

OC PIZZA'S

Database Specifications



Introduction:

An information technology measuring system built for OC Pizza to increase their productivity and streamline the lifecycle of orders. This includes a record system to process orders, handle payments, provide customer contact information, update order status, and finally manage the inventory system. This system will be implemented in all current and future branches of OC Pizza as their current system cannot efficiently handle the task.

Assumptions:

1. All basic ingredients are obtained through external sources i.e. wholesale food supply.
2. Only the base dough and sauce are made within the restaurant, rest are externally sourced.
3. All materials (pizza box, etc.) are obtained through external sources i.e. restaurant equipment supply.
4. Menus across all restaurants are uniform.
5. OC Pizza is an order online, order via phone or order through carry out restaurant. It is not a dine-in restaurant.
6. Customer can only edit orders via phone call and only if the status of the order is in "Preparing".

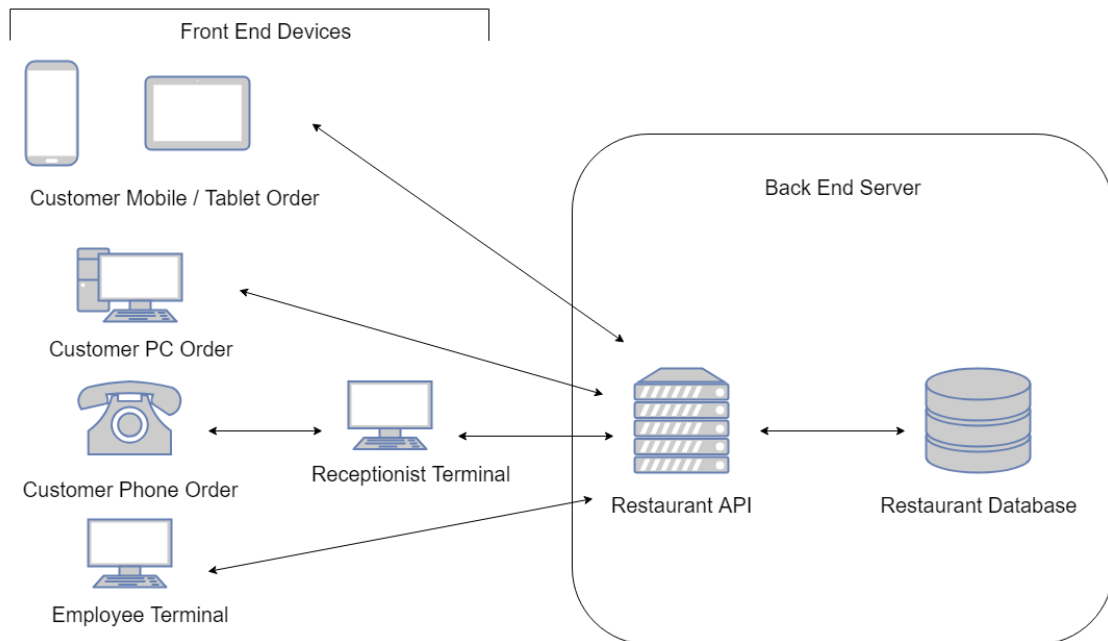
OC Pizza Functional Domain

OC Pizza's functional domain consist of multiple Front-End devices. This allows both customer and employee to interact with OC Pizza's Back-End server. This server stores information about the customer, orders, status of the order, employee whereabouts, menu items, recipes, and stock quantities. The automated API system takes all inputs and returns the output to the appropriate end user.

Example:

- 1) Customer:
 - Looks through OC Pizza's Menu with appropriate availability data from server
 - Orders through Website
 - OC Pizza's Server receives order
 - Sends order to Cook
 - Server deducts quantity from stock
- 2) Cook:
 - Prepares and Cooks order
 - Updates order as needed
 - Updates are send to the customer
 - Completes Order
- 3) Delivery Driver:
 - Receives order is complete
 - Receives customer's address
 - Delivers Pizza
 - Updates Customer that order is being delivered
 - Completes Delivery

OC Pizza Network Diagram



Technical Specifications

Smartphone / Tablet:

Iphone / Ipad: application written with Swift
Android: application written with Java

Website:

Written with HTML, CS3, and Javascript

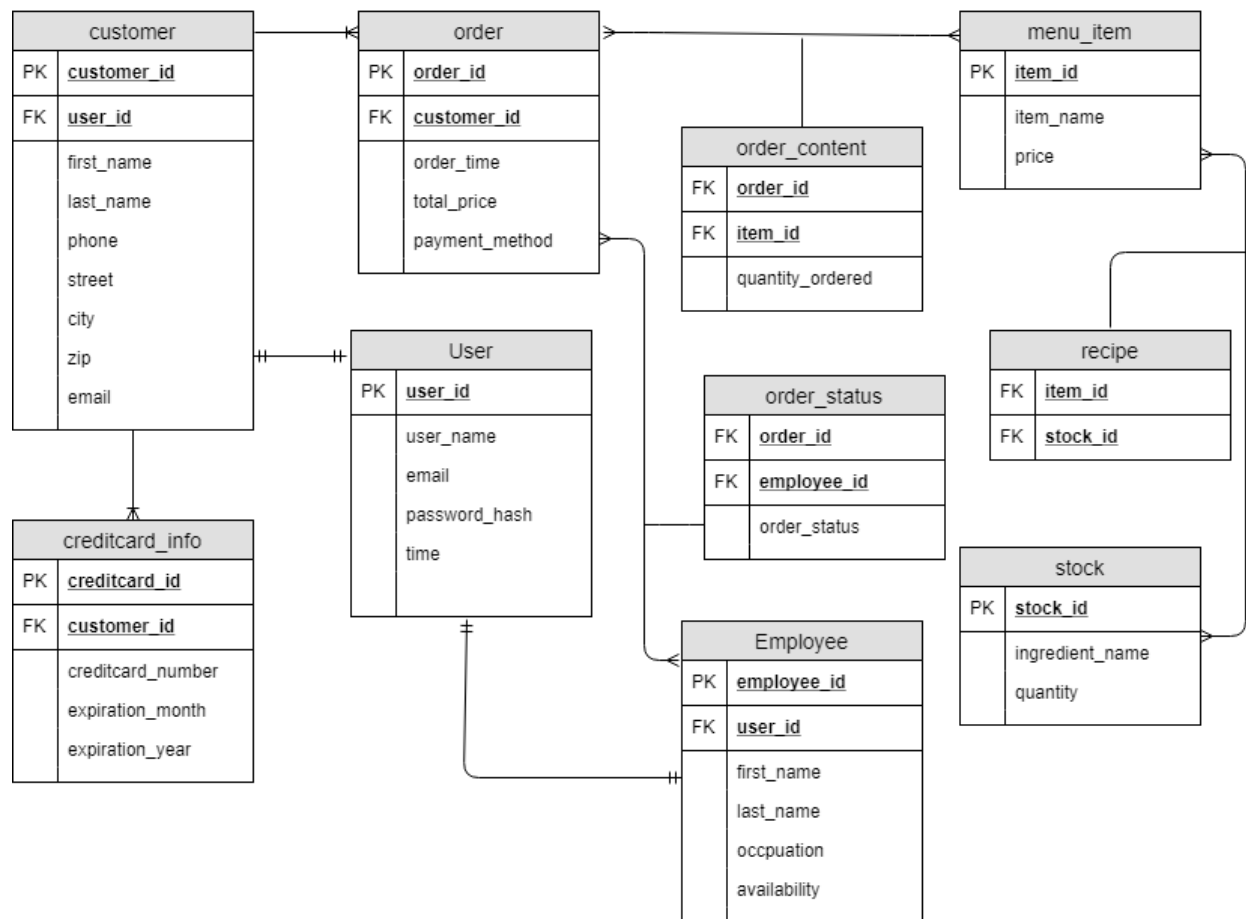
Application Programming Interface (API):

Written with Ruby on Rail

Database:

Written with mySQL

OC Pizza MPD



Glossary of Database

Primary Key = PK

Foreign Key = FK

customer:

Customer's contact information in order for deliveries to be made and to link each order to specific person.

customer_id (PK): unique number for each customer

first_name: first name

last_name: last name

phone: phone number

street: street address

city: city name

zip: zip code

email: email address

creditcard_info:

Credit card number with its expiration date linked to a customer.

creditcard_id (PK): unique number for each credit card account

customer_id (FK): connect each credit card account to a customer (customer table)

creditcard_number: credit card number

expiration_month: expiration month of credit card

01-12

expiration_year: expiration year of credit card

00-99

order:

Stores time and date of order, total price of the order, payment method and links it to the appropriate customer.

order_id (PK): unique number for each order

customer_id (FK): connect each order to a customer (customer table)

order_time: time of order

YYYY-MM-DD HR-MIN-SEC

total_price: total price of order

payment_method: method of payment of order

cash

credit card

order_status:

Stores the status of the order. Each status is linked by an order id and an employee id as the latter updates the order as each step.

order_id (FK):

employee_id (FK):

order_status:

Preparing

OC Pizza

Customer Modified Order
Cooking
Cooking Complete
Delivering
Deliver Complete
Customer Carry Out

employee:

Stores employee information, occupation, and their availability. This includes if they are in the store, delivering or on standby, and if they are working on that day or not.

employee_id (PK):

first_name: first name of employee

last_name: last name

occupation: job title

cook

receptionist

driver

manager

availability: if they are in for work, out for delivery

in store

n/a: not available

delivering

standby

order_content:

Contains the items and their quantity in each order.

order_id (FK):

item_id (FK):

quantity_order:

menu_item:

Contains each item's title and its price.

item_id (PK):

item_name:

price:

recipe:

Contains all of the ingredients for each menu item.

item_id (FK):

stock_id (FK):

stock:

Contains the name and inventory for each base item.

stock_id (PK):

ingredient_name

quantity

OC Pizza

user:

Contains login information for both customers and employees.

user_id (PK):

user_name:

email:

password_hash:

login_time: