

Web Applications Project - Parrot Ordering Platform

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Design Documentation

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1 Introduction

1.1 Project Overview

“Parrot Ordering” is a campus-based online meal ordering system crafted to offer seamless ordering services for students and faculty. Due to the love of parrots among the team members, this project incorporates parrot-themed elements, which also makes this website cute and vibrant. Utilizing Python and the Flask web framework, we are building a robust backend that enables users to effortlessly browse the menu, place their orders, manage dishes, and access administrative features.

The application leverages RESTful APIs to facilitate smooth interactions between the front-end interface and the database, ensuring that users receive real-time updates on their orders. For the front end, we are employing HTML, CSS, and JavaScript to create an engaging and visually appealing user experience, infused with parrot motifs that make navigation fun and enjoyable.

To enhance functionality, we will integrate a secure authentication system for user accounts and an intuitive dashboard for administrative tasks, all while ensuring data security and user privacy. By blending technical prowess with a whimsical theme, Parrot Ordering offers not only efficient meal ordering but also a unique and enjoyable online dining experience for the campus community.

1.2 Project Goals

1. **Enhancing the Ordering Experience:** Create an easy-to-use interface that allows students and faculty staff to quickly browse the menu, select dishes, and place online orders. This will reduce wait times in the cafeteria and improve service efficiency.
2. **Increasing Interactivity:** Enable users to place orders, share their dining experiences through dish reviews, and interact socially by adding friends and communicating in real-time via a chat feature. This will promote greater social interaction among users.
3. **Flexible Dish Management:** Provide cooks with convenient tools to update the menu, add, modify, or delete dishes, and respond to customer reviews, ensuring the menu’s flexibility and timeliness.
4. **Platform Security and Management:** Ensure that the administrator can monitor user activities to maintain platform security. The Administrator has the capability to delete inappropriate comments, manage content, and disable problematic accounts to ensure smooth operation.
5. **Personalized Experience:** Users can manage their personal profiles, with customers able to view their order history and cooks able to showcase their dishes and profiles, providing a tailored experience for each user category.

1.3 Target Audience

The target users of the platform are students, faculty staff, and cafeteria workers on campus. For customers, "Parrot Ordering" offers a convenient ordering and interactive experience. For cooks, the platform provides tools for managing menus and communicating with customers. Administrators can ensure service quality and information security through the platform.

1.4 Design elements

Our group wanted to incorporate the self-created parrot element, but due to time constraints, we have only designed one icon so far, and we have not imported it into the UI design.

However, in next milestones, we will incorporate parrot elements, including this original icon, into our website design.



Figure 1: Web Symbol

2 Use Case Diagram

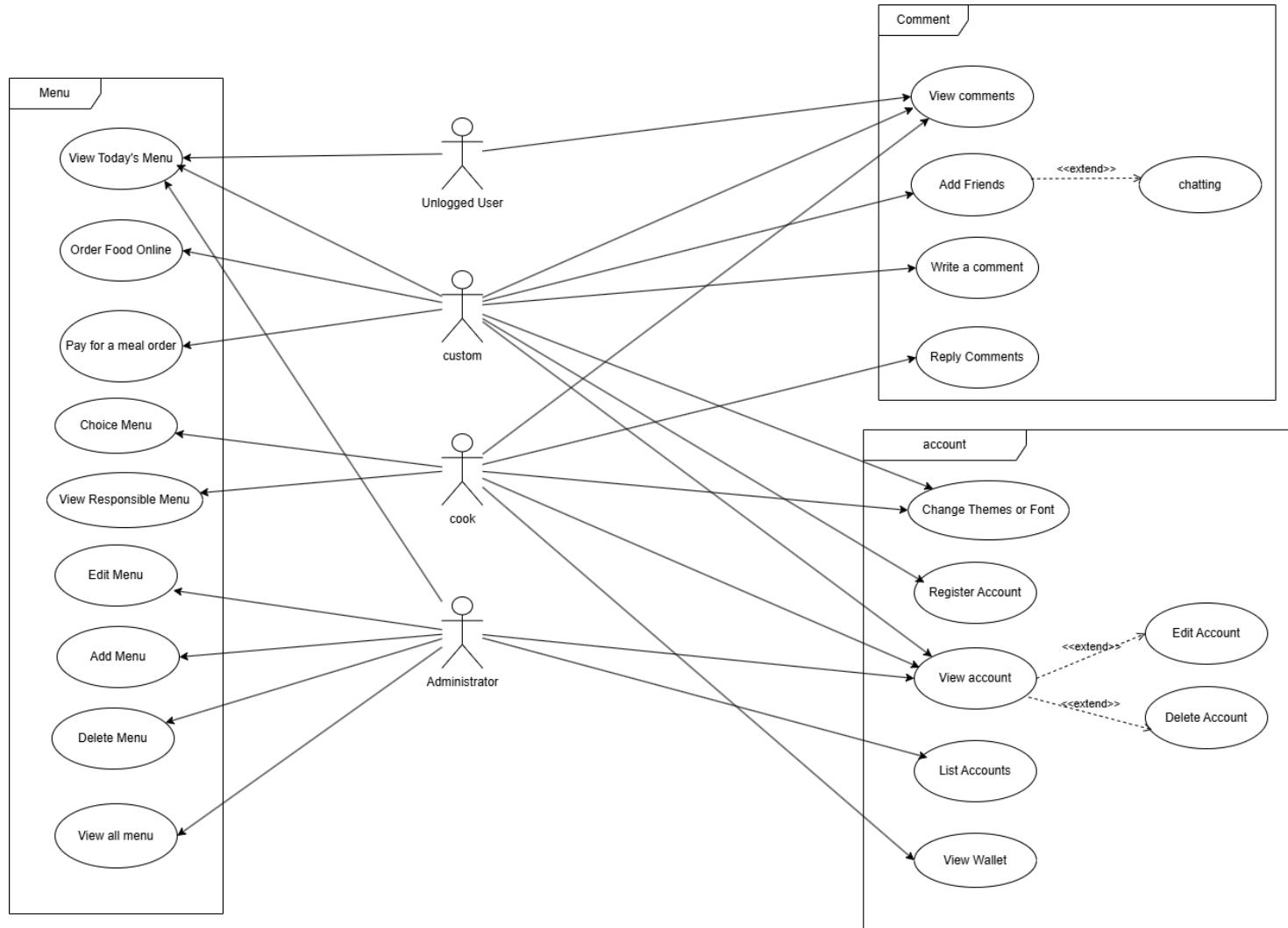


Figure 2: Use Case Diagram

3 UI Mockups and Website Functionalities

3.1 Custom

3.1.1 Register Account

Description

Allows the custom user to create an account in the system to facilitate ordering and commenting.

Triggers

This use case is triggered when the custom user wishes to register a new account.

Preconditions

The custom user is on the login page and does not have an account.

Postconditions

After successfully registering, the system creates a new account and redirects the user to their personal homepage.

Basic Course of Events

1. The custom user selects the "Register Account" option on the login page.
2. The system displays a registration form, prompting the user to fill in the necessary information:
 - User name
 - E-mail
 - Password
 - Verify Password
3. The custom user submits the registration form after filling in the information.
4. If the information is valid, the system creates a new account and saves the user information to the database.
5. The system displays a confirmation message indicating successful registration and automatically redirects to the user's personal homepage.

Relevant UI Sketches

A wireframe diagram of a registration form. At the top left is a blue 'Return' button. Below it are four input fields: 'User Name' with the value 'Blanca', 'Email' with the value '12345678@163.com', 'Password' with five dots, and 'Verify Password' with five dots. At the bottom are two blue buttons: 'Register' on the left and 'Cancel' on the right.

3.1.2 View Account

Description

Allows custom users to view and manage their account information, including personal details, order history, order details, dish reviews, and theme settings.

Triggers

This use case is triggered when a custom user wants to view or update their account information.

Preconditions

The custom user is logged into their account and is on the personal homepage or account page.

Postconditions

The user can view and edit their personal information, order history, and reviews, as well as change their theme settings.

Basic Course of Events

1. The custom user navigates to the "View Account" page from the homepage or dashboard.
2. The system displays account information, including:
 - Username
 - Name
 - Introduction
 - Encrypted password
3. The system displays the user's order history, including basic information for each order (e.g., order number, date, and total amount).
4. The user can select a specific order to view detailed information, including:
 - Dish name
 - Price
 - Quantity
 - Cook
5. The user can edit personal information.
6. The user can select and apply different themes in the settings.

Extension Points

If the user wants to change their password, the system will provide the relevant functionality.

Inclusions

This functionality may include statistics and analysis of the user's historical orders and dish reviews.

Relevant UI Sketches

The image contains two wireframe sketches of a profile page. The left sketch shows a user's personal information: name (Blanca), email (12345678@163.com), password (*****), and introduction (XXX). It includes a placeholder image, a 'Change Image' button, and three action buttons: 'Save', 'Delete', and 'Edit'. The right sketch shows a list of orders: Order 001 (Total: ¥12, Date: 2024-10-23 12:00) with two items: Dish Name 1 and Dish Name 2.

3.1.3 Edit Account(Delete Account)

Description

Allows custom users to change their name, email, password, and self-introduction in their profile.

Triggers

This use case is triggered when a custom user wants to update their account information.

Preconditions

The custom user is logged into their account and is on the profile page.

Postconditions

The user successfully changes their personal information, which is updated in the system.

Basic Course of Events

1. The custom user selects the "Modify Account" option from the "View Account" page.
2. The system displays a modification form containing the current account information:
 - Name
 - Email
 - Password
 - Self-introduction
3. The user modifies the required information in the form.
4. The user submits the modification request.

5. The system validates the input information:

- If the input is valid, the system updates the user information and displays a success message.
- If the input is invalid, the system displays an error message and prompts the user to re-enter the information.

6. After a successful update, the user can return to the "View Account" page to confirm the changes.

Extension Points

The system may provide a password strength check to ensure that the password set by the user is sufficiently secure.

Inclusions

This functionality may include a preview of the modified information, allowing the user to review changes before submitting.

Relevant UI Sketches

The UI sketch shows a "Profile" tab selected in the top navigation bar, along with "Home" and "Messages". Below the tabs are links for "Personal Information", "Order History", and "Settings". The main content area displays a user's profile picture (a cartoon girl with short black hair), their name "Blanca", email "12345678@163.com", and password "*****". There is also an "Introduction" field containing "XXX". Buttons for "Change Image", "Save", "Delete", and "Edit" are present. At the bottom right, there is a "Logout" button.

3.1.4 Change Themes or Font

Description

Allows users to change the website's theme and the font on the interface to provide a personalized user experience.

Trigger Condition

Triggered when the user wishes to change the appearance of the website.

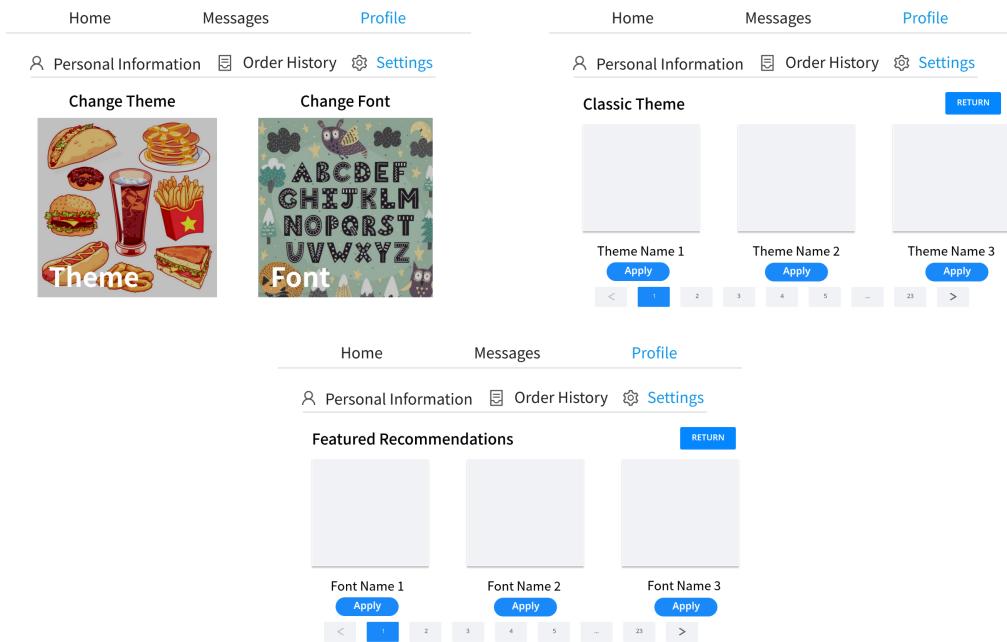
Preconditions

The user is logged into their account and is on the settings page.

Postconditions

The user successfully changes the theme and font, and the system updates the interface to reflect the new selections.

Relevant UI Sketches



3.1.5 View today's Menu

Description

Allows the custom user to view the menu available in the system, including details about each dish.

Triggers

This use case is triggered when the custom user wishes to browse the available dishes before placing an order.

Preconditions

The custom user is logged into their account and is on the menu page (e.g., 10-menu-page).

Post conditions

The details of the menu items are displayed on the menu page, including dish name, description, price, cook, and review history.

Basic Course of Events

1. The custom user navigates to the menu page from the homepage or dashboard.
2. The system retrieves the list of available dishes from the database.

3. The system displays the menu page with a list of all available dishes.
4. For each dish, the system displays:
 - Dish Name
 - Dish details
 - Price
 - Cook
 - Review History

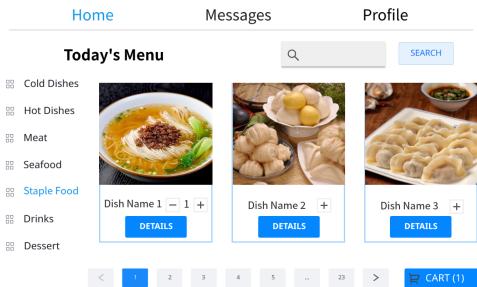
Extension Points

None

Inclusions

The view menu functionality may include links to user comments.

Relevant UI Sketches



3.1.6 Order Food Online

Description

Allows custom users to select dishes online and place orders, completing the ordering process.

Triggers

This use case is triggered when a custom user wishes to place an order.

Preconditions

The custom user is logged into their account and has added at least one dish to the shopping cart from the menu page.

Postconditions

The user successfully places an order, and the system records the order and updates the user's

order history.

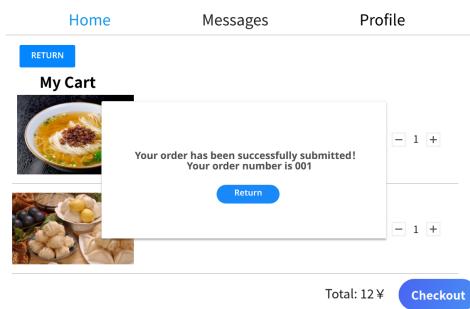
Basic Course of Events

1. The custom user browses the available dishes on the menu page.
2. The user selects at least one dish and clicks "Add to Cart."
3. The system adds the selected dish to the shopping cart and displays the list of items in the cart.
4. The user can choose to continue shopping or proceed to checkout.
5. If the user chooses to proceed to checkout:
 - The system displays a summary of the shopping cart, including dish names, quantities, prices, and the total amount.
6. The user confirms the order and clicks the "Place Order" button.
7. The system processes the order and displays a success message.
8. The system saves the order information to the database and updates the user's order history.

Extension Points

- Users can modify the quantities of dishes in the cart or remove unwanted items.
- Users can view detailed information about each dish (such as historical reviews and cook information) to assist in decision-making.

Relevant UI Sketches



3.1.7 View Comments

Description

Allows custom users to view comments on the dishes they have ordered, including reviews from other users and responses from cooks.

Triggers

This use case is triggered when a custom user wishes to view comments on the dishes they have ordered.

Preconditions

The custom user is logged into their account and has selected the dish they want to view comments for from the order details page on their profile.

Postconditions

The user successfully views the comments and can see relevant reviews and responses.

Basic Course of Events

1. The custom user navigates to the "Order Details" page on their profile.
2. The user selects a completed order and clicks the "View Comments" option.
3. The system displays all comments for that dish, including:
 - Reviewer's username
 - Review text
 - Star rating
 - Cook's response (if any)
4. The user can choose to view detailed information about a specific comment.

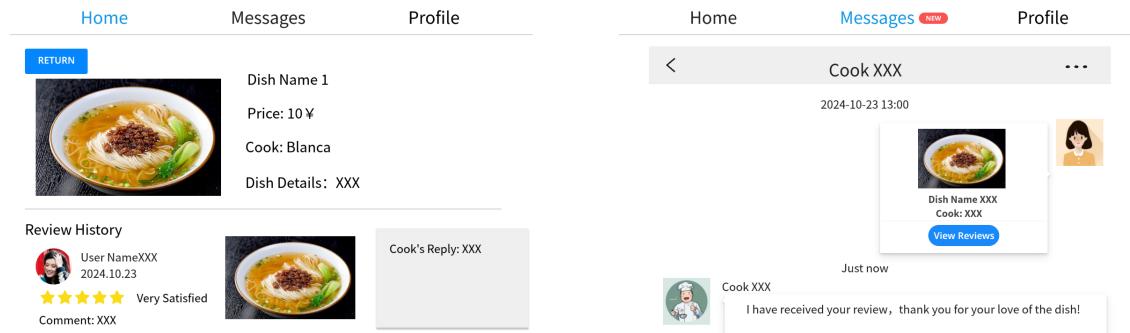
Extension Points

None

Inclusions

None

Relevant UI Sketches



3.1.8 Write Comment

Description

Allows custom users to leave reviews for dishes they have ordered after their meal. Reviews can be responded to by cooks, and custom users can add friends through reviews for future chat interactions.

Triggers

This use case is triggered when a custom user wishes to review a dish they have ordered.

Preconditions

The custom user is logged into their account and has selected the dish to review from the order details page on their profile.

Postconditions

The user's review is successfully published, the system records the review information, and allows interaction between cooks and other custom users.

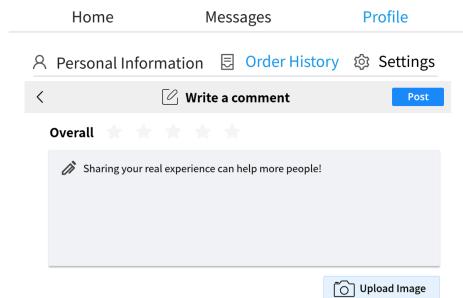
Basic Course of Events

1. The custom user navigates to the "Order Details" page on their profile.
2. The user selects a completed order and clicks the "Write Review" option.
3. The system displays a review form, prompting the user to fill in the review details:
 - Review text
 - Star rating (e.g., 1-5 stars)
4. The user submits the completed review form.
5. If the review is valid, the system saves the review to the database and displays a success message.

Extension Points

- Cooks can receive notifications of reviews and reply to comments below.

Relevant UI Sketches



3.1.9 Add Friends

Description

Allows custom users to add friends by viewing comments from other users or searching for user-
names, enabling chat interactions in the messaging interface.

Triggers

This use case is triggered when a custom user wishes to add new friends.

Preconditions

The custom user is logged into their account and is in the comment viewing or user search interface.

Postconditions

The user successfully adds a friend, the system updates the friend list, and enables chat function-
ality in the messaging interface.

Basic Course of Events

1. The custom user browses comments from other users on the comment viewing page.
2. The user clicks on the username of a commenter, and the system navigates to that user's profile page.
3. The user selects the "Add Friend" option on the profile page.
4. The system sends a friend request to that user and displays a message indicating that the request was sent successfully.

5. If the user wishes to add friends through search, they can enter a username in the search box.
6. The system displays a list of matching users.
7. The user selects a specific user and clicks the "Add Friend" button.
8. The system sends a friend request and displays a message indicating that the request was sent successfully.

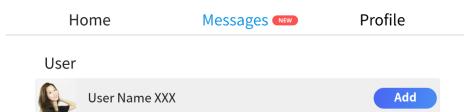
Extension Points

None

Inclusions

None

Relevant UI Sketches



3.2 Cook

3.2.1 Register Account

Description

Allows cooks to input the necessary information to register and create a cook account.

Trigger Condition

Triggered when a new cook account is to be created.

Preconditions

None.

Postconditions

The cook account is successfully created, and the system records the new cook information.

Basic Event Flow

1. The cook selects the "Register" option on the registration page.
2. The system displays a registration form requiring the following information:
 - Username
 - Email
 - Telephone
 - Password
 - Verify Password
3. The cook fills out the information and submits the form.
4. The system validates the input information:
 - If valid, the system creates a new cook account and displays a success message.
 - If invalid, the system displays an error message requesting re-entry.

Extension Points

None

Includes

None

Relevant UI Sketches

The UI sketch shows a registration form with the following fields and buttons:

- A "Return" button at the top left.
- A "User Name:" field containing "Blanca".
- An "Email:" field containing "12345678@163.com".
- A "Telephone:" field containing "xxxxxxxxxx".
- A "Password:" field containing "*****".
- A "Verify Password:" field containing "*****".
- A "Register" button at the bottom left.
- A "Cancel" button at the bottom right.

3.2.2 View Account

Description

Allows cooks to view and manage their account information, including name, email, hidden password, telephone, and introduction.

Triggers

This use case is triggered when a cook wishes to view their account information.

Preconditions

The cook is logged into their account and is on the homepage or account page.

Postconditions

The cook is able to successfully view their account information.

Basic Event Flow

1. The cook navigates to the "View Account" page from the homepage or dashboard.
2. The system displays account information, including:
 - Name
 - Email
 - Hidden password (displayed as "*****")
 - Telephone number
 - Introduction
3. Cook can choose to edit part of the information (such as Telephone, profile picture, introduction, Email, Name) and save the changes.

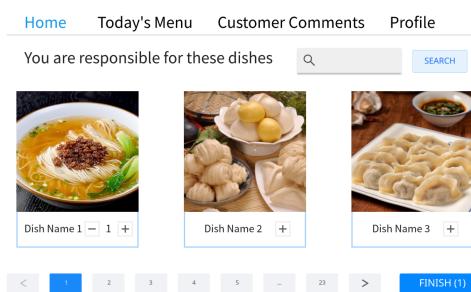
Extension Points

The cook can choose to change the password, and the system will provide the corresponding function.

Inclusions

None

Relevant UI Sketches



3.2.3 Edit Account(Delete Account)

Description

Allows the cook to view their account information and make changes when necessary to maintain the accuracy of their account details or delete their own account.

Trigger Conditions

Triggered when the cook wishes to update their account information.

Preconditions

The cook is logged into their account and is on the account management page.

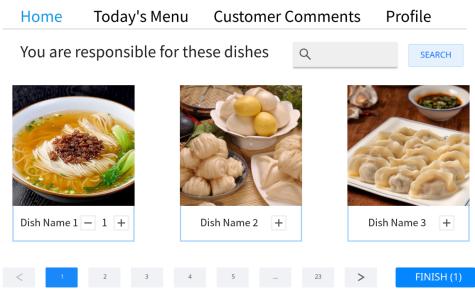
Postconditions

The cook's account information is successfully modified, and the system updates and saves the new information.

Basic Event Flow

1. The cook selects the “Edit Account” option on the account management page.
2. The system displays the current account information, including:
 - Username
 - Email
 - Telephone Number
 - Password (hidden)
 - Introduction
3. The cook modifies the necessary information in the form.
4. The cook submits the modification request.
5. The system verifies the validity of the entered information:
 - If valid, the system updates the cook's account information and displays a success message.
 - If invalid, the system displays an error message requesting re-entry.

Relevant UI Sketches



3.2.4 Change Themes

Description

Allows users to change the website's theme and the font on the interface to provide a personalized user experience.

Trigger Condition

Triggered when the user wishes to change the appearance of the website.

Preconditions

The user is logged into their account and is on the settings page.

Postconditions

The user successfully changes the theme and font, and the system updates the interface to reflect the new selections.

Relevant UI Sketches

[Personal Information](#) [Settings](#)[Personal Information](#) [Settings](#)

Classic Theme

[RETURN](#)

Theme Name 1

[Apply](#)

< 1 >

Theme Name 2

[Apply](#)

< 4 5 >

Theme Name 3

[Apply](#)

< 23 >

[Personal Information](#) [Settings](#)

Featured Recommendations

[RETURN](#)

Font Name 1

[Apply](#)

< 1 >

Font Name 2

[Apply](#)

< 4 5 >

Font Name 3

[Apply](#)

< 23 >

3.2.5 View Comments

Description

Allows cooks to view the comments and ratings given by custom users, including star ratings, comment content, and dish images.

Trigger Conditions

Triggered when the cook wishes to see the feedback on their dishes provided by custom users.

Preconditions

The cook is logged into their account and is on the comments page.

Postconditions

The cook can successfully view the comments and ratings for their dishes.

Basic Event Flow

1. The cook navigates to the "View Comments" page.
2. The system displays all comments related to the cook's dishes, including:
 - Star Rating
 - Comment Content

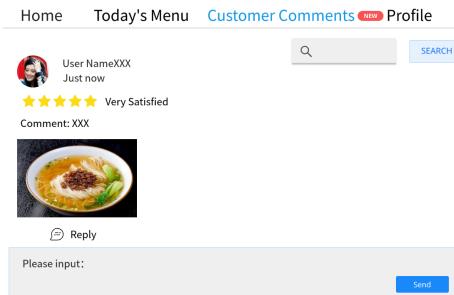
- Dish Image

3. The cook can select a specific comment to view more details if needed.

Extension Points

The cook can click on the reply box below each comment to respond to the reviews.

Relevant UI Sketches



3.2.6 Replay Comments

Description

Allows the cook to reply to comments made by custom users directly below the comments when viewing them.

Triggers

This use case is triggered when the cook wishes to respond to a comment made by a custom user.

Preconditions

The cook is logged into their account and is viewing comments on the "View Comments" page.

Postconditions

The cook successfully replies to the comment, and the system records the reply and displays it below the comment.

Basic Event Flow

1. The cook selects a comment from a custom user on the "Custom Comments" page.
2. The system displays the details of that comment along with a reply input box.
3. The cook fills in the reply content in the input box.
4. The cook submits the reply.

5. The system validates the reply information: If valid, the system saves the reply to the database and displays a success message.
6. The system updates the comment section to display the cook's reply.

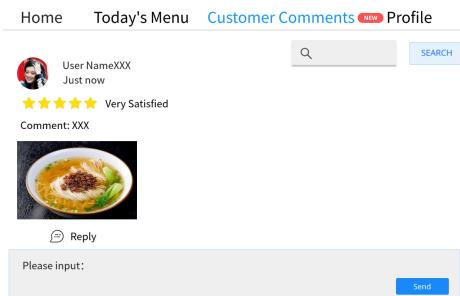
Extension Points

None

Inclusions

None

Relevant UI Sketches



3.2.7 Choice Menu

Description

Allows cooks to view the dishes they have selected for today, including dish name, total number, remaining number (the quantity ordered by custom users), and a detail button to view more information about today's menu.

Trigger Conditions

Triggered when the cook wishes to view the dishes they have selected for today.

Preconditions

The cook is logged into their account and is on the Today's Menu page.

Postconditions

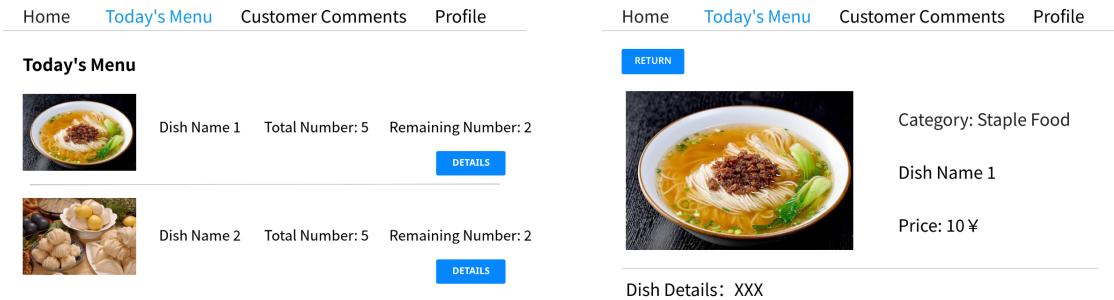
The cook can successfully view today's selected dishes and their details.

Basic Event Flow

1. The cook navigates to the "Today's Menu" page.
2. The system displays a list of dishes selected by the cook for today, including:

- Dish Name
 - Total Number
 - Remaining Number (the quantity ordered by custom users)
3. Next to each dish, there is a "Details" button that the cook can click to view more information about that dish.

Relevant UI Sketches



3.2.8 View Responsible Menu

Description

Allows the cook to view the menu of dishes they are responsible for and select the dishes they will prepare today. If a dish has already been selected by another cook, the system will notify the cook that the item is unavailable for selection.

Trigger

Triggered when the cook wants to choose dishes for preparation.

Precondition

The cook is logged into their account and is on the menu page.

Postcondition

The cook successfully selects the dishes to prepare for the day. The system updates the dish's status and marks it as already chosen.

Basic Flow of Events

1. The cook navigates to the menu page and browses the list of available dishes.
2. The system displays each dish's information and current status:
 - Dish name

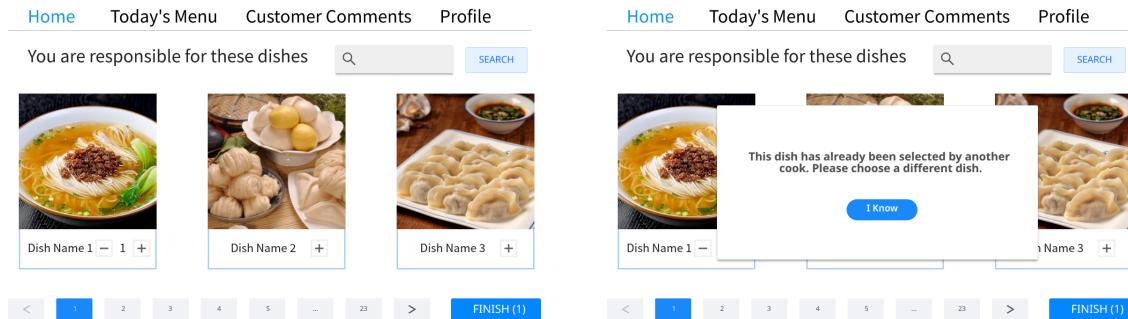
- Quantity

3. The cook selects an unchosen dish by clicking on it.

4. The system checks the dish's status:

- If the dish has not been chosen by another cook, the system records the selection and displays a success message.
- If the dish has been chosen by another cook, the system displays an error message, notifying that the dish is unavailable.

Relevant UI Sketches



3.3 Administrator

3.3.1 List Accounts

Description

Enables the administrator to view the account information of all users, including both custom and cook users. The administrator can click on a user's profile to access more detailed information.

Trigger

This use case is triggered when the administrator wants to view the account details of all users.

Preconditions

The administrator has logged into their account and is on the "User List" page.

Postconditions

The administrator successfully views the list of all users and can access detailed information for each user.

Basic Flow of Events

1. The administrator navigates to the “User List” page from the homepage.
2. The system displays the basic information for each user, including:
 - Name
 - Email
 - Profile Picture
3. The administrator selects a user and clicks to view detailed information for that user.

Relevant UI Sketches

The image contains three separate UI sketches:

- User List View:** A horizontal navigation bar with links for Home, Today's Menu, Accounts, and Profile. Below the bar is a search interface with a dropdown labeled "identification", a search input field with placeholder "input email or user name...", and a blue "SEARCH" button. A grid of five user cards is displayed, each showing a small profile picture and the text "User Name: XXX" and "Email: XXXXXXXX@163.com".
- User Profile Edit View:** A horizontal navigation bar with links for Home, Today's Menu, Accounts, and Profile. A "RETURN" button is at the top left. On the right, there is a large user profile picture of a woman with short brown hair. To the left of the picture are fields for "User Name: Blanca" (with a "Change" button), "Email: 12345678@163.com" (with a "Change" button), and "Password: *****" (with a "Change" button). Below these fields is an "Introduction" text area containing "xxx". At the bottom are "Save" and "Delete" buttons.
- Settings View:** A horizontal navigation bar with links for Home, Today's Menu, Customer Comments, and Profile. The "Profile" link is underlined. Below the bar are two tabs: "Personal Information" (selected) and "Settings". Under "Personal Information" is a "Change Theme" section featuring a collage of food items like a taco, burger, fries, and pancakes. Under "Settings" is a "Change Font" section featuring a grid of letters (A-Z) in various fonts, surrounded by cartoon animals and trees.

3.3.2 Delete Accounts

Description

Allows the administrator to view user information and choose to delete a specific user account to maintain the security and order of the platform.

Trigger Condition

Triggered when the administrator wishes to delete a user's account.

Preconditions

The administrator has logged into their account and is on the user list page where they can view the specific user's information.

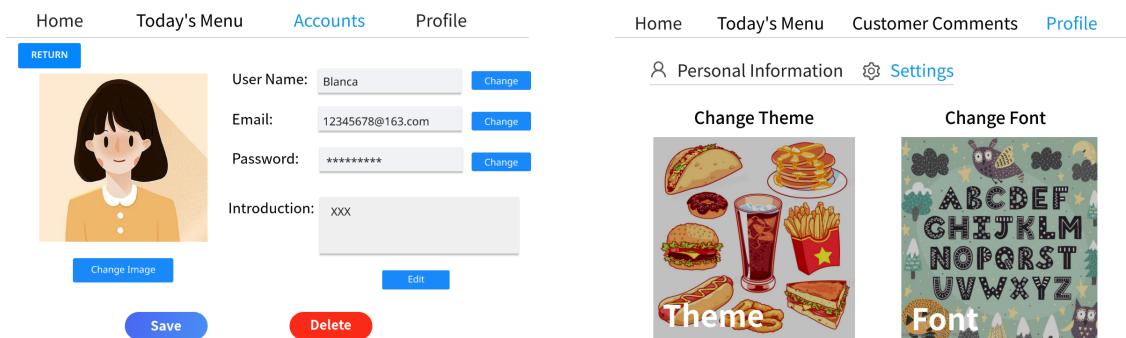
Postconditions

The specified user account is successfully deleted, and the system updates the user list, removing all information related to that user.

Basic Event Flow

1. The administrator selects a user on the user list page.
2. The system displays the detailed information of that user and provides a "Delete Account" option.
3. The administrator clicks the "Delete Account" button.
4. The system deletes the user's account and displays a success message.

Relevant UI Sketches



3.3.3 Modify Account

Description

Allows the administrator to view detailed information about users and make modifications directly when discovering information that affects the community environment, in order to maintain the security and order of the platform.

Trigger Condition

Triggered when the administrator wishes to modify the account information of a specific user.

Preconditions

The administrator is logged into their account and is viewing the information of a specific user on the user list page.

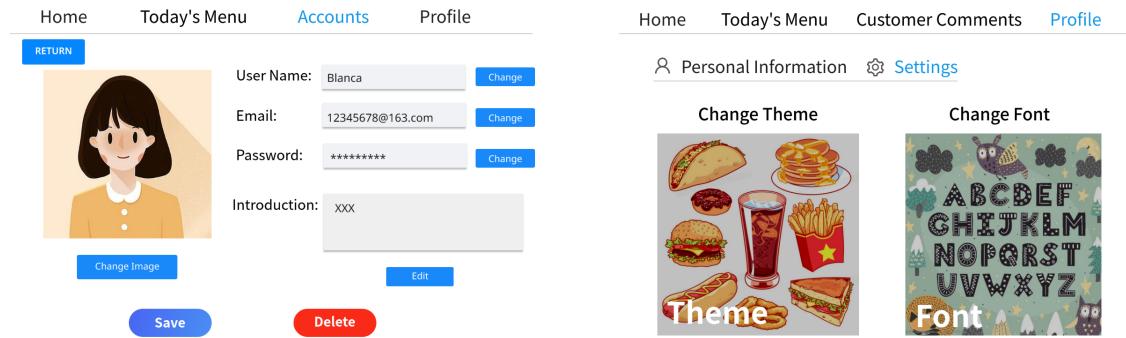
Postconditions

The specified user's account information is successfully modified, and the system updates the user information and displays a success message.

Basic Event Flow

1. The administrator selects a specific user from the user list page.
2. The system displays the detailed information of the selected user and provides a "Change" option.
3. The administrator modifies the necessary information in the form.
4. The administrator submits the modification request.
5. If valid, the system updates the user information and displays a success message.

Relevant UI Sketches



3.3.4 Add Menu

Description

Allows the administrator to upload new dishes, including category, name, price, image, and dish details, for cooks to choose from.

Trigger Condition

This use case is triggered when the administrator wants to add a new dish.

Preconditions

The administrator is logged into their account and is on the menu management page.

Postconditions

The new dish is successfully added to the system, and cooks can select it from the menu.

Basic Event Flow

1. The administrator selects the "Add New Dish" option on the menu management page.
2. The system displays an upload form, requesting the following information:
 - Category
 - Name
 - Price
 - Image
 - Dish details
3. The administrator fills in the required information and submits the form.
4. The system saves the new dish to the database and displays a success message.

Relevant UI Sketches

Home Today's Menu Accounts Profile

RETURN

Category: Staple Food

Dish Name: XXX

Price: 10 ¥

Dish Details: XXX

Save Create

3.3.5 Delete Menu

Description

Allows the administrator to delete a specific dish to ensure the accuracy and relevance of the menu.

Trigger Condition

Triggered when the administrator wants to remove a dish that is no longer offered.

Preconditions

The administrator is logged into their account and is on the menu management page.

Postconditions

The specified dish is successfully deleted, and the system updates the menu to reflect this change.

Relevant UI Sketches



Home Today's Menu Accounts Profile

RETURN

Category:	Staple Food	Change
Dish Name:	XXX	Change
Price:	10 ¥	Change
Dish Details:	XXX	Edit

Save

3.3.6 Edit Menu

Description

Allows the administrator to modify the details of a dish, including name, price, category, and description, to ensure the information is accurate and up-to-date.

Trigger Condition

Triggered when the administrator wants to change the information of a specific dish.

Preconditions

The administrator is logged into their account and is viewing a specific dish on the menu management page.

Postconditions

The information of the specified dish is successfully modified, and the system updates the menu to reflect the new information.

Relevant UI Sketches



Home Today's Menu Accounts Profile

RETURN

Category:	Staple Food	Change
Dish Name:	XXX	Change
Price:	10 ¥	Change
Dish Details:	XXX	Edit

Save

3.3.7 View all Menu

Description

Allows the administrator to view the detailed information of each dish in today's menu, including dish name, price, remaining quantity, and ordered quantity. The administrator can also choose to "delete" or "change" the specific information of the dish.

Trigger Condition

Triggered when the administrator wishes to view today's menu.

Preconditions

The administrator is logged into their account and on the today's menu page.

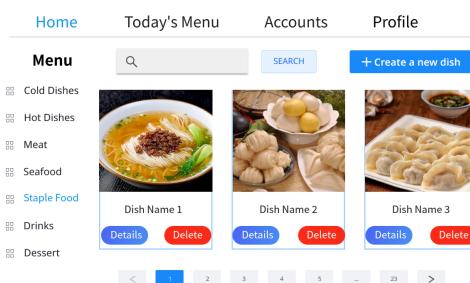
Postconditions

The administrator successfully views the detailed information of each dish in today's menu.

Basic Event Flow

1. The administrator navigates to the "Today's Menu" page from the homepage.
2. The system displays a list of all dishes in today's menu, including:
 - Dish Name
 - Price
 - Remaining Quantity
 - Ordered Quantity
3. The administrator selects a specific dish to view its detailed information.

Relevant UI Sketches



3.4 Unlogged User

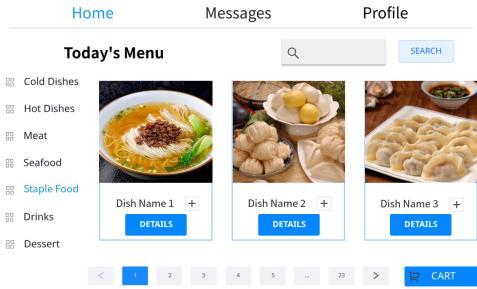
Description

Guest users can view today's menu and its detailed information, including dish names, prices, remaining quantities, and comments. However, they are unable to place orders, send comments, or add friends.

Trigger Condition

This functionality is triggered when a guest user visits the website and wishes to view the menu.

Relevant UI Sketches



4 Database Design

