CS6360.001 DATABASE DESIGN

PROJECT TITLE: DATABASE SYSTEM FOR UBER EATS

TEAM NUMBER: Uber Eats – T5

TEAM MEMBERS

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Project Description

Uber eats is an online platform that provides the facility of ordering food from various restaurants that are within a few miles' radius of the user location with a minimal delivery fee.

Functional Requirements

a. **Customer**
- A person should be able to register on the website using his email and phone number.
- A registered user should be able to set his location and search for restaurants within few miles' radius.
- A registered user should be able to choose from list of restaurants and order items from them.
- A registered user should be able to contact restaurant and delivery partner between the time when order is confirmed and yet to be delivered.
- A registered user should be able to create support request and get help regarding his order.
- A registered user should be able to rate the items from the restaurants he ordered from.
- A registered user should be able to rate the delivery partner who delivered the order.
- *A registered user should be able to register as a UberOne member.*
- *A customer must be able to add items into a cart.*
- *A customer should be able to add items from different restaurants into different carts implicitly.*

b. **Restaurant**
- A restaurant should be able to accept orders and provide order confirmation based on item availability.
- A restaurant should update the order status like preparing, waiting for delivery partner, picked up, etc.
- A restaurant should have the menu with items listed along with description and price as per the availability.

c. **Restaurant Manager**
- A manager should be responsible for updating the restaurant details with Uber eats like address, contact number, operational times, etc.
- A manager should also be responsible for timely updates of the menu based on the time of the day.

d. **Delivery Partner**
- A person with a valid driving license can work as a delivery partner with Uber eats.
- A person gets a percentage of the order amount(salary), based on his rating and number of deliveries made.
- A delivery partner can deliver complete order or only a part of the order based on the restaurant's instructions.

e. **Support Agent**
- A support agent is responsible for handling the support requests raised by the customers and providing resolutions.

f. **Support Request**
- A support request must be served by support agents and should have information like description, severity, date the request is raised.

g. **Order**
- *An order must be placed from the items in the cart.*
- *An order should be from a single restaurant.*
- An order must be uniquely identified by the id and should have the items ordered along with order payment details and any details if applied.
- Order status can be updated by the restaurant during food prep, order readiness, as well as the delivery partner once picked up and delivered.
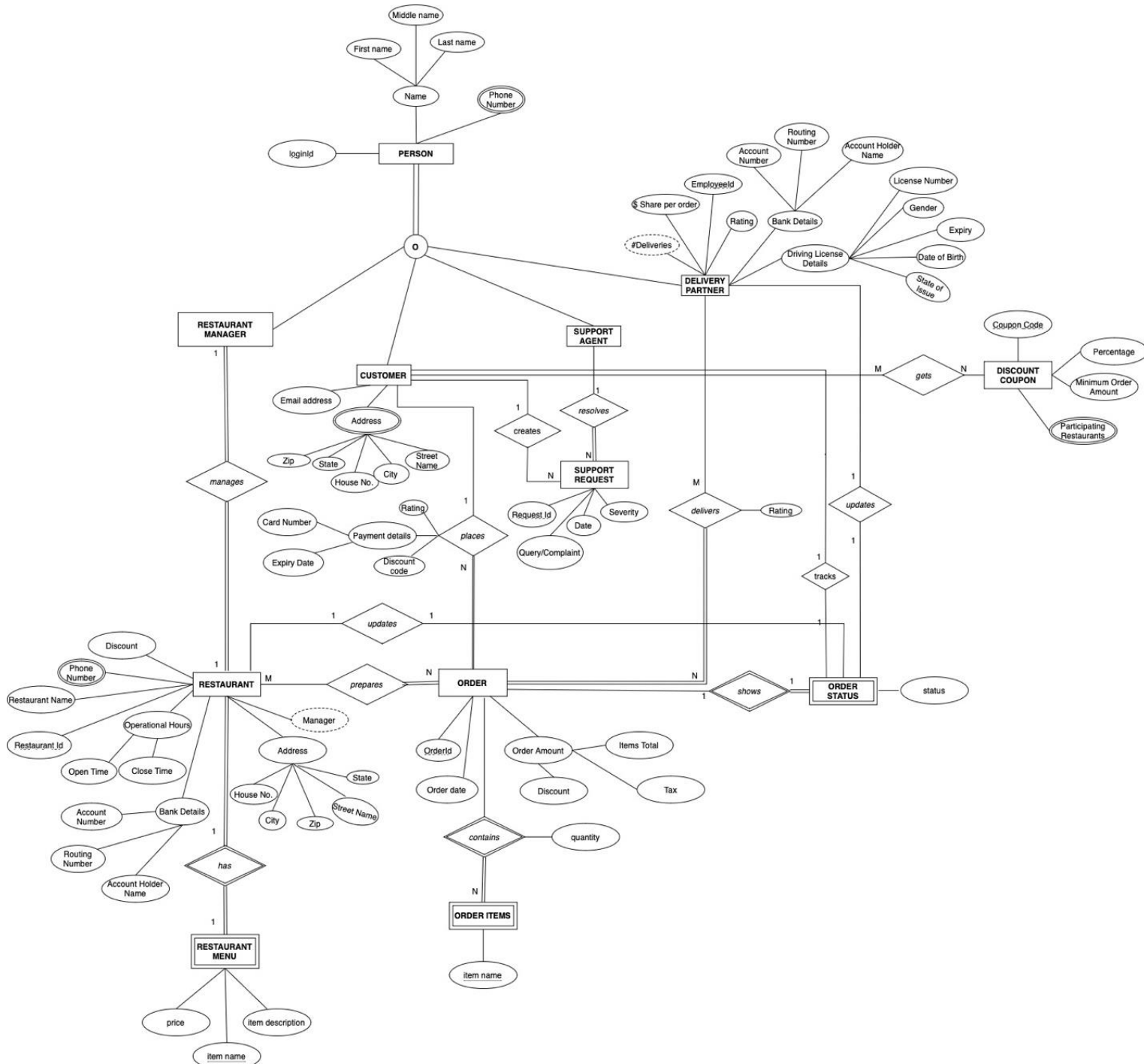- Order can be tracked by customers until it is delivered.

h. **Discount Coupon**
- A customer should be able to use one discount code per order if it is applicable during checkout.
- A customer can have M number of coupons for his account.
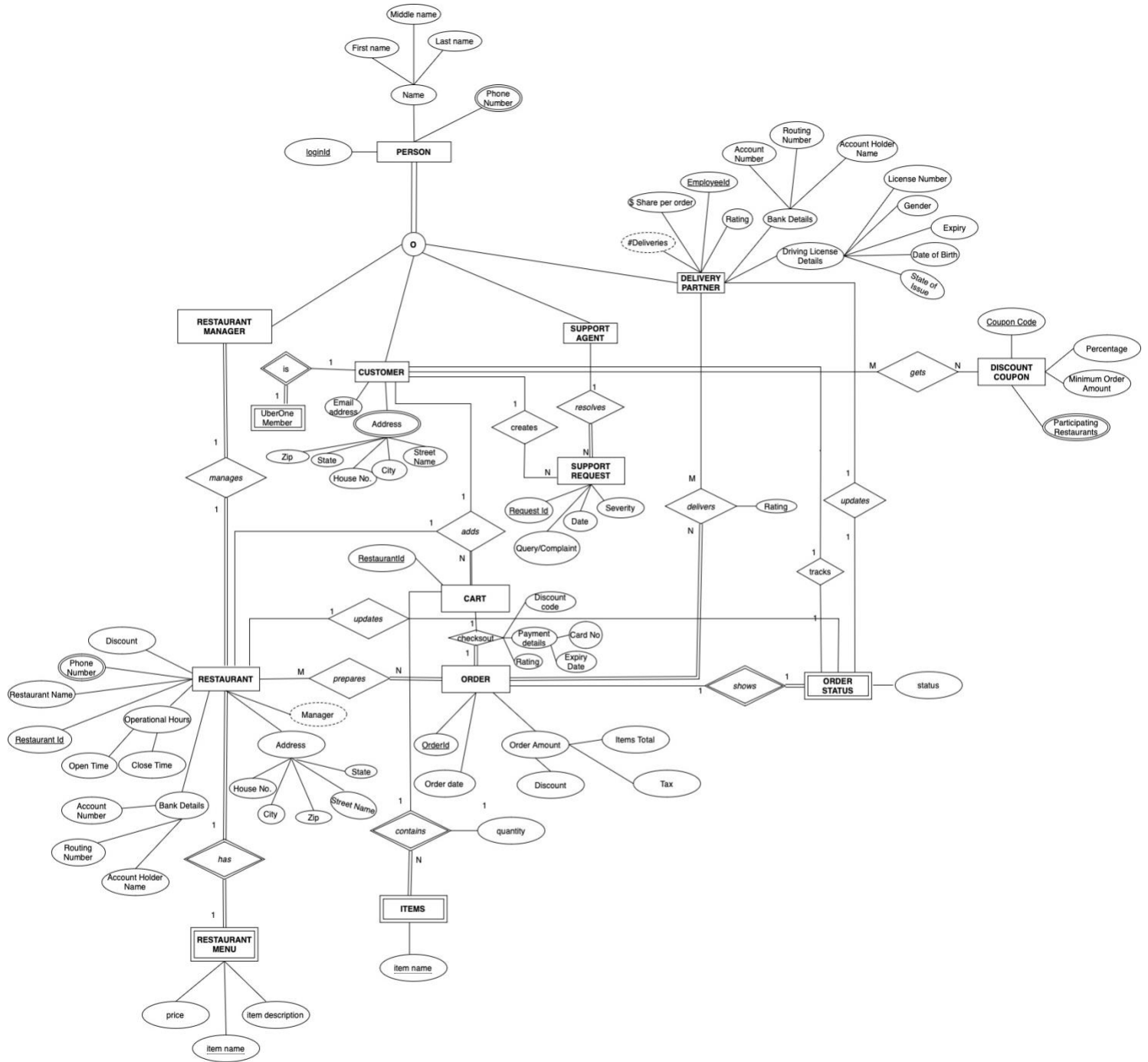- A discount coupon can be applied to N number of user accounts.

Assumptions
1. Only registered users can place an order on the website.
2. A user can order food from several restaurants in a single order.
3. A single order can be delivered in parts by multiple delivery partners.
4. A support agent can handle multiple requests at a time, but a single request is handled by only one support agent.
5. Each restaurant branch is identified by a unique id and has one manager for each branch

V1 of ER diagram

ER diagram for Uber Eats

Text

V2 of ER diagram

ER diagram for Uber Eats

Text