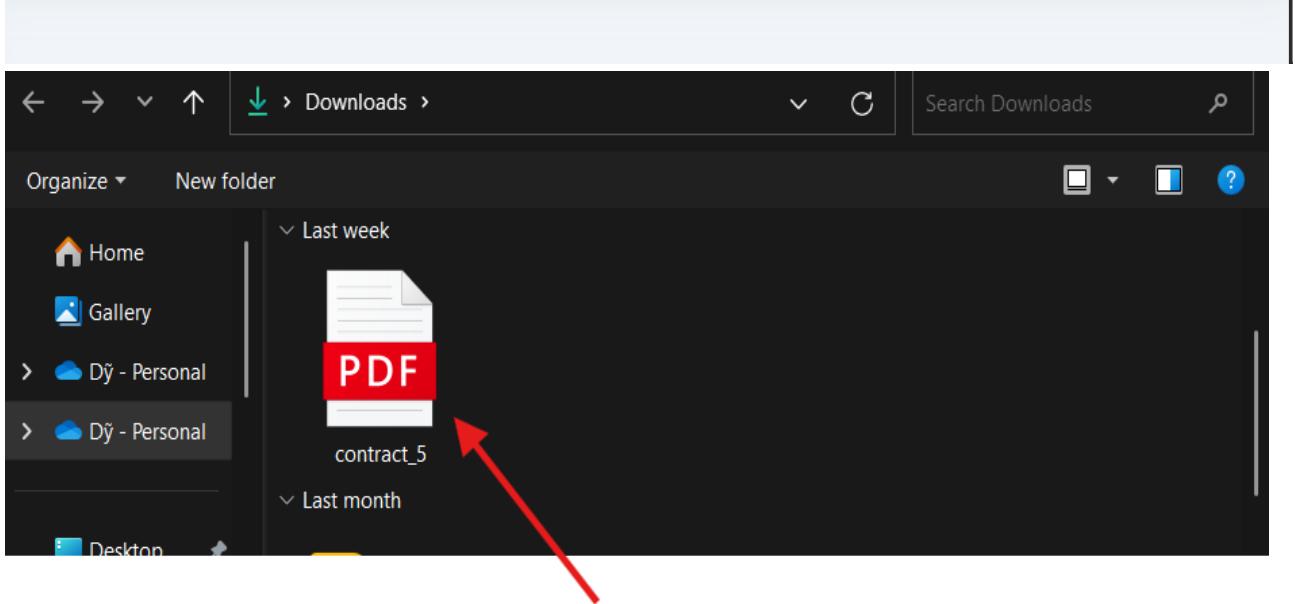
Payment Status: Paid      Status: Completed

**Cập nhật file hợp đồng (PDF)**

Chọn tệp      Không tệp nào được chọn

Nếu upload file mới, file cũ sẽ bị ghi đè

Update Contract      Cancel



#### HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH



TP. HCM: 35/6 đường D5, Q. Bình Thạnh  
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Hà Nội: 54-56 Lê Thanh Nghị, Q. Hai Bà Trưng  
285 Đại Cân, Q. Ba Đình

Tel: 1800 1779  
Tel: 1800 282824

User ID	Start Date
3	09/02/2025
End Date	Total Amount
09/08/2025	12090000,00
Deposit Amount	
Payment Status	Status
Paid	Completed
<a href="#">Set to Canceled</a>	
<b>Cập nhật file hợp đồng (PDF)</b> <input type="button" value="Chọn tệp"/> contract_5.pdf <small>Nếu upload file mới, file cũ sẽ bị ghi đè</small>	
<a href="#">Update Contract</a> <a href="#">Cancel</a>	

In the "Invoices" section, the admin can filter invoices by year, month, and unpaid invoices. The admin can also send email notifications to all users with unpaid invoices.

localhost:8080/admin/invoices/year=8/month=

**PlainAdmin**

**List of invoices**

Year	Month	Status	Filter
Ex: 2023	All	<input type="checkbox"/> Not yet paid	<a href="#">Send Notification to All</a>

User ID: 2  
Total debt: 0

Invoice Code	Contract Code	Date Created	Due Date	Total Amount	Amount Paid	Status
1	1	2025-02-07 03:30:34	2025-03-05	3.250.000,00 VND	3.250.000,00 VND	<span>Paid</span>
2	2	2025-02-07 15:56:14	2025-03-05	3.250.000,00 VND	3.250.000,00 VND	<span>Paid</span>

User ID: 3  
Total debt: 3250000.00

Invoice Code	Contract Code	Date Created	Due Date	Total Amount	Amount Paid	Status
3	5	2025-02-09 14:50:40	2025-03-05	3.250.000,00 VND	0,00 VND	<span>Not yet paid</span>

### HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH



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Hà Nội: 54-56 Lê Thanh Nghị, Q. Hai Bà Trưng  
285 Đại Cân, Q. Ba Đình

Tel: 1800 1779  
Tel: 1800 282824

localhost:8080/admin/invoices?year=8&month=

## List of invoices

PlainAdmin

- Dashboard
- Contracts
- Invoice
- Menu
- Meals
- News
- Customer
- Logout

Year: Ex: 2023 Month: All Status: Not yet paid Filter

User ID: 2 Total debt: 0

Invoice Code	Contract Code	Date Created	Due Date	Total Amount	Amount Paid	Status
1	1	2025-02-07 03:30:34	2025-03-05	3.250.000,00 VND	3.250.000,00 VND	Paid
2	2	2025-02-07 15:56:14	2025-03-05	3.250.000,00 VND	3.250.000,00 VND	Paid

User ID: 3 Total debt: 3250000.00

Invoice Code	Contract Code	Date Created	Due Date	Total Amount	Amount Paid	Status
3	5	2025-02-09 14:50:40	2025-03-05	3.250.000,00 VND	0,00 VND	Not yet paid

[Send Notification to All](#)

localhost:8080/admin/invoices?year=8&month=

## List of invoices

PlainAdmin

- Dashboard
- Contracts
- Invoice
- Menu
- Meals
- News
- Customer
- Logout

Menu Search... Year: Ex: 2023 Month: All Status: Not yet paid Filter

Dã gửi thông báo cho tất cả người dùng có hóa đơn chưa thanh toán.

User ID: 2 Total debt: 0

Invoice Code	Contract Code	Date Created	Due Date	Total Amount	Amount Paid	Status
1	1	2025-02-07 03:30:34	2025-03-05	3.250.000,00 VND	3.250.000,00 VND	Paid
2	2	2025-02-07 15:56:14	2025-03-05	3.250.000,00 VND	3.250.000,00 VND	Paid

User ID: 3 Total debt: 3250000.00

[Send Notification to All](#)

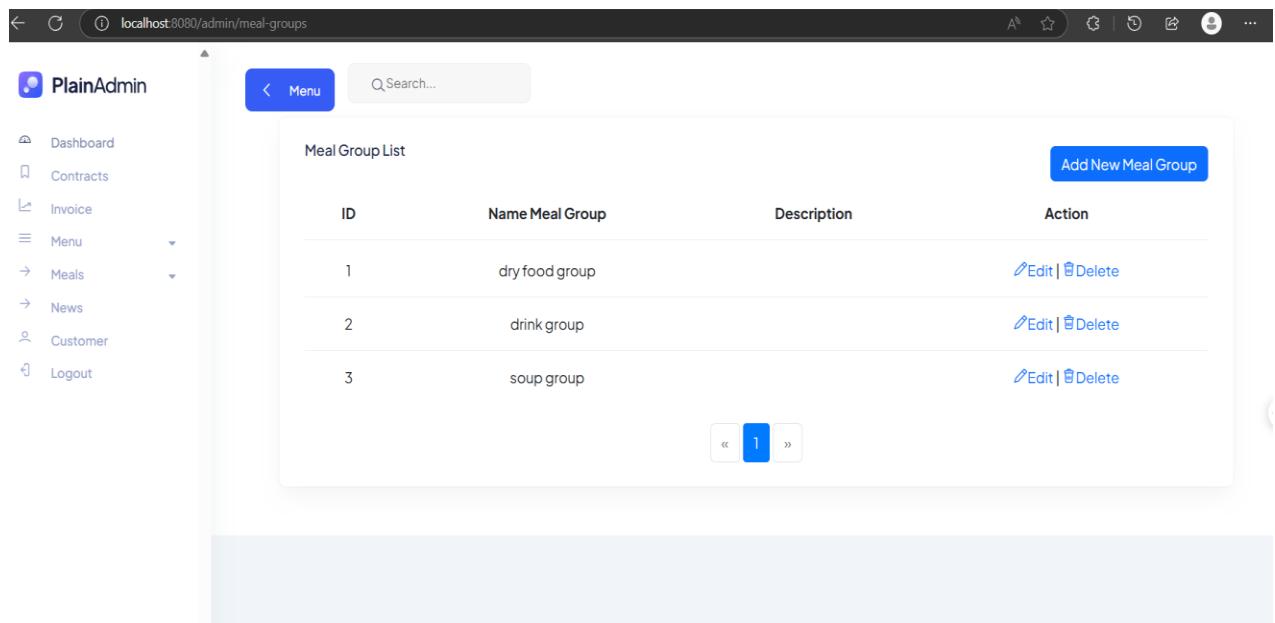
### HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH



TP. HCM: 35/6 đường D5, Q. Bình Thạnh  
 778/10 Nguyễn Kiệm, Q. Phú Nhuận  
 Hà Nội: 54-56 Lê Thanh Nghị, Q. Hai Bà Trưng  
 285 Đại Cân, Q. Ba Đình

Tel: 1800 1779  
 Tel: 1800 282824

In the "Meal group" section, the admin can add, edit, and delete meals group.

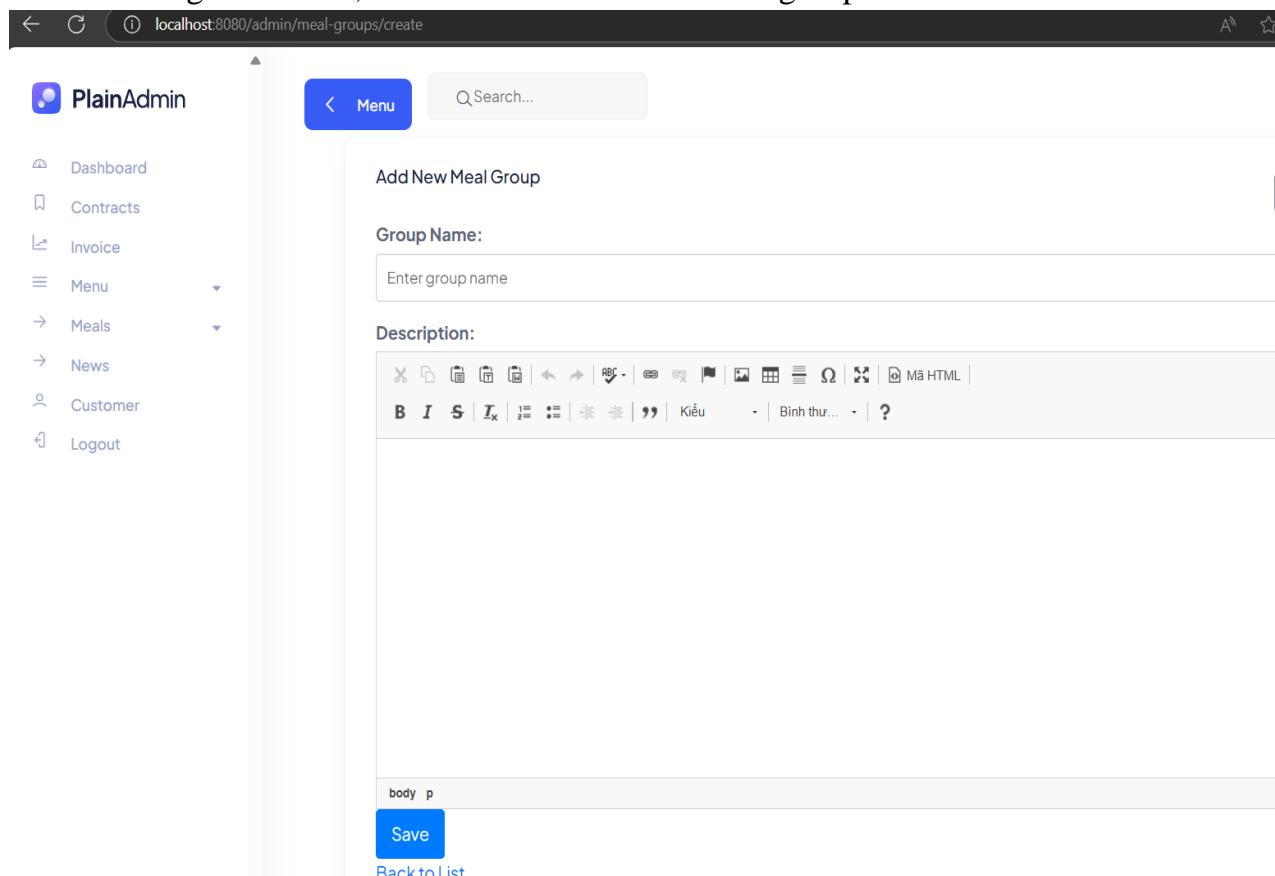


The screenshot shows a web-based administration interface for managing meal groups. On the left, there is a sidebar with navigation links: Dashboard, Contracts, Invoice, Menu (with sub-options Meals, News), Customer, and Logout. The main content area is titled 'Meal Group List'. It contains a table with columns: ID, Name Meal Group, Description, and Action. There are three entries in the table:

ID	Name Meal Group	Description	Action
1	dry food group		<a href="#">Edit</a>   <a href="#">Delete</a>
2	drink group		<a href="#">Edit</a>   <a href="#">Delete</a>
3	soup group		<a href="#">Edit</a>   <a href="#">Delete</a>

At the bottom of the table, there is a navigation bar with buttons for '«', '»', and the number '1'.

After entering the details, click "Save" to create a meal group.



The screenshot shows a 'PlainAdmin' interface for adding a new meal group. The left sidebar has the same navigation as the previous screenshot. The main area is titled 'Add New Meal Group'. It contains two input fields: 'Group Name:' with a placeholder 'Enter group name' and 'Description:' with a rich text editor toolbar. At the bottom of the form, there is a 'Save' button and a 'Back to list' link.

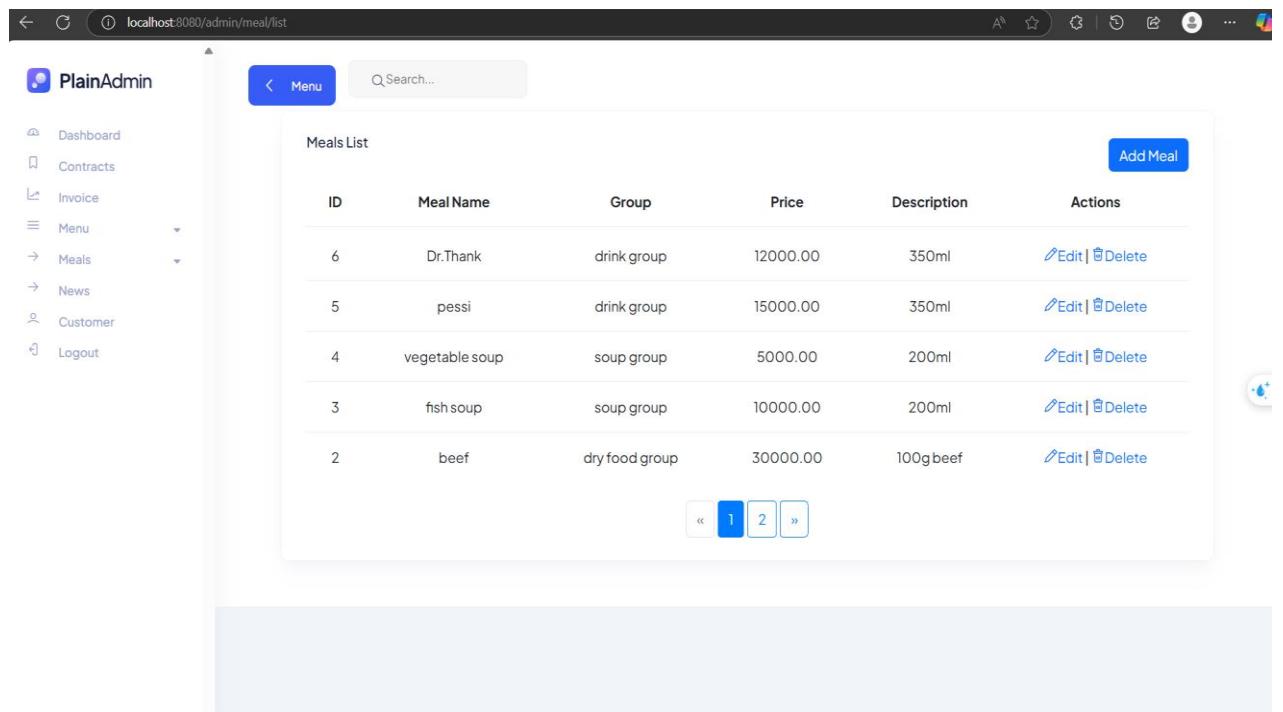
#### HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH



TP. HCM: 35/6 đường D5, Q. Bình Thạnh  
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Hà Nội: 54-56 Lê Thanh Nghị, Q. Hai Bà Trưng  
285 Đại Cǎn, Q. Ba Đình

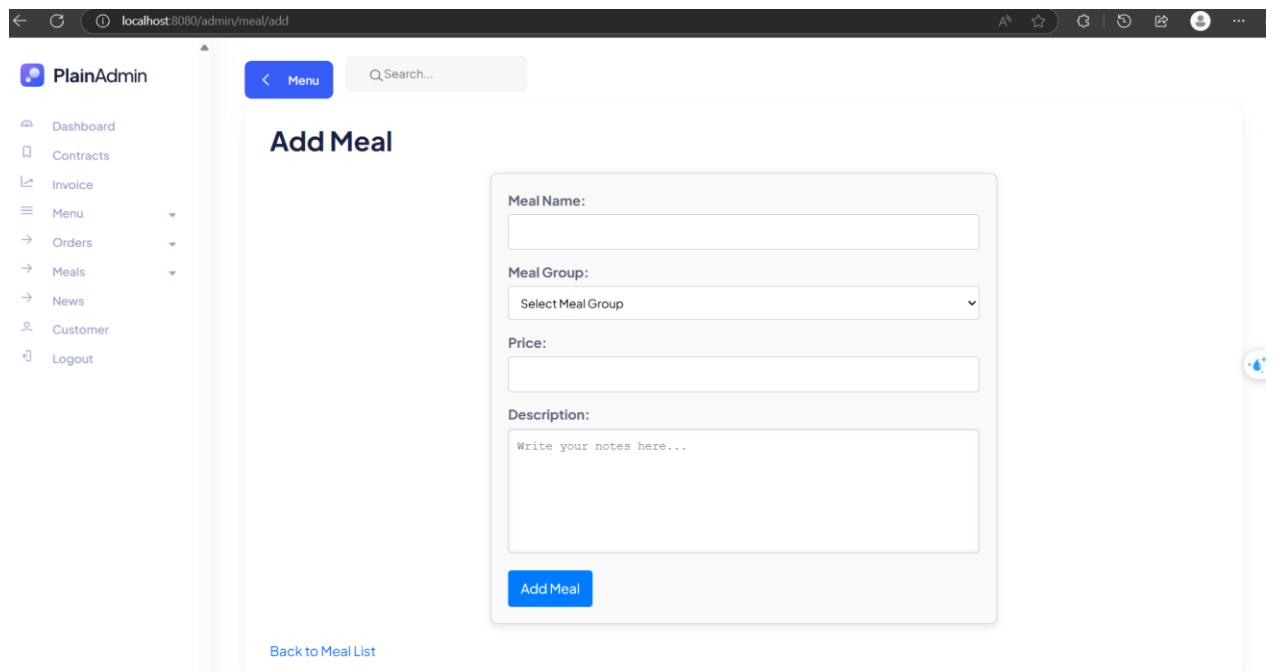
Tel: 1800 1779  
Tel: 1800 282824

In the "Meal" section, the admin can add, edit, and delete meals.



ID	Meal Name	Group	Price	Description	Actions
6	Dr.Thank	drink group	12000.00	350ml	<a href="#">Edit</a>   <a href="#">Delete</a>
5	pessi	drink group	15000.00	350ml	<a href="#">Edit</a>   <a href="#">Delete</a>
4	vegetable soup	soup group	5000.00	200ml	<a href="#">Edit</a>   <a href="#">Delete</a>
3	fish soup	soup group	10000.00	200ml	<a href="#">Edit</a>   <a href="#">Delete</a>
2	beef	dry food group	30000.00	100g beef	<a href="#">Edit</a>   <a href="#">Delete</a>

After entering the name, selecting the meal group, setting the price, and adding a note, click "Add Meal" to create it.



**Add Meal**

Meal Name:

Meal Group:

Select Meal Group

Price:

Description:

Write your notes here...

[Add Meal](#)

[Back to Meal List](#)

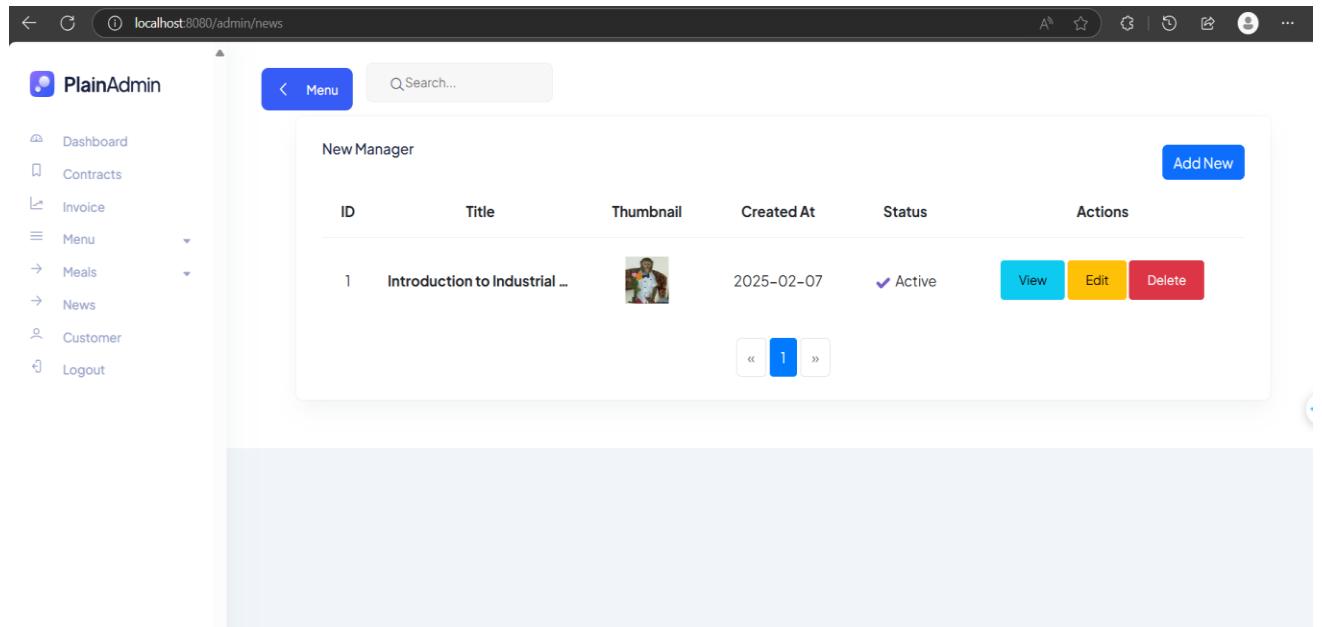
### HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH



TP. HCM: 35/6 đường D5, Q. Bình Thạnh  
778/10 Nguyễn Kiệm, Q. Phú Nhuận  
Hà Nội: 54-56 Lê Thanh Nghị, Q. Hai Bà Trưng  
285 Đại Cân, Q. Ba Đình

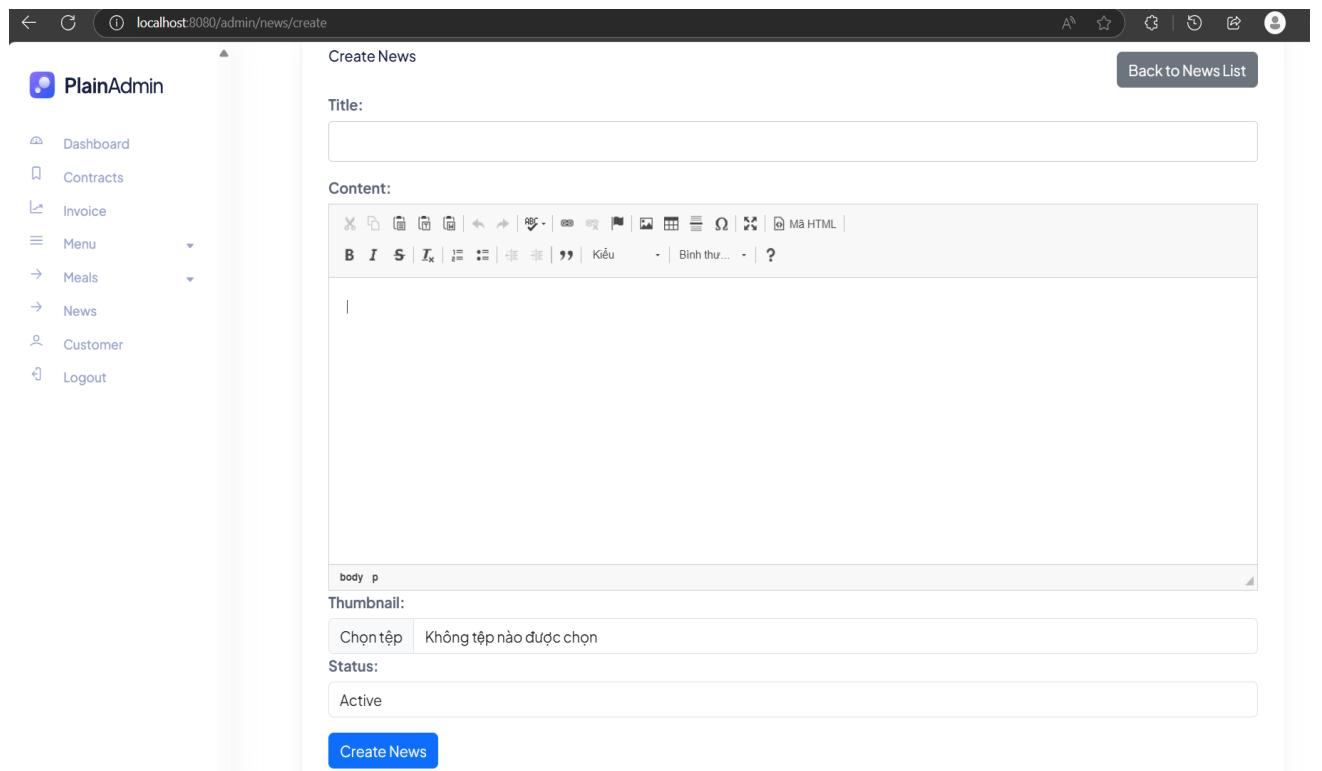
Tel: 1800 1779  
Tel: 1800 282824

In the "News" section, the admin can view, add, edit, and delete news.



The screenshot shows the 'News' list page of the PlainAdmin application. The left sidebar includes links for Dashboard, Contracts, Invoice, Menu, Meals, News, Customer, and Logout. The main content area has a search bar and a table titled 'New Manager'. The table columns are ID, Title, Thumbnail, Created At, Status, and Actions. One news item is listed: ID 1, Title 'Introduction to Industrial ...', thumbnail (small image of a person), Created At 2025-02-07, Status Active, and Actions buttons for View, Edit, and Delete. A navigation bar at the bottom shows page 1 of 1.

This is create news



The screenshot shows the 'Create News' page of the PlainAdmin application. The left sidebar is identical to the previous screenshot. The main content area has fields for Title (with a placeholder 'Title:' and a text input field), Content (with a rich text editor toolbar and a text input field), and a body p field (with a text input field). Below these are fields for Thumbnail (with a placeholder 'Chọn tệp' and a note 'Không tệp nào được chọn'), Status (with a dropdown menu showing 'Active'), and a 'Create News' button.

#### HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH

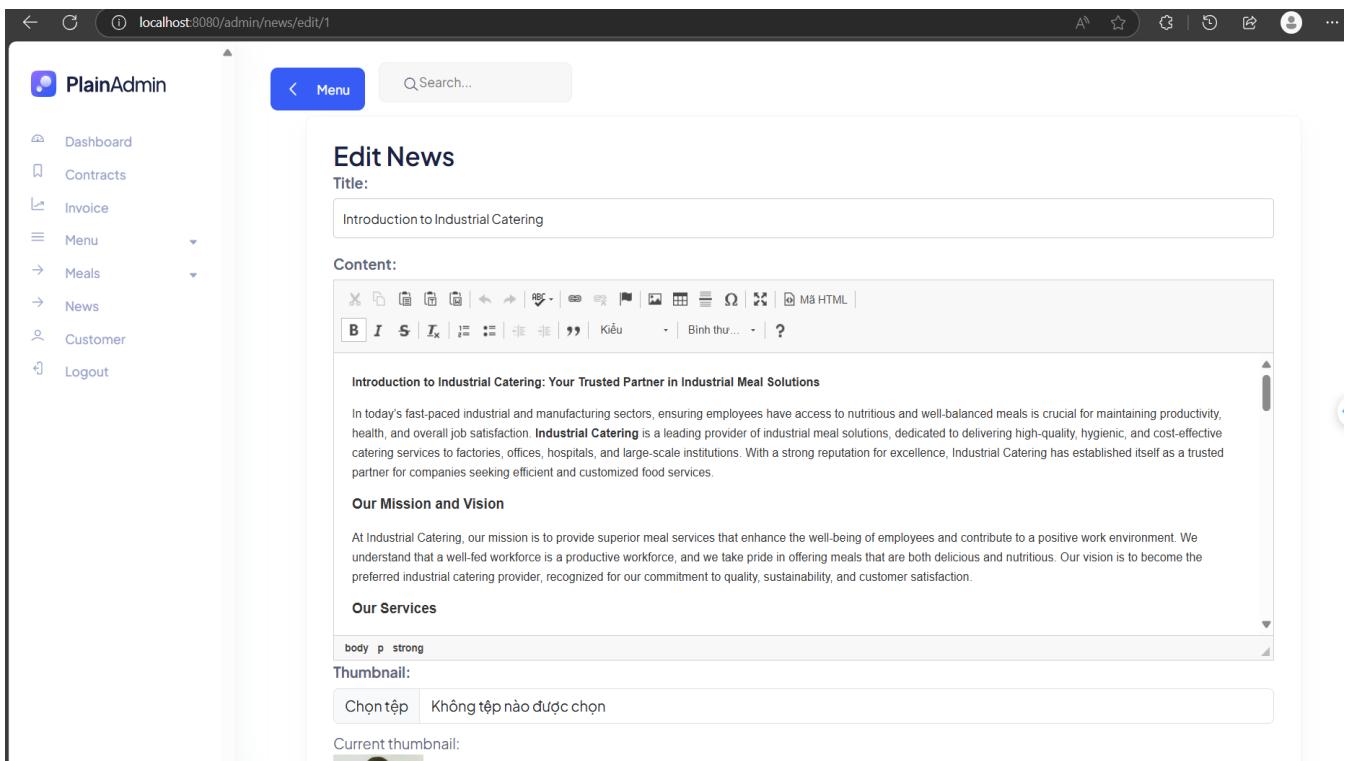


TP. HCM: 35/6 đường D5, Q. Bình Thạnh  
778/10 Nguyễn Kiệm, Q. Phú Nhuận  
Hà Nội: 54-56 Lê Thanh Nghị, Q. Hai Bà Trưng  
285 Đại Cân, Q. Ba Đình

Tel: 1800 1779  
Tel: 1800 282824

## Edit news

localhost:8080/admin/news/edit/1



**Title:**  
Introduction to Industrial Catering

**Content:**

Introduction to Industrial Catering: Your Trusted Partner in Industrial Meal Solutions

In today's fast-paced industrial and manufacturing sectors, ensuring employees have access to nutritious and well-balanced meals is crucial for maintaining productivity, health, and overall job satisfaction. **Industrial Catering** is a leading provider of industrial meal solutions, dedicated to delivering high-quality, hygienic, and cost-effective catering services to factories, offices, hospitals, and large-scale institutions. With a strong reputation for excellence, Industrial Catering has established itself as a trusted partner for companies seeking efficient and customized food services.

**Our Mission and Vision**

At Industrial Catering, our mission is to provide superior meal services that enhance the well-being of employees and contribute to a positive work environment. We understand that a well-fed workforce is a productive workforce, and we take pride in offering meals that are both delicious and nutritious. Our vision is to become the preferred industrial catering provider, recognized for our commitment to quality, sustainability, and customer satisfaction.

**Our Services**

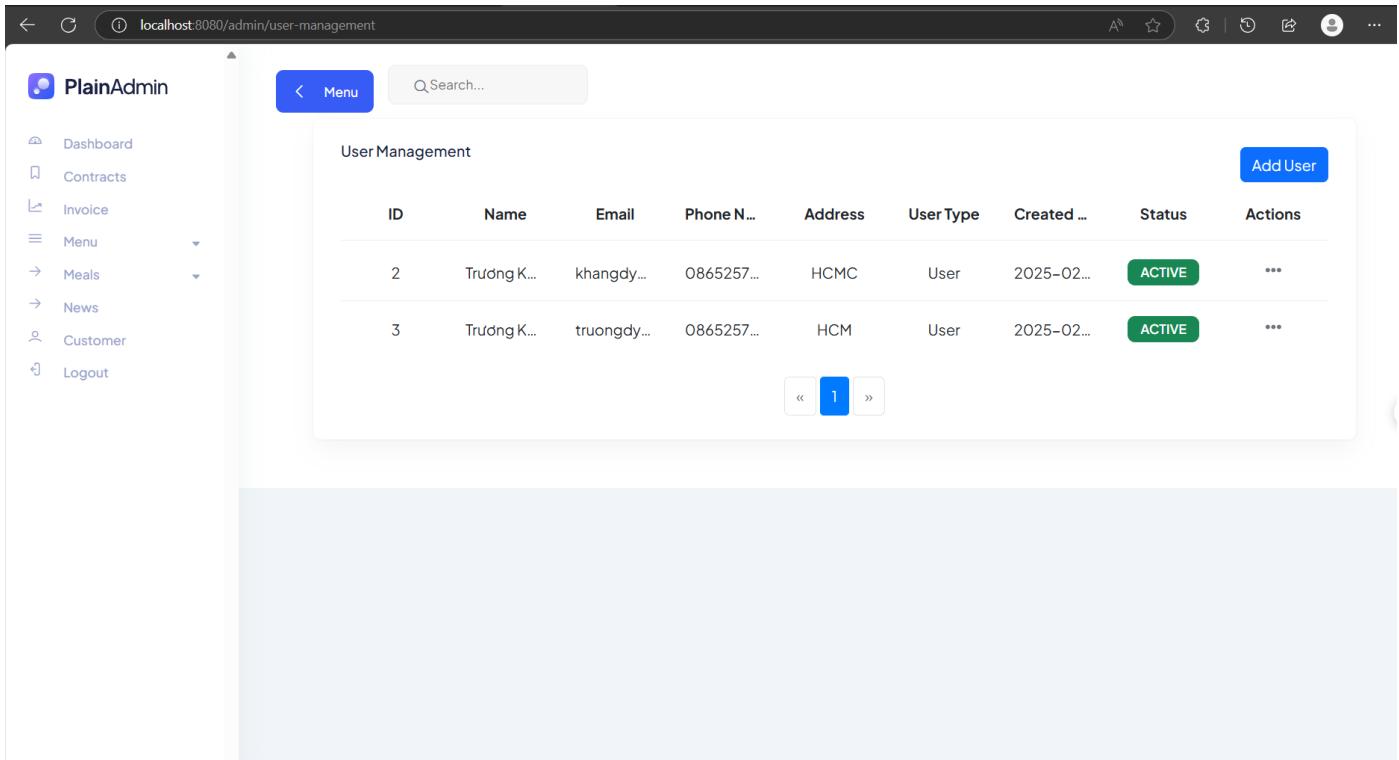
body p strong

**Thumbnail:**  
Chọn tệp | Không tệp nào được chọn

Current thumbnail:

In customer management, the admin can add customers and edit their account status.

localhost:8080/admin/user-management



ID	Name	Email	Phone N...	Address	User Type	Created ...	Status	Actions
2	Truong K...	khangdy...	0865257...	HCMC	User	2025-02...	ACTIVE	...
3	Truong K...	truongdy...	0865257...	HCM	User	2025-02...	ACTIVE	...

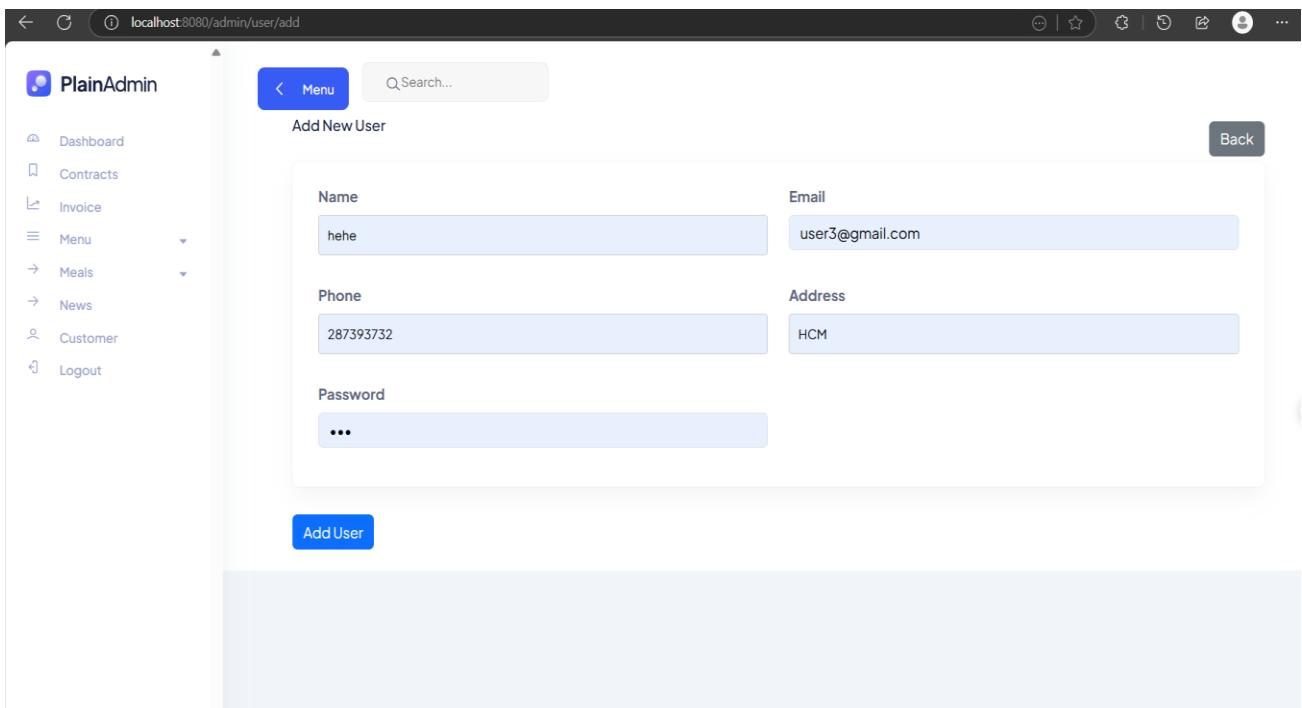
## HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH



TP. HCM: 35/6 đường D5, Q. Bình Thạnh  
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Hà Nội: 54-56 Lê Thanh Nghị, Q. Hai Bà Trưng  
285 Đại Cân, Q. Ba Đình

Tel: 1800 1779  
Tel: 1800 282824

## Add customer

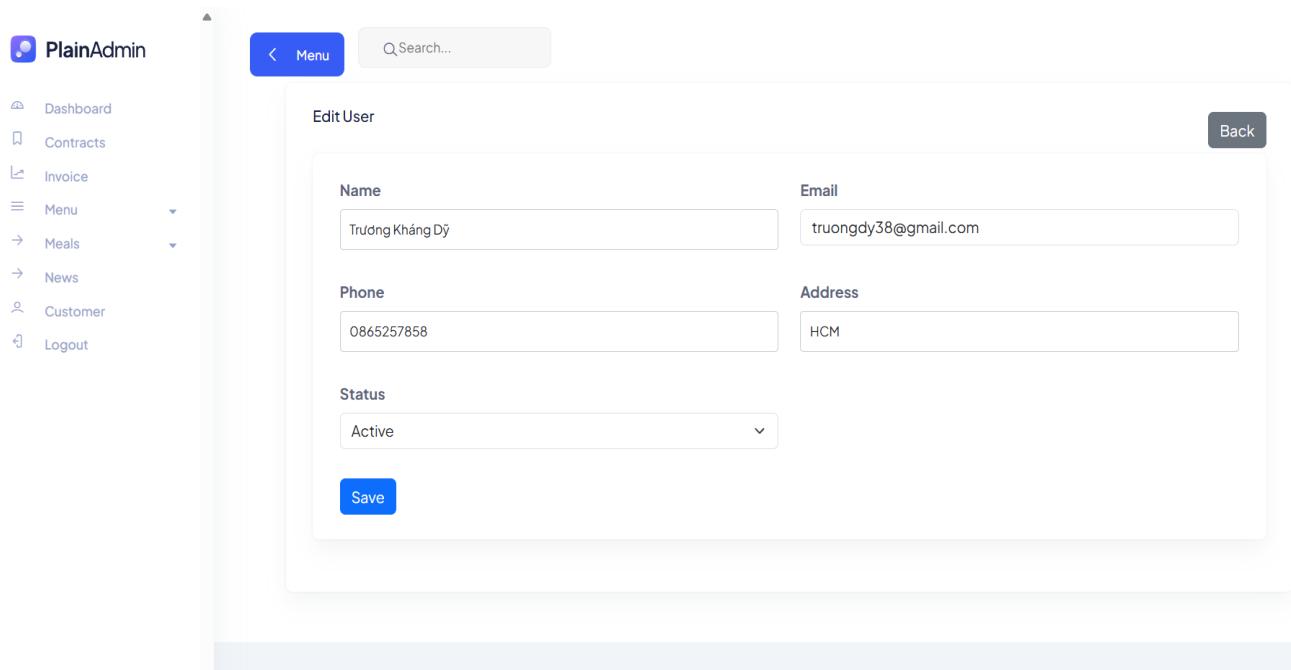


Add New User

Name	Email
<input type="text" value="hehe"/>	<input type="text" value="user3@gmail.com"/>
Phone	Address
<input type="text" value="287393732"/>	<input type="text" value="HCM"/>
Password	
<input type="password" value="•••"/>	

**Add User**

## Edit customer



Edit User

Name	Email
<input type="text" value="Trương Kháng Dỹ"/>	<input type="text" value="truongdy38@gmail.com"/>
Phone	Address
<input type="text" value="0865257858"/>	<input type="text" value="HCM"/>
Status	
<input type="text" value="Active"/>	

**Save**

HỆ THỐNG ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ APTECH

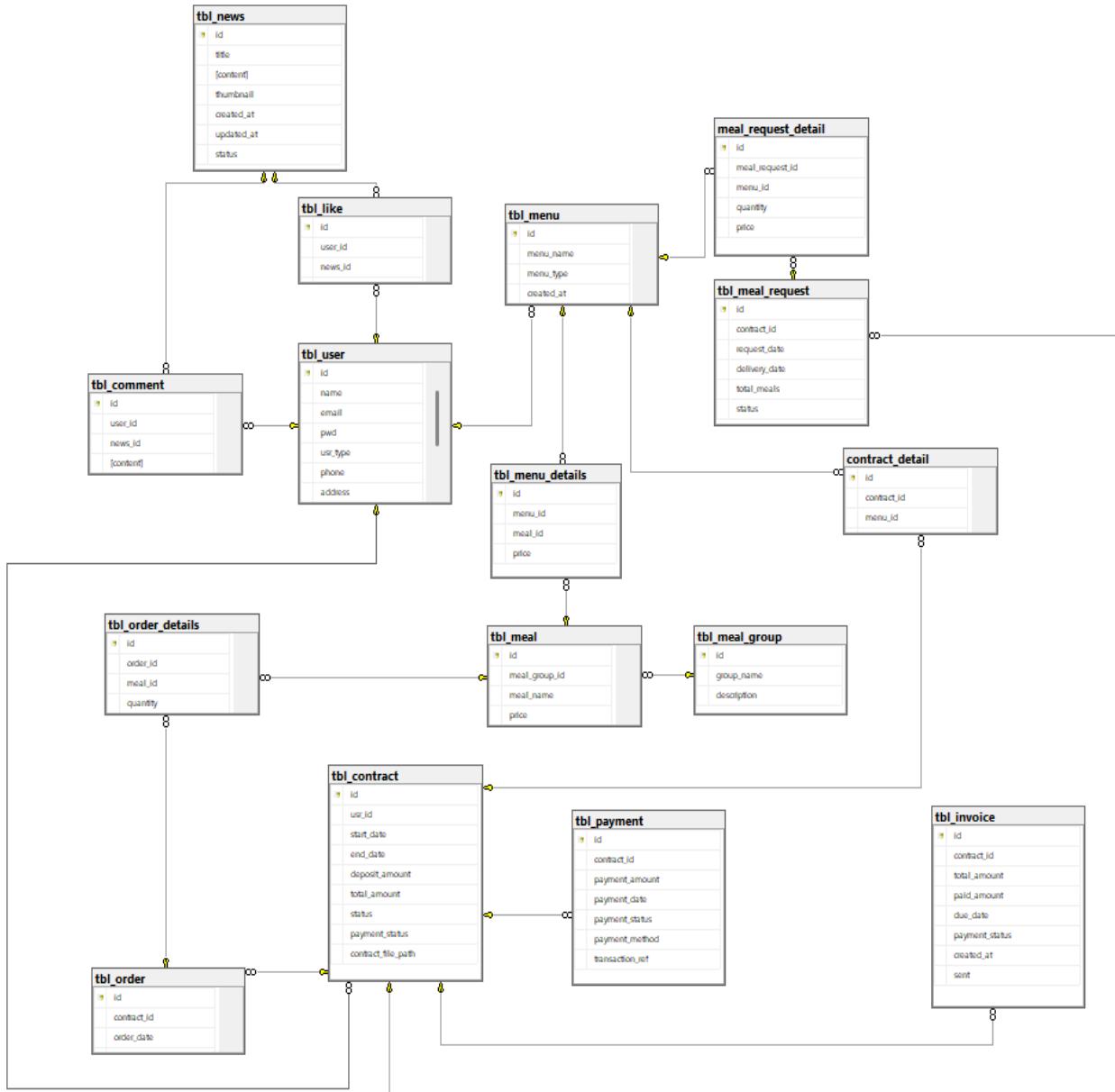


TP. HCM: 35/6 đường D5, Q. Bình Thạnh  
778/10 Nguyễn Kiệm, Q. Phú Nhuận  
Hà Nội: 54-56 Lê Thanh Nghị, Q. Hai Bà Trưng  
285 Đội Cấn, Q. Ba Đình

Tel: 1800 1779  
Tel: 1800 282824

## 5. Database

### 1. ER Diagram



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## 2. Detail of Tables

Table Name	Column Name	Data Type	Primary Key	Constraints	Foreign Key To Table	Description
tbl_user	id	int	Yes	IDENTITY		User and administrator information
	name	nvarchar(50)		NOT NULL		
	email	varchar(100)		NOT NULL, UNIQUE		
	pwd	varchar(255)		NOT NULL		
	usr_type	int		NOT NULL		
	phone	varchar(15)		NOT NULL		
	address	nvarchar(255)		NOT NULL		
tbl_contract	created_at	datetime		NOT NULL		Customer contract information
	status	int		CHECK		
	id	int	Yes	IDENTITY		
	usr_id	int		NOT NULL	tbl_user	
	start_date	date				
	end_date	date				
	deposit_amount	decimal(10, 2)				
tbl_menu	total_amount	decimal(10, 2)				Menus created by admins or users
	status	int		CHECK		
	payment_status	int		CHECK		
	contract_file_path	nvarchar(255)				
	id	int	Yes	IDENTITY		
	menu_name	nvarchar(100)		NOT NULL		
	menu_type	int		CHECK		
tbl_meal_group	created_at	datetime		DEFAULT		Meal group classification (e.g., main course, side dish, dessert)
	usr_id	int			tbl_user	
	id	int	Yes	IDENTITY		
	group_name	varchar(100)		NOT NULL		
	description	text				
	meal_group_id	int	Yes	IDENTITY		
	meal_name	nvarchar(100)		NOT NULL	tbl_meal_group	
tbl_meal	price	decimal(10, 2)		NOT NULL		Detailed information about each meal
	description	text				
	id	int	Yes	IDENTITY		
	menu_id	int		NOT NULL	tbl_menu	
	meal_id	int		NOT NULL	tbl_meal	
	price	decimal(10, 2)				
	contract_id	int	Yes	IDENTITY		
tbl_meal_request	contract_id	int		NOT NULL	tbl_contract	Details of the menu applied to a contract
	menu_id	int		NOT NULL	tbl_menu	
	description	nvarchar(255)				
	id	int	Yes	IDENTITY		
	request_date	date		NOT NULL		
	delivery_date	date		NOT NULL		
	total_meals	int		NOT NULL		
tbl_meal_request_detail	status	int		CHECK		Daily meal requests from customers
	id	int	Yes	IDENTITY		
	meal_request_id	int		NOT NULL	tbl_meal_request	
	menu_id	int		NOT NULL	tbl_menu	
	quantity	int		NOT NULL		
	price	decimal(10, 2)		NOT NULL		
	status	int				
tbl_order	id	int	Yes	IDENTITY		Quantity details for each menu in a request
	contract_id	int		NOT NULL	tbl_contract	
	order_date	date		NOT NULL		
	status	int		CHECK		
	id	int	Yes	IDENTITY		
	order_id	int		NOT NULL	tbl_order	
	meal_id	int		NOT NULL	tbl_meal	
tbl_order_details	quantity	int		NOT NULL		Aggregated orders from requests
	price	decimal(10, 2)		NOT NULL		
	status	int				
	id	int	Yes	IDENTITY		
	order_id	int		NOT NULL	tbl_order	
	meal_id	int		NOT NULL	tbl_meal	
	quantity	int		NOT NULL		
tbl_invoice	price	decimal(10, 2)		NOT NULL		Details of meals and quantities in an order
	id	int	Yes	IDENTITY		
	contract_id	int		NOT NULL	tbl_contract	
	total_amount	decimal(10, 2)		NOT NULL		
	paid_amount	decimal(10, 2)				
	due_date	date		NOT NULL		
	payment_status	int		CHECK		
tbl_news	created_at	datetime		DEFAULT		Invoices for contract payments
	sent	bit		DEFAULT 0		
	id	int	Yes	IDENTITY		
	title	nvarchar(255)		NOT NULL		
	content	text		NOT NULL		
	thumbnail	nvarchar(255)				
	created_at	datetime		DEFAULT		
tbl_like	updated_at	datetime		DEFAULT		Manages news and articles
	status	int		DEFAULT		
	id	int	Yes	IDENTITY		
	user_id	int		NOT NULL	tbl_user	
	news_id	int		NOT NULL	tbl_news	
	created_at	datetime		DEFAULT		
	updated_at	datetime		DEFAULT		
tbl_comment	id	int	Yes	IDENTITY		User likes for articles
	user_id	int		NOT NULL	tbl_user	
	news_id	int		NOT NULL	tbl_news	
	content	text		NOT NULL		
	created_at	datetime		DEFAULT		
	updated_at	datetime		DEFAULT		
	id	int	Yes	IDENTITY		
tbl_payment	contract_id	int		NOT NULL	tbl_contract	User comments for articles
	payment_amount	decimal(10, 2)		NOT NULL		
	payment_date	datetime		DEFAULT		
	payment_status	int		CHECK		
	payment_method	nvarchar(50)				
	transaction_ref	nvarchar(50)				
	id	int	Yes	IDENTITY		

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