DS 5110: Project Presentation Restaurant Management System

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INTRODUCTION

Our application automates the day-to-day activity of a restaurant. Customers have the convenience of browsing through the restaurant's menu, where they can explore a variety of food options, each accompanied by its respective price. Following this, customers can effortlessly select their desired items from the menu and seamlessly incorporate them into their order. In addition to placing orders, customers are provided with the option to reserve tables at the restaurant or enlist themselves in a reservation waiting list, enhancing their overall dining experience.

Meanwhile, the chefs within the establishment have the capability to monitor the current queue of orders. Once a dish is prepared, they can promptly update the order status to signify its readiness for serving.

For those overseeing the restaurant, such as managers, access to pertinent statistics is facilitated. This includes insights into weekly sales performance.This comprehensive system ensures a streamlined and efficient operation within the restaurant, catering to both customer needs and managerial oversight.

Key Features

- **User-Friendly Customer Interface:** Upon successful login, customers gain access to a user-friendly interface that allows them to seamlessly browse through the restaurant's menu. Our system provides detailed information about each food item, including corresponding prices.
- **Effortless Order Placement:** Customers have the flexibility to select items from the menu, adding them to their order effortlessly.
- **Table Reservations and Waiting List:** Customers can reserve tables at the restaurant, ensuring a smooth and organized dining experience. Additionally, for those times when the restaurant is fully booked, our system provides a reservation waiting list, optimizing customer seating arrangements.

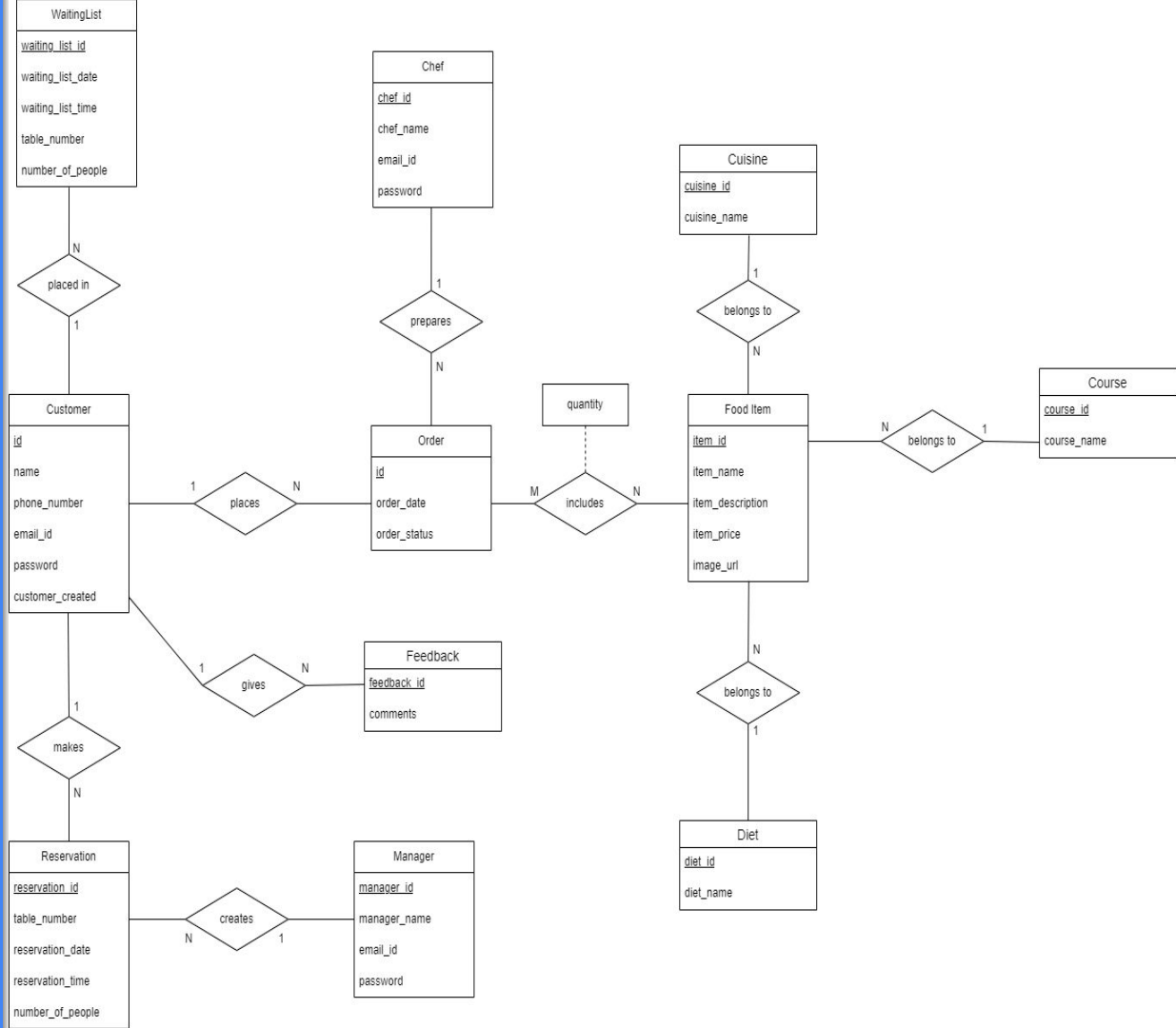
Key Features

- **Order Management for Chefs:** The system empowers chefs to efficiently manage the current queue of orders.
- **Insightful Statistics for Managers:** Restaurant managers gain access to valuable insights through our system. This includes weekly sales reports.
- **Feedback:** Customers are also encouraged to share their experiences through a user-friendly feedback feature. Once a customer has submitted feedback, these reviews are dynamically displayed on the index page for everyone to see before logging in.

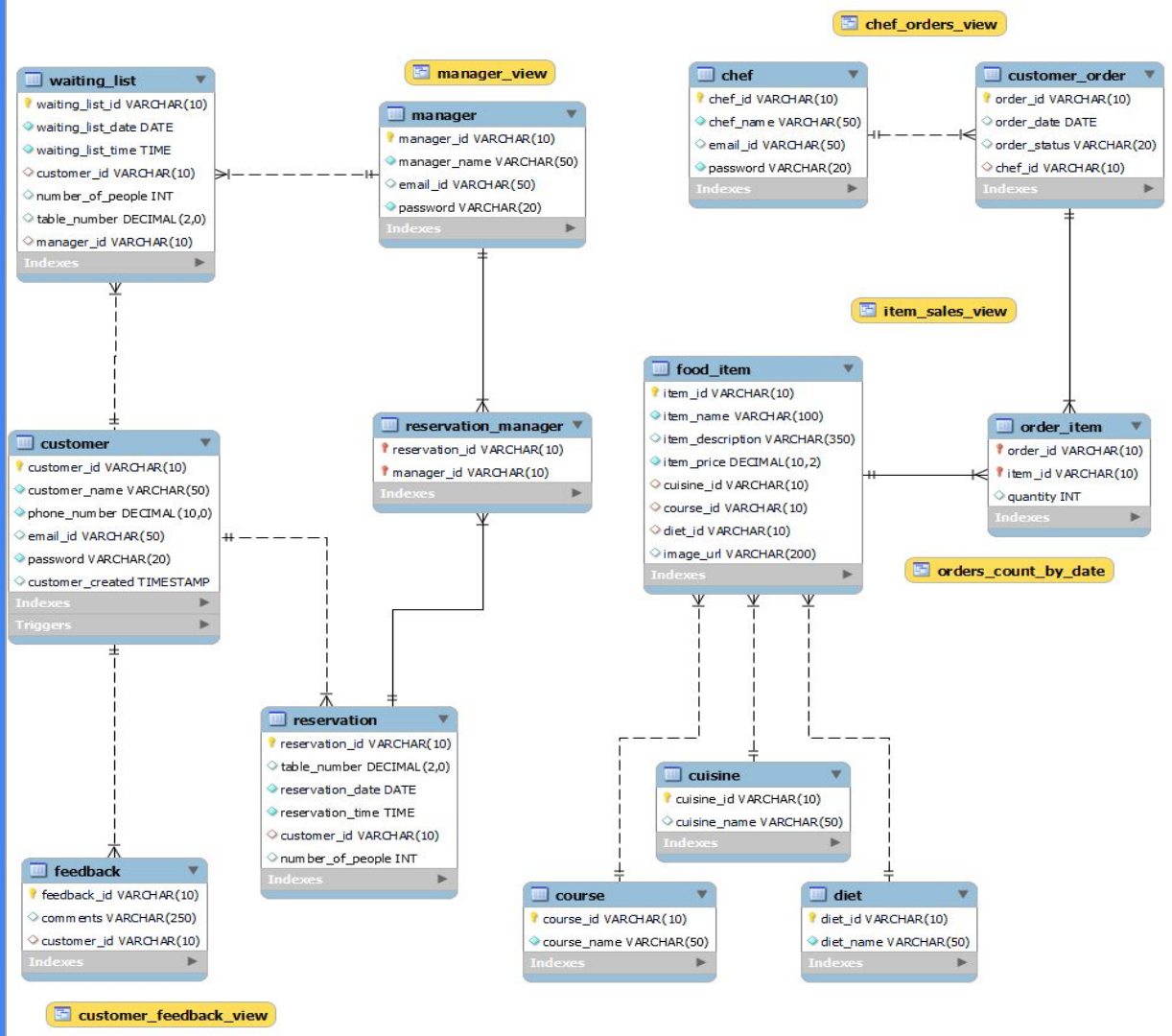
TECHNICAL DESCRIPTION

- Database – MySQL
- Database Application – MySQL Workbench
- Server – Flask
- Host Language – Python
- User Interface – HTML, CSS.

ER Diagram


WaitingList
waiting_list_id
waiting_list_date
waiting_list_time
table_number
number_of_people
placed in
Chef
chef_id
chef_name
email_id
password
prepares
Cuisine
cuisine_id
cuisine_name
belongs to
Customer
id
name
phone_number
email_id
password
customer_created
places
Order
id
order_date
order_status
quantity
includes
Food Item
item_id
item_name
item_description
item_price
image_url
belongs to
Course
course_id
course_name
gives
Feedback
feedback_id
comments
makes
belongs to
Reservation
reservation_id
table_number
reservation_date
reservation_time
number_of_people
creates
Manager
manager_id
manager_name
email_id
password
Diet
diet_id
diet_name

Schema Diagram



THANK YOU!