COMM 335 Case Dev

Section 201, Group 13

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Case Narrative

UberEATS is an online platform to order food from a wide range of restaurants to be delivered to their customers. A robust database is required to keep track of the large quantity and variety of deliveries.

Account Management

To login or register, customers are required to provide an email address and a phone number. The registration process also requires a name and a language of communication.

Customers can choose to save up to two delivery addresses in the app and must have at least one primary payment option to use the UberEATS platform, which can be a credit card or debit card. Multiple gift cards can also be added to the payment options in one account.

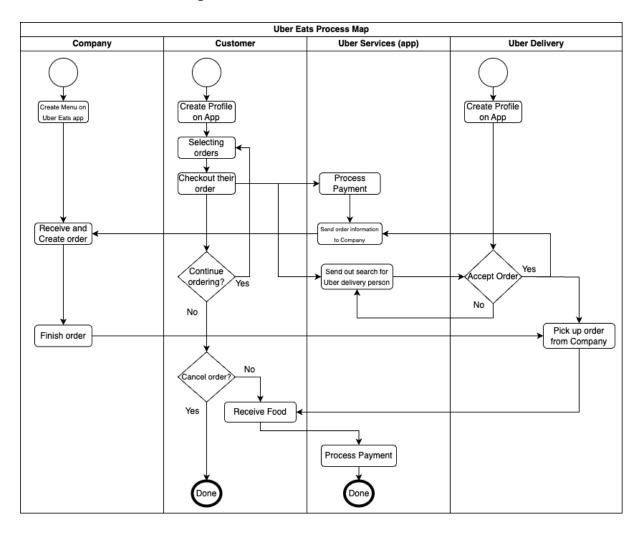
Ordering

Customers can select menu items with their preferences for customizable items to an order. One order can contain multiple menu items from the same restaurant but not from multiple restaurants. If someone would like to order from multiple restaurants, they can place another order from a different restaurant while their current order is being processed.

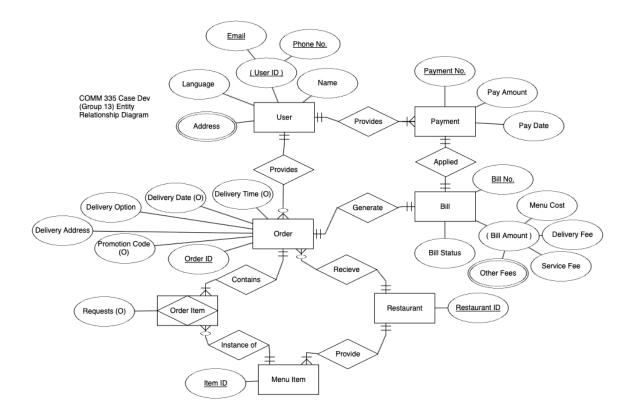
To place the order, they must provide a delivery address, delivery option, and payment method, and can add a promotion code if desired. There are two delivery options: "Deliver as soon as possible" or "Scheduled," with the latter option requiring a date and time for delivery. Special delivery instructions can be included if so desired

Generally, the total cost of an UberEATS order will include the ordered menu cost, a delivery fee, a service fee, and other applicable fees, such as a busy area fee and priority fee. All these will be specified in a customer receipt, which may also include discounts from promotions. The receipts of all past orders for a specific user will always be accessible.

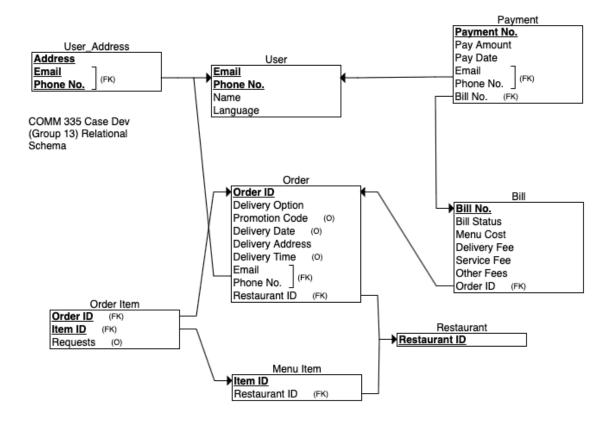
Business Process Map



Entity Relationship Diagram



Relational Schema



SQL Code

```
CREATE TABLE User
 Name VARCHAR(100) NOT NULL,
 Language_ 100 NOT NULL,
 Email VARCHAR (400) NOT NULL,
 Phone No. VARCHAR (20) NOT NULL,
 PRIMARY KEY (Email, Phone No.)
);
CREATE TABLE Restaurant
 Restaurant ID VARCHAR(10) NOT NULL,
 PRIMARY KEY (Restaurant ID)
);
CREATE TABLE Menu Item
 Item ID VARCHAR(10) NOT NULL,
 Restaurant ID VARCHAR (10) NOT NULL,
 PRIMARY KEY (Item ID),
 FOREIGN KEY (Restaurant ID) REFERENCES Restaurant (Restaurant ID)
);
CREATE TABLE User Address
 Address VARCHAR (200) NOT NULL,
 Email VARCHAR (400) NOT NULL,
 Phone No. VARCHAR (20) NOT NULL,
 PRIMARY KEY (Address, Email, Phone No.),
 FOREIGN KEY (Email, Phone No.) REFERENCES User (Email, Phone No.)
);
CREATE TABLE Order
 Delivery Option 30 NOT NULL,
 Promotion Code VARCHAR(15),
 Delivery Date DATE,
 Delivery_Address VARCHAR(200) NOT NULL,
 Delivery_Time 7,
 Order ID VARCHAR (10) NOT NULL,
 Email VARCHAR (400) NOT NULL,
 Phone No. VARCHAR (20) NOT NULL,
 Restaurant ID VARCHAR(10) NOT NULL,
 PRIMARY KEY (Order ID),
  FOREIGN KEY (Email, Phone No.) REFERENCES User (Email, Phone No.),
```

```
FOREIGN KEY (Restaurant ID) REFERENCES Restaurant (Restaurant ID)
);
CREATE TABLE Bill
 Bill Status 100 NOT NULL,
 Menu Cost NUMERIC (10, 2) NOT NULL,
 Delivery Fee NUMERIC(10, 2) NOT NULL,
 Service Fee NUMERIC(10, 2) NOT NULL,
 Other Fees NUMERIC(10, 2) NOT NULL,
 Bill No. INT NOT NULL,
 Order_ID VARCHAR(10) NOT NULL,
 PRIMARY KEY (Bill No.),
 FOREIGN KEY (Order ID) REFERENCES Order (Order ID)
);
CREATE TABLE Order Item
 Requests VARCHAR(1000),
 Order ID VARCHAR (10) NOT NULL,
 Item ID VARCHAR(10) NOT NULL,
 PRIMARY KEY (Order ID, Item ID),
 FOREIGN KEY (Order ID) REFERENCES Order (Order ID),
 FOREIGN KEY (Item ID) REFERENCES Menu Item(Item ID)
);
CREATE TABLE Payment
 Payment No. INT NOT NULL,
 Pay Amount NUMERIC (10, 2) NOT NULL,
 Pay Date DATE NOT NULL,
 Email VARCHAR (400) NOT NULL,
 Phone No. VARCHAR (20) NOT NULL,
 Bill_No. INT NOT NULL,
 PRIMARY KEY (Payment_No.),
 FOREIGN KEY (Email, Phone No.) REFERENCES User (Email, Phone No.),
 FOREIGN KEY (Bill No.) REFERENCES Bill (Bill No.)
);
```