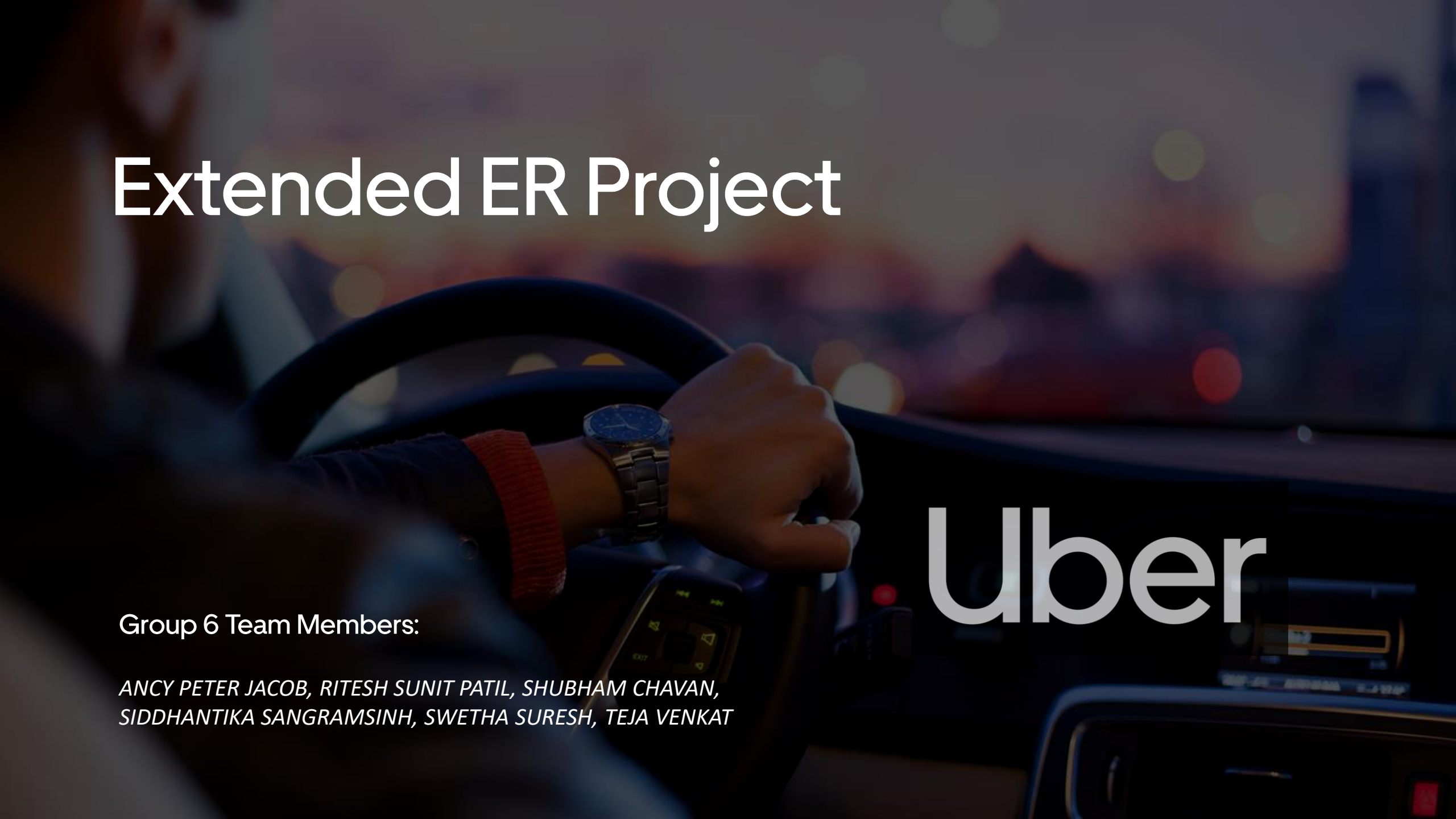
Extended ER Project



Group 6 Team Members:

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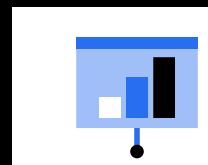
Introduction

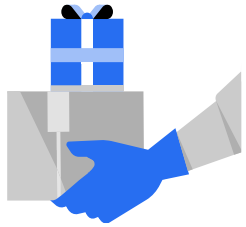
Uber Technologies, the largest ride-sharing firm in the world, was established in 2009 and expanded swiftly to become the most valuable startup in the world.

Uber is one of the most intriguing businesses to have emerged in recent years due to its disruptive technology, rapid expansion, and ongoing controversy.

In 2022, Uber had 122 million monthly active users worldwide and generated an average of 21 million trips per day. In the United States, as of May 2022, Uber had a 72% market share for ride-sharing and a 27% market share for food delivery

Uber have operations in approximately 72 countries and 10,500 cities as of December 31, 2021.





Uber

Services provided by Uber

- Uber Ride
- Uber Eats
- Uber Connect
- Uber Freight

Company Goals

To deliver all potential transportation and logistical services where it operates.

To overtake the taxi business by offering the most affordable, simple rides worldwide.

Set analytical standards to aid the organization in expanding into new areas and offering new products.

To integrate the provision of goods and services on demand.

Plan how to build a pool of new partners for market expansion.

Recognize limitations to make innovative and improved strategic decisions

Uber Ride

- Uber is a transportation app developed to simplify smartphone taxi ordering. Users can request a variety of low-cost to high-end luxury transportation services through the Uber app.
- There are gaps in public transportation, despite cities best efforts. Uber is a tech-driven answer for the issue of transportation.

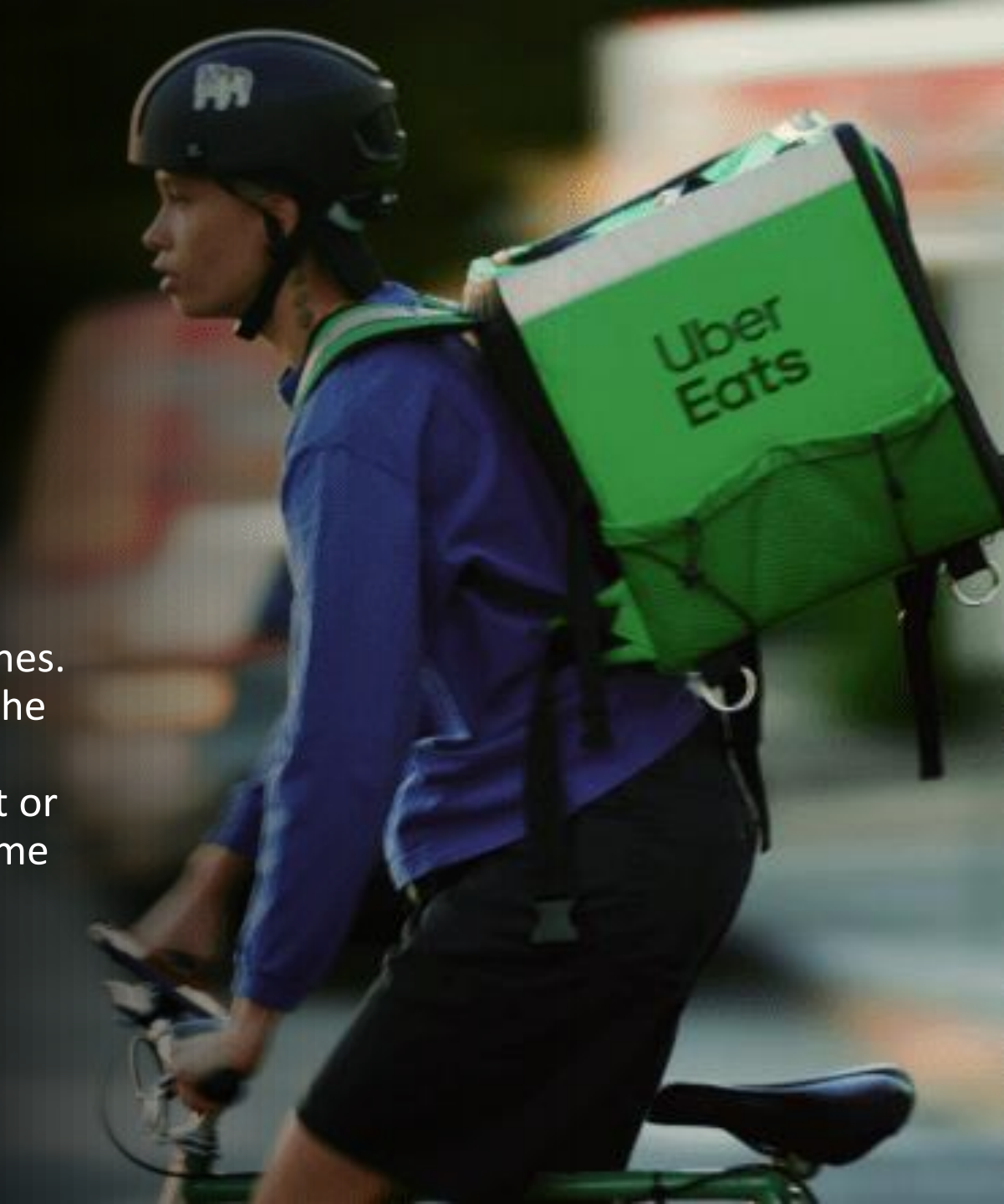
Services provided by Uber

UberX	UberXL	Uber Transit	Uber Luxury	Uber Pool
Uber Green	Uber Black	Uber Black SUV	Uber WAV	Uber Taxi
Uber Flash	Uber Auto	Scooter Options	Uber Eats	

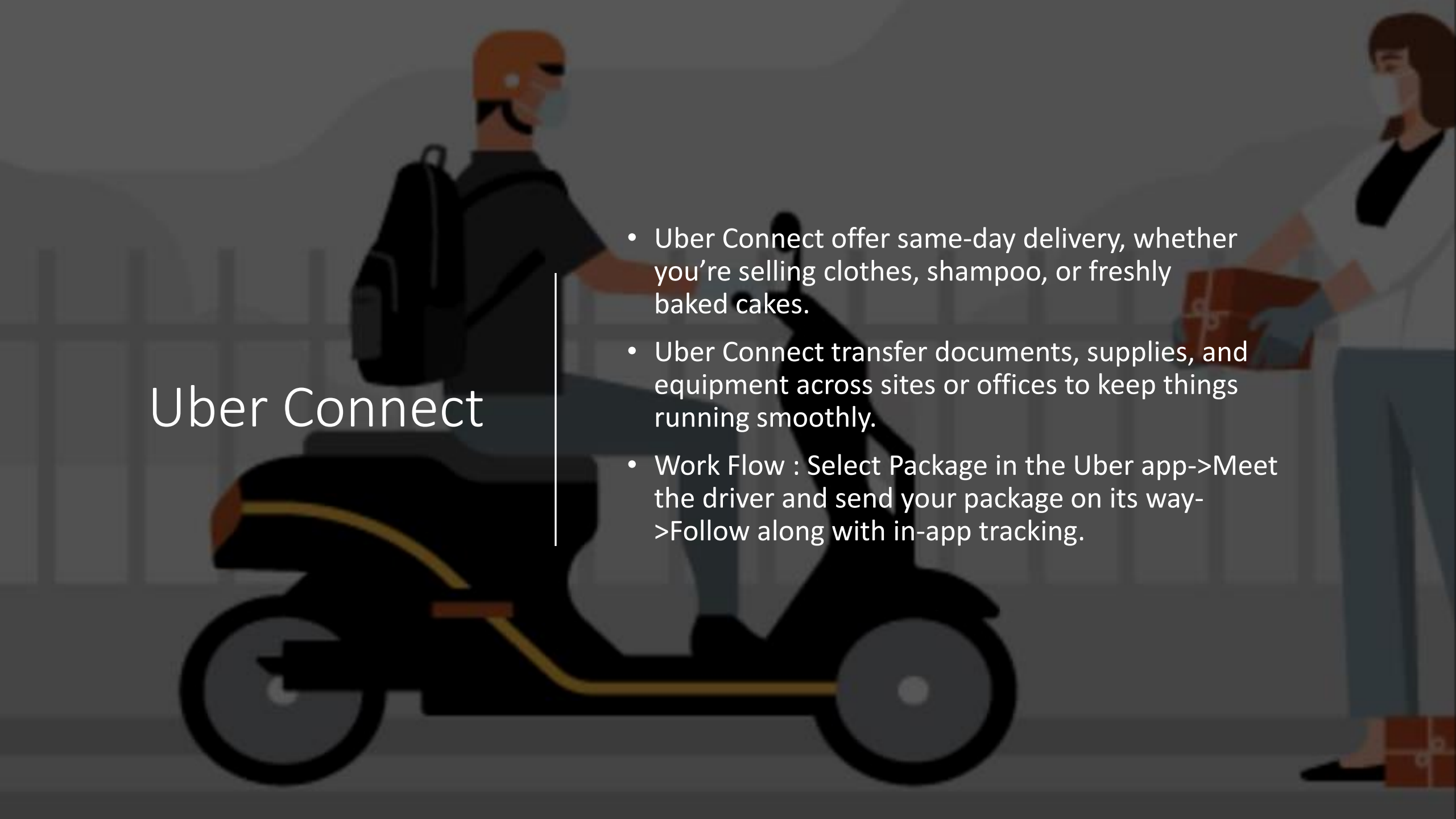
Uber Eats

Uber Eats operates on a model that includes the following steps:

- The customer searches the names of Restaurants/Dishes.
- The customer selects the restaurant/dish and places the order.
- Uber Eats driver pick up the order from the restaurant or the customer can use the pickup option himself to come and pick up in person.
- Order fulfillment and payment collection.



Uber Connect



- Uber Connect offer same-day delivery, whether you’re selling clothes, shampoo, or freshly baked cakes.
- Uber Connect transfer documents, supplies, and equipment across sites or offices to keep things running smoothly.
- Work Flow : Select Package in the Uber app->Meet the driver and send your package on its way->Follow along with in-app tracking.

Diagram- Legends

Vehicle

Payment

Customer

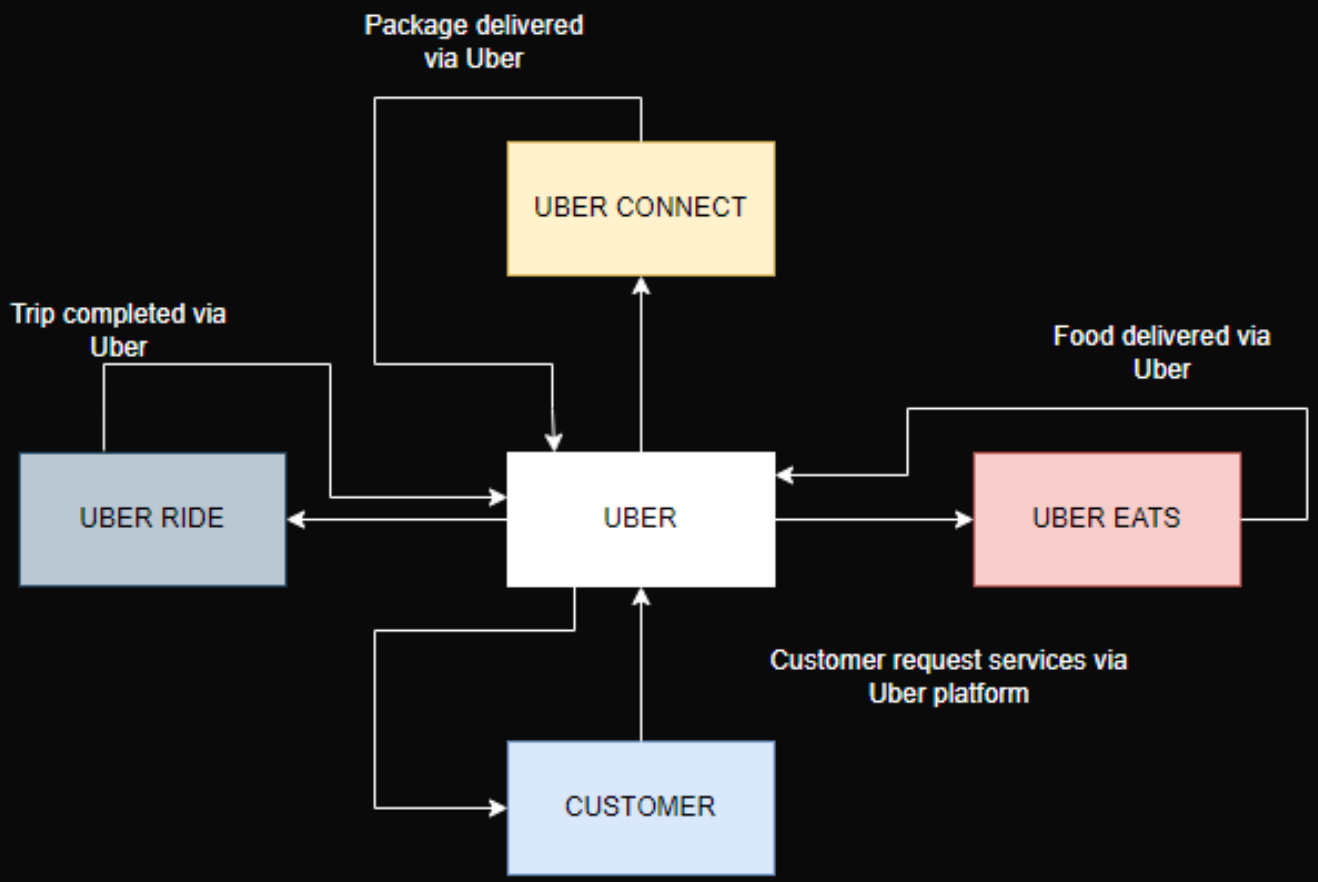
Device

UberEats

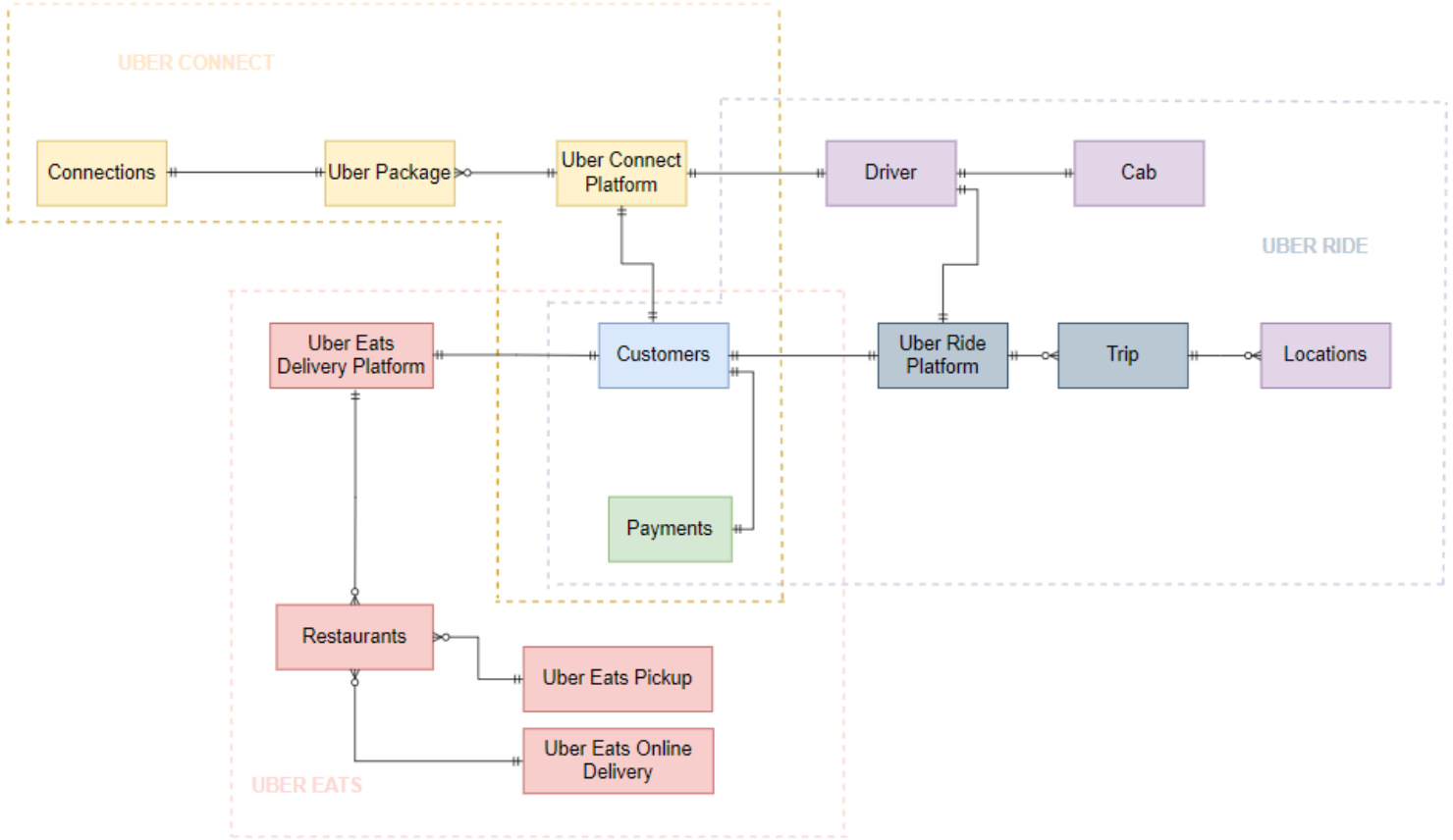
UberRide

UberConnect

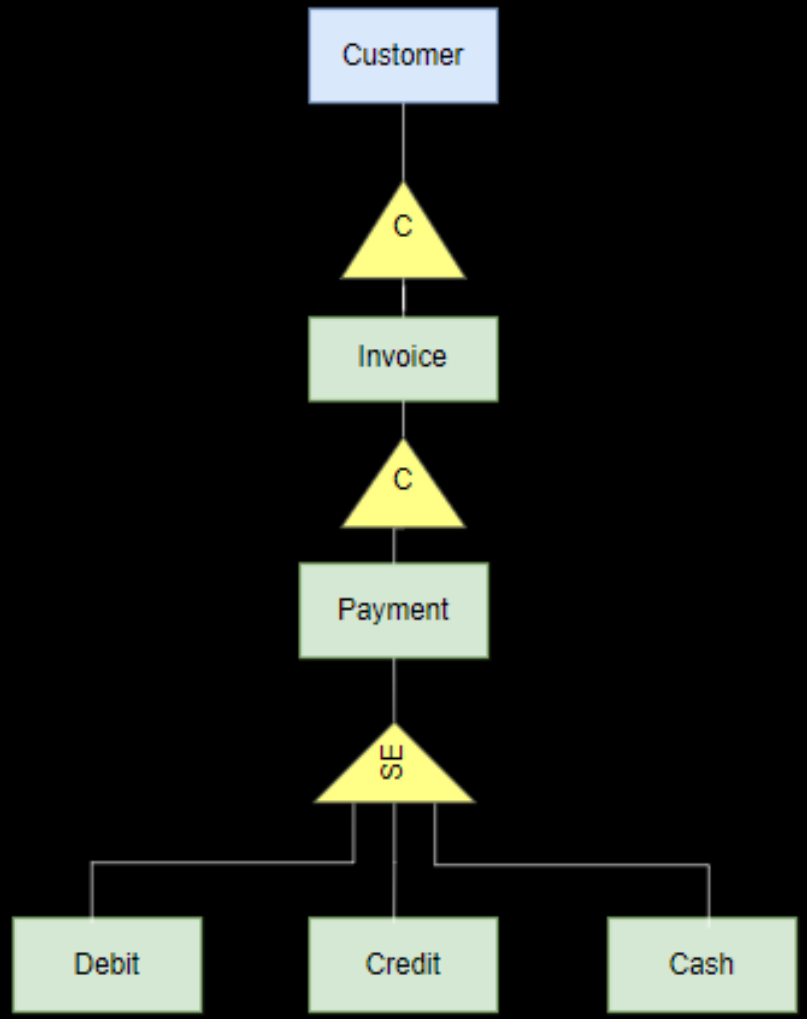
High-level Workflow



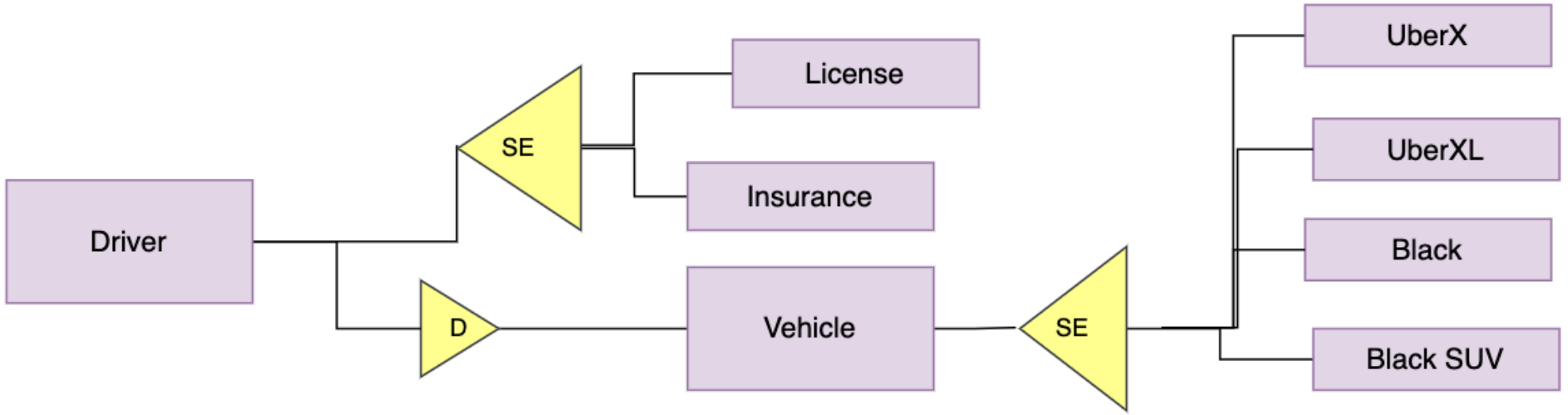
Consolidated ER diagram -Uber



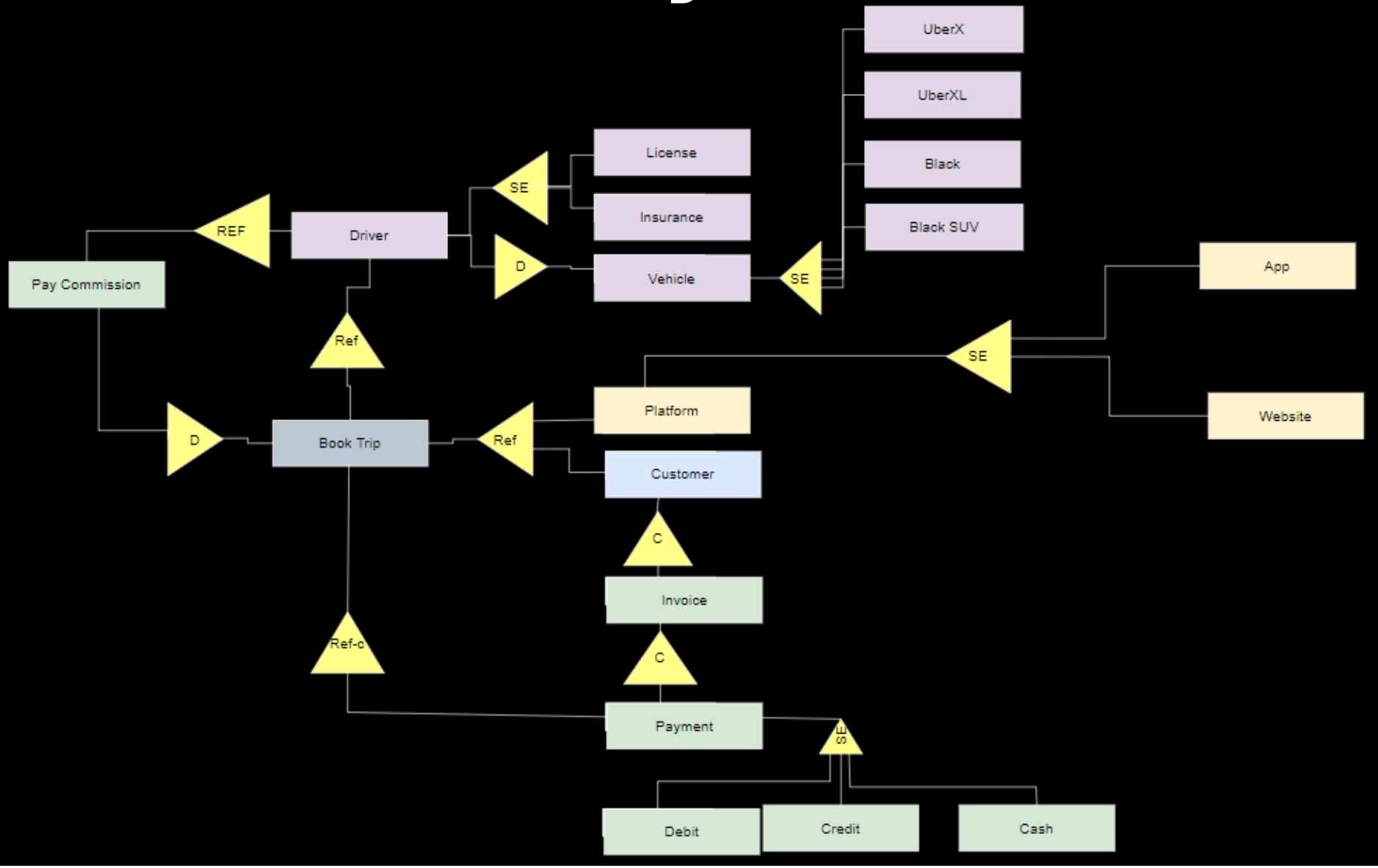
Customer and Payment entity-Uber Ride



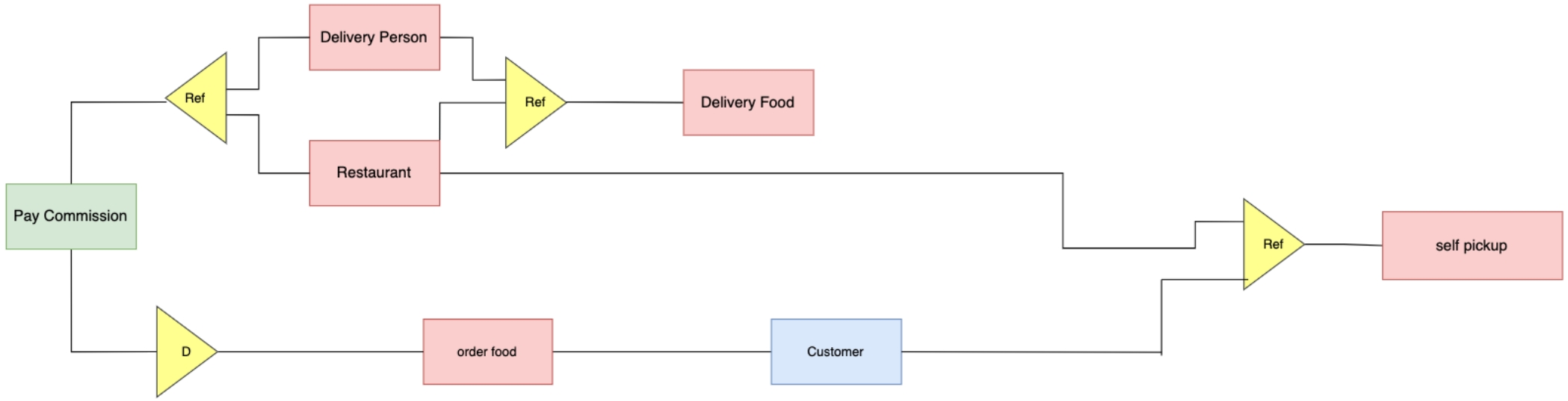
Driver Entity and their subtypes- Uber Ride



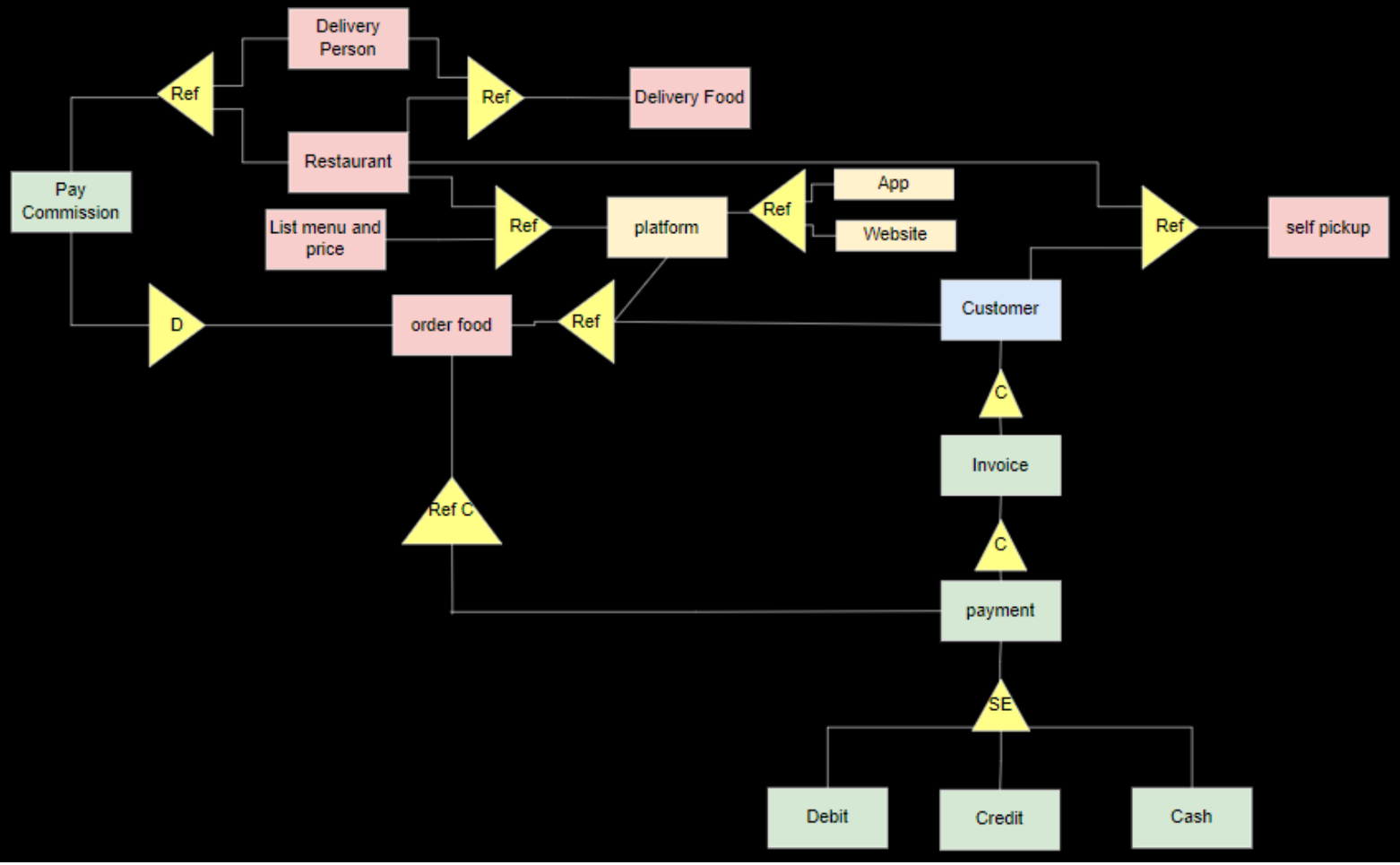
Information Modeling- Uber Ride



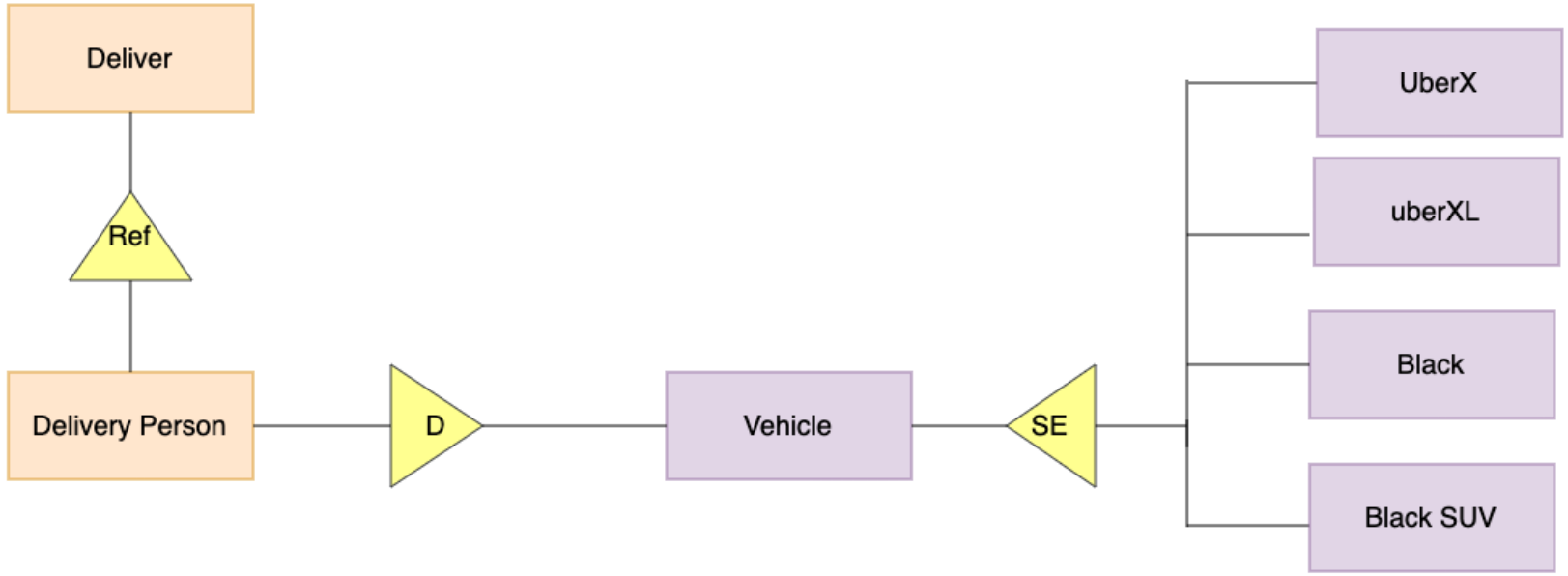
Restaurant Entity- Uber Eats



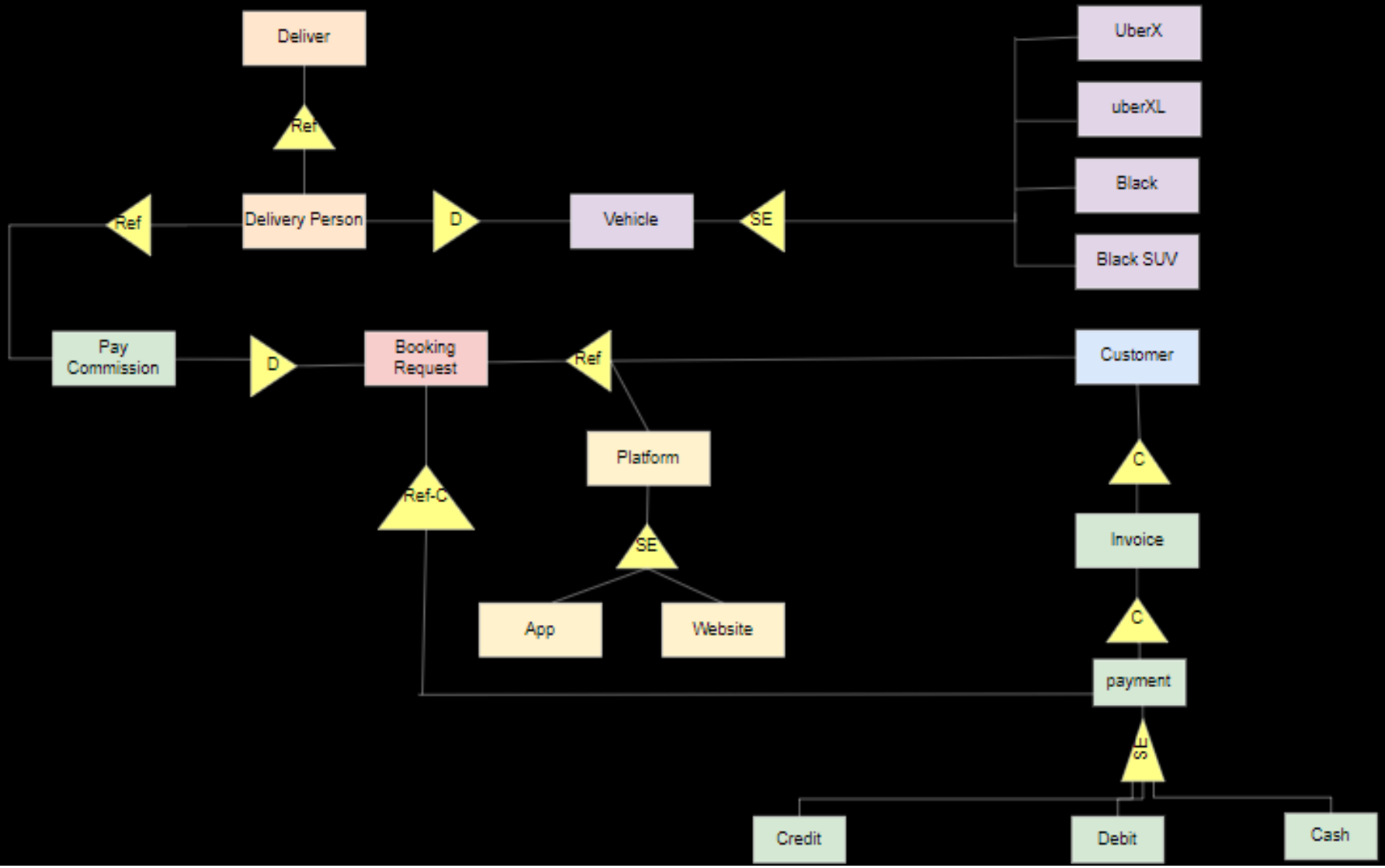
Information modeling - Uber Eats



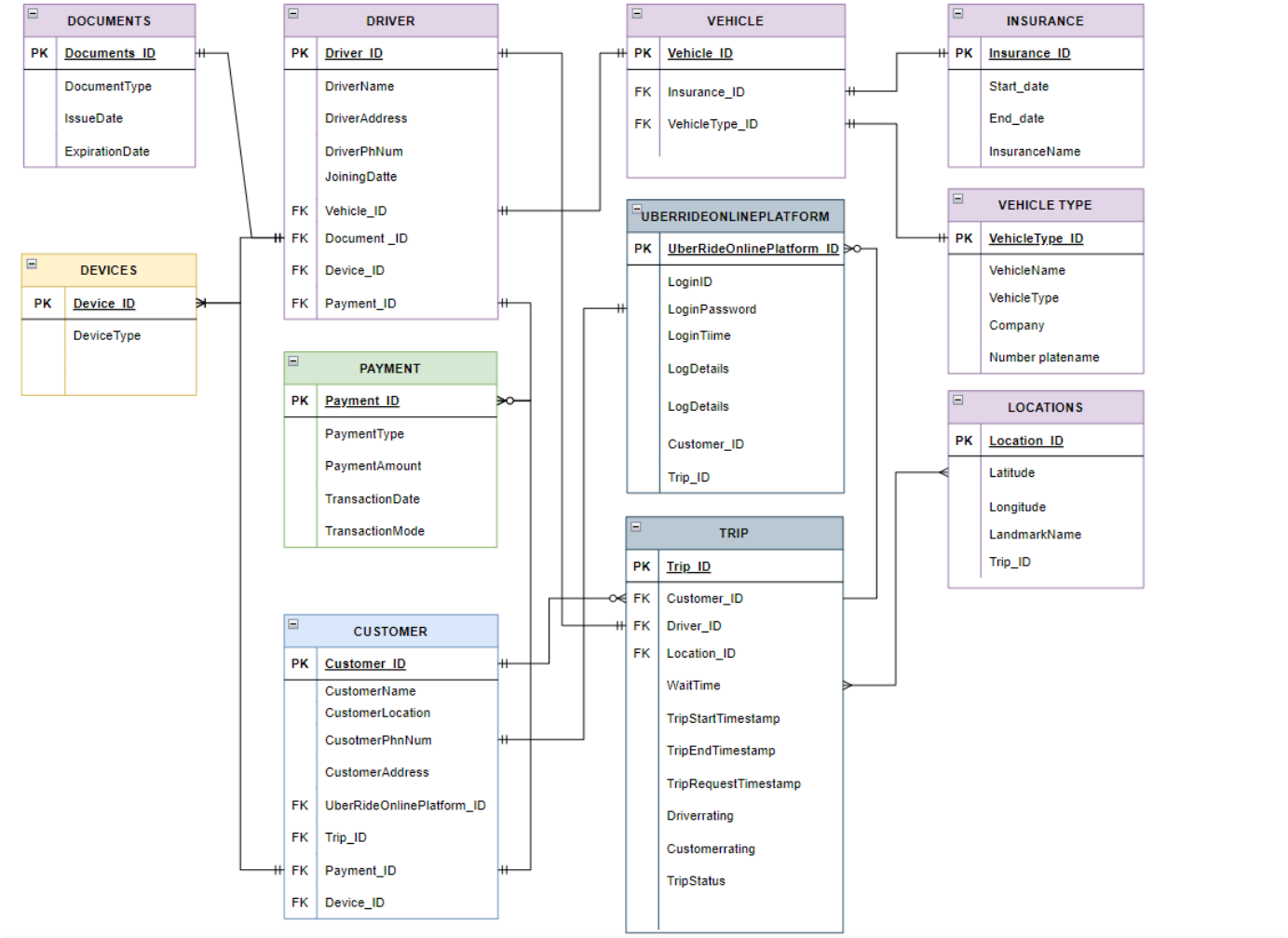
Delivery Person Entity - Uber Connect



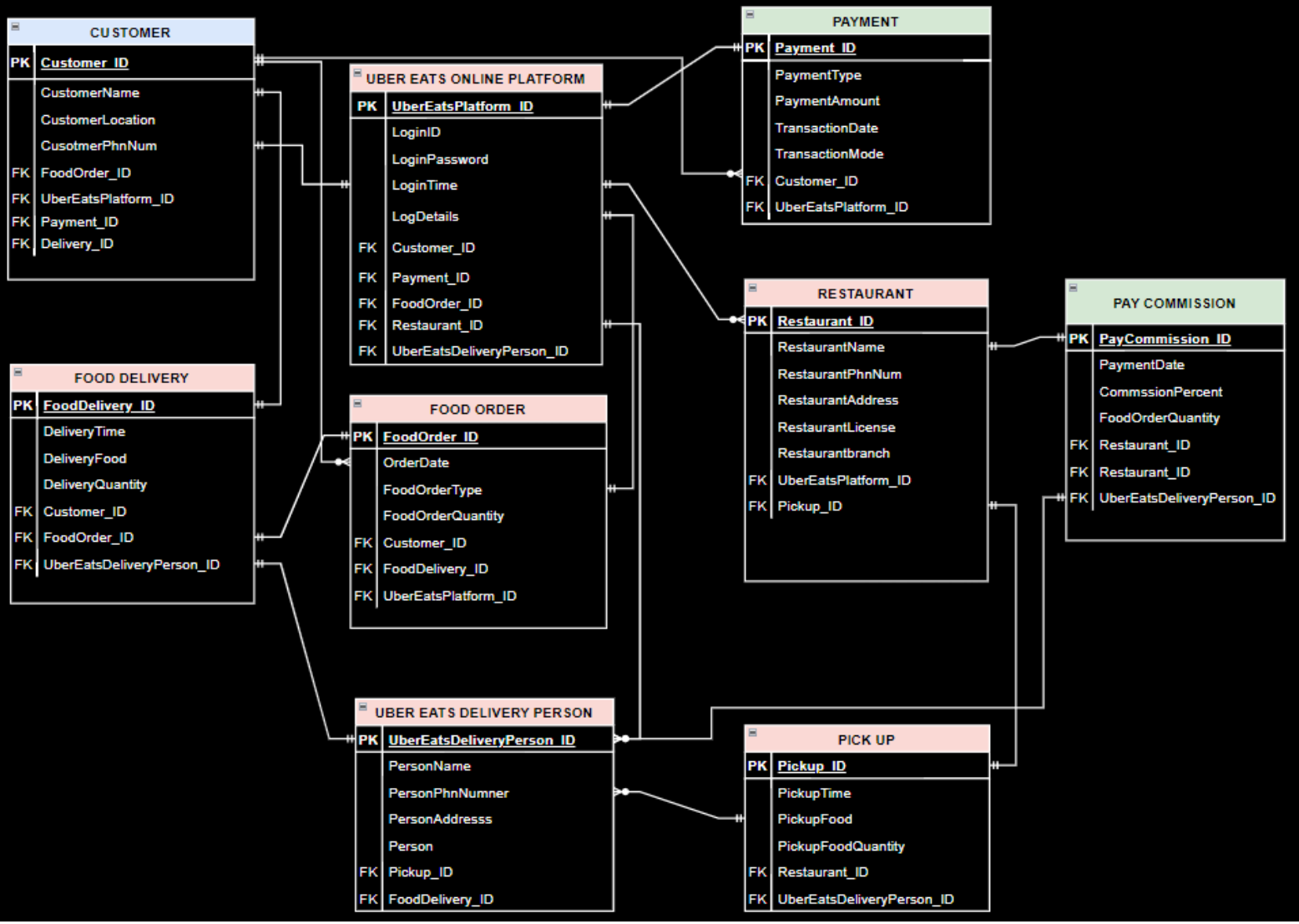
Information modeling - Uber Connect



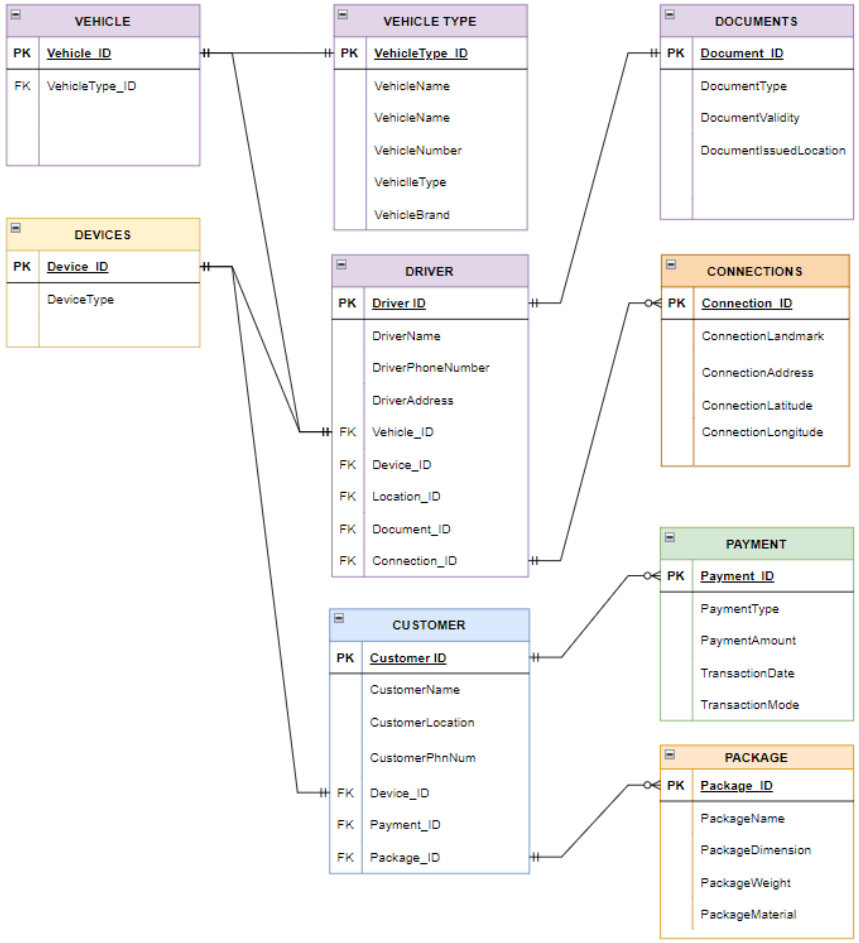
ER diagram with Attributes – Uber Ride



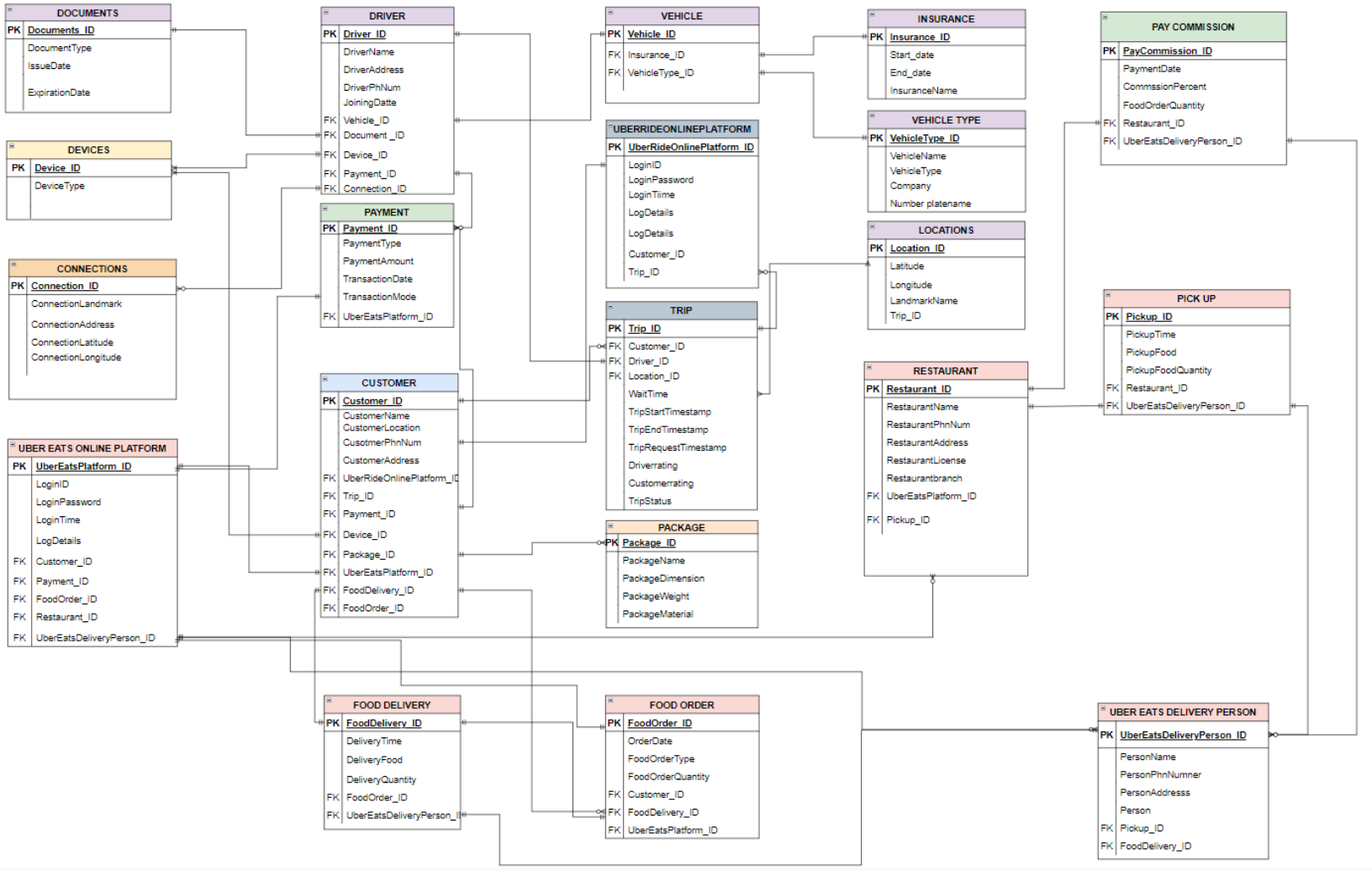
ER diagram with Attributes – Uber Eats



ER diagram with Attributes – Uber Connect



ER diagram with Attributes– Uber



Contract for Booking an Uber Ride

Invariant

- Customers should have an uber an account

Precondition

- The customer and driver exist
- The driver should have vehicle
- The vehicle should have all documents
- The customer should have option to pay

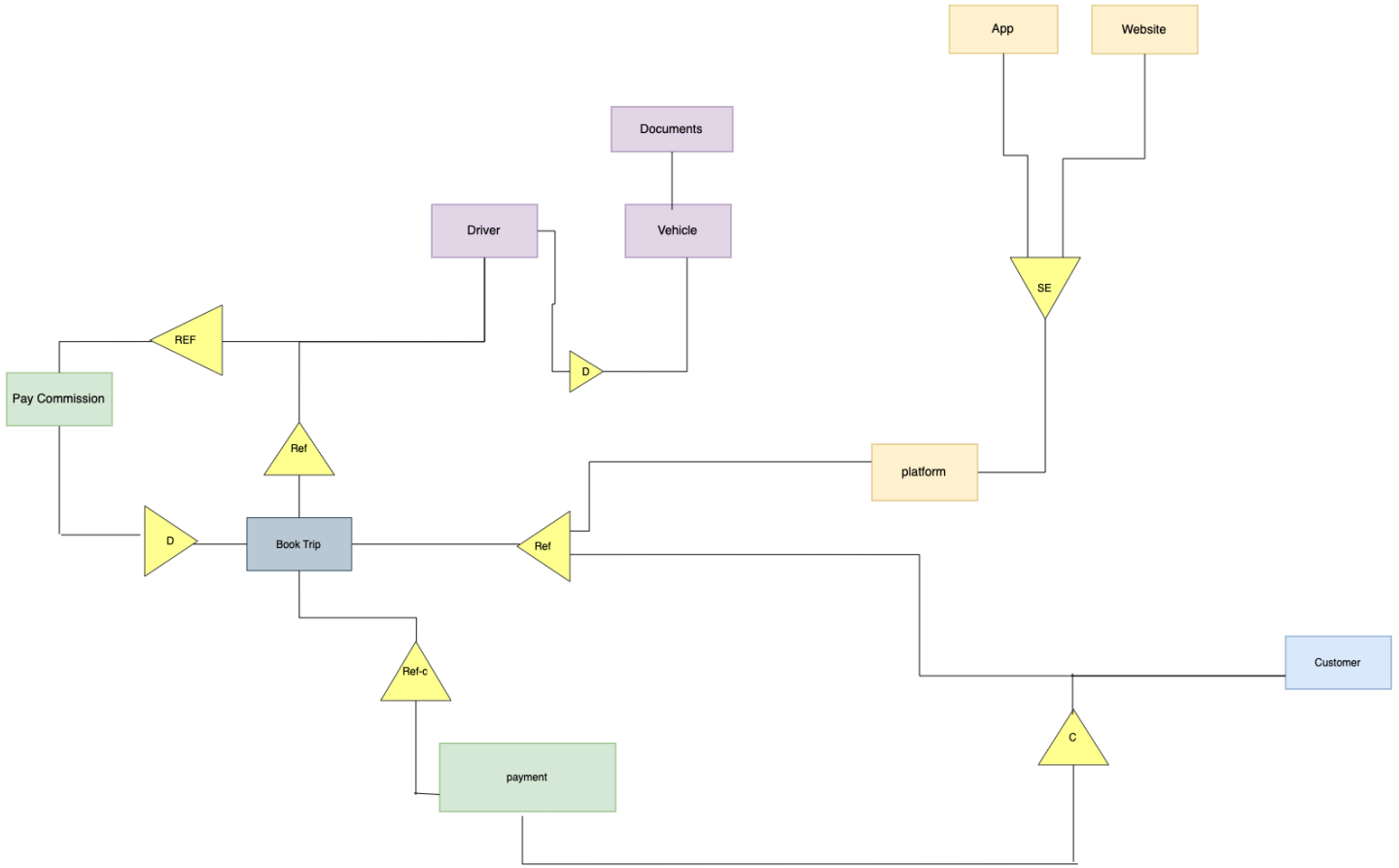
Postcondition

- Customer reaches destination
- Driver gets the money
- Uber get the commission

Trigger

- Customer needs to commute

Information modeling for booking a ride



Contract for Booking Uber Eats

Invariant

- Customers should have an uber an account

Precondition

- The customer ,driver and restaurant exist
- The driver should have vehicle
- The vehicle should have all documents
- The customer should have option to pay

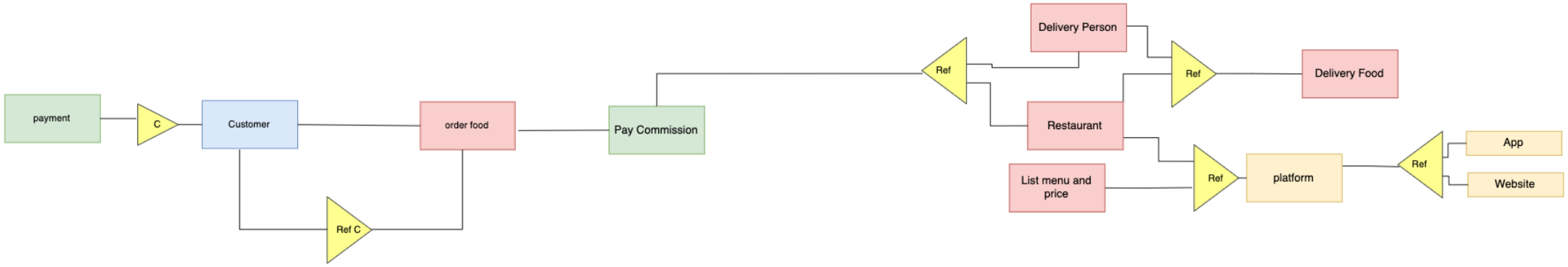
Postcondition

- Customer get food
- Driver and restaurant gets the money
- Uber get the commission

Trigger

- Customer needs to order food

Information modeling for ordering food




Thank You