Food delivery management system (Karen Urbano)

The proposed system is a food delivery management platform that connects the gastronomic offer of restaurants with consumers, aiming to address potential issues that may arise in such an application, such as customer dissatisfaction with the delivered food or delays in the delivery process.

The system allows consumers to view the offer from different restaurants, see dish details, rate restaurants, filter results, save favorites, add to the shopping cart, apply discount coupons, pay for orders, and track their order status. In addition, consumers can file a claim against a restaurant or delivery person, and confirm the status of their claim.

Restaurant owners can create a restaurant, manage their personal and restaurant information, publish and edit its menu, receive orders, view order details, cancel orders, view sales and profits, file a claim against a delivery person, choose their favorite delivery persons as well as block them.

Delivery persons can view nearby orders, choose a shipment, and view their shipment history and their earnings.

Customer service personnel is the person in charge of resolving conflicts between the parties involved, can view the details of the claims assigned to them, send notifications to users, and update the status of the claims.

The platform administrator can manage content related to users, restaurants, and dishes, manage categories and attributes, view graphic reports, view earnings by period and region, send notifications, and manage the status of claims made by users.

1. FUNCTIONS AND USES CASES

CONSUMER

Register/Login: the consumer can register with the consumer role and log in with their credentials

Manage your personal information: Consumers can save information on the platform such as basic data, location, telephone numbers, and credit cards, and set

preferences, such as preferred address and preferred means of payment. Also can change their password, email, phone, address, and status (unsubscribe).

Save preferences/restrictions: Consumers can establish what type of meals they prefer or the type of ingredients they do not want in their food, in this way the platform shows them the offer that meets their requirements.

See the offer: Consumers can see all the gastronomic offers offered by the different restaurants near their location.

View Dish Detail: Consumers can have a detailed description of a dish, including its ingredients and an estimated delivery time to their location.

See opinions: Consumers can see the opinions other consumers have left for a certain restaurant.

Rate restaurant: Consumers can rate the experience they have had being a customer of a certain restaurant.

Filter Results: Consumers can filter search results according to their preferences.

Save favorites: Consumers can mark a dish or a restaurant as a favorite.

Add to Shopping Cart: Consumers can add one or many dishes to the shopping cart that can generate orders to one or many restaurants.

Discount coupon: Consumers can obtain a discount coupon in a certain restaurant and use it during the purchase.

Pay purchase: Consumers can pay for their orders by different kinds of payment.

View order status: Consumers can see if their order has been dispatched and where it is on the way.

File a claim: Consumers can file a claim with the platform for the poor service of a restaurant or a delivery person.

Confirm claim status: Consumers can notify whether or not their claim has been completed satisfactorily.

RESTAURANT OWNER

Register on the platform: Restaurant owners can register and log in with the merchant role.

Manage their personal information: Restaurant owners can save information on the platform such as their basic data, location, telephone numbers, and ID. They can also change their password, email, phone, address, and status (unsubscribe).

Manage their restaurant information: Restaurant owners can create a restaurant, and add important information such as contact information, location, history, and business identification. They can also edit some of this information and inactivate the operation in the restaurant platform they created.

Manage their menu: Restaurant owners can publish dishes, as well as edit their description, price, and quantity available or change its status to inactivate a publication as long as it does not have pending orders for delivery.

Receive orders: Restaurant owners can receive orders from their customers.

View order information: Restaurant owners can see the list of orders that have been made to their restaurant, as well as detailed information on each order such as its status, delivery times, delivery person, and complaints if any.

Cancel an order: Restaurant owners can cancel an order if they have run out of stock.

Sales Dashboard: Restaurant owners can view detailed information on their sales and profits.

File a claim: Restaurant owners can file a complaint or claim against a delivery person.

Choose favorite couriers: Restaurant owners can choose the couriers who have provided the best services to give them priority when notifying when an order must be sent.

Block delivery drivers: Restaurant owners can decide not to use the services of a specific delivery driver.

ADMIN

Login: The administrator can log in with her credentials.

Change Password: The administrator can change your password.

Manage content: The administrator can create, edit and delete information related to users, restaurants, and dishes on the platform.

Manage Categories and Attributes: The administrator can create, edit and delete categories, subcategories, and attributes.

Reports: The administrator can see graphic pieces of all the information registered in the platform such as consumer trends, sales history, restaurants with a bad reputation, most sought-after dishes, total canceled orders, number of accounts created or deleted, and other reports of interest.

Earnings by Period: The administrator can view an earnings report categorized by periods and regions.

Send Notifications: The administrator can send notifications to the different types of users registered on the platform in a group or individually.

Claims status: The administrator can see the status and detail of all the claims made by the users.

DELIVERY PERSON

Registration: A delivery person can log in to the platform with the courier role.

Manage their personal information: A delivery person can save information on the platform such as their basic data, location, telephone numbers, and ID. They can also change their password, email, phone, address, and status (unsubscribe).

Nearby Orders: A delivery person can view orders near their location.

Assign a shipment: A delivery person can choose the shipment that they will make as long as they do not have any restrictions from the restaurant.

List of shipments made: A delivery person can see the history of the orders they have delivered.

Customer service

Login: A customer service person can log in with the credentials that have been assigned to them.

Claims detail: A customer service person has access to detailed information on the claims that have been assigned to them.

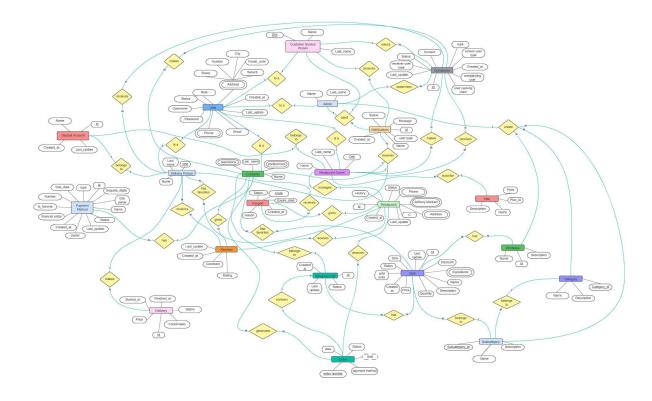
Report Claim Status: A customer service person can change the status of a claim.

2. DESIGN OF ENTITIES, RELATIONSHIPS AND THEIR ATTRIBUTES.

The relationships within the system involve a series of interactions between the different roles. Consumers can place orders with restaurants, and delivery persons can deliver them. The platform administrator manages the platform and the data of all users, and customer service personnel handle claims made by consumers or restaurants. Restaurant owners can choose their favorite couriers or block those with poor performance. All users have access to their respective dashboards where they can manage their information and interact with the platform. The administrator has overall control of the platform and is responsible for managing and overseeing all activities that take place.

Links to the detailed design created in lucid.app: https://lucid.app/documents/view/12ec13b7-3996-4bf5-9c6d-b49a18a9b6e1

https://lucid.app/publicSegments/view/35e55fd9-749d-421a-8c70-8adcef6c294b



3. ER DIAGRAM

Links to lucid.app:

https://lucid.app/publicSegments/view/b0f032b4-885c-4b3b-b0da-bc29701f16df

