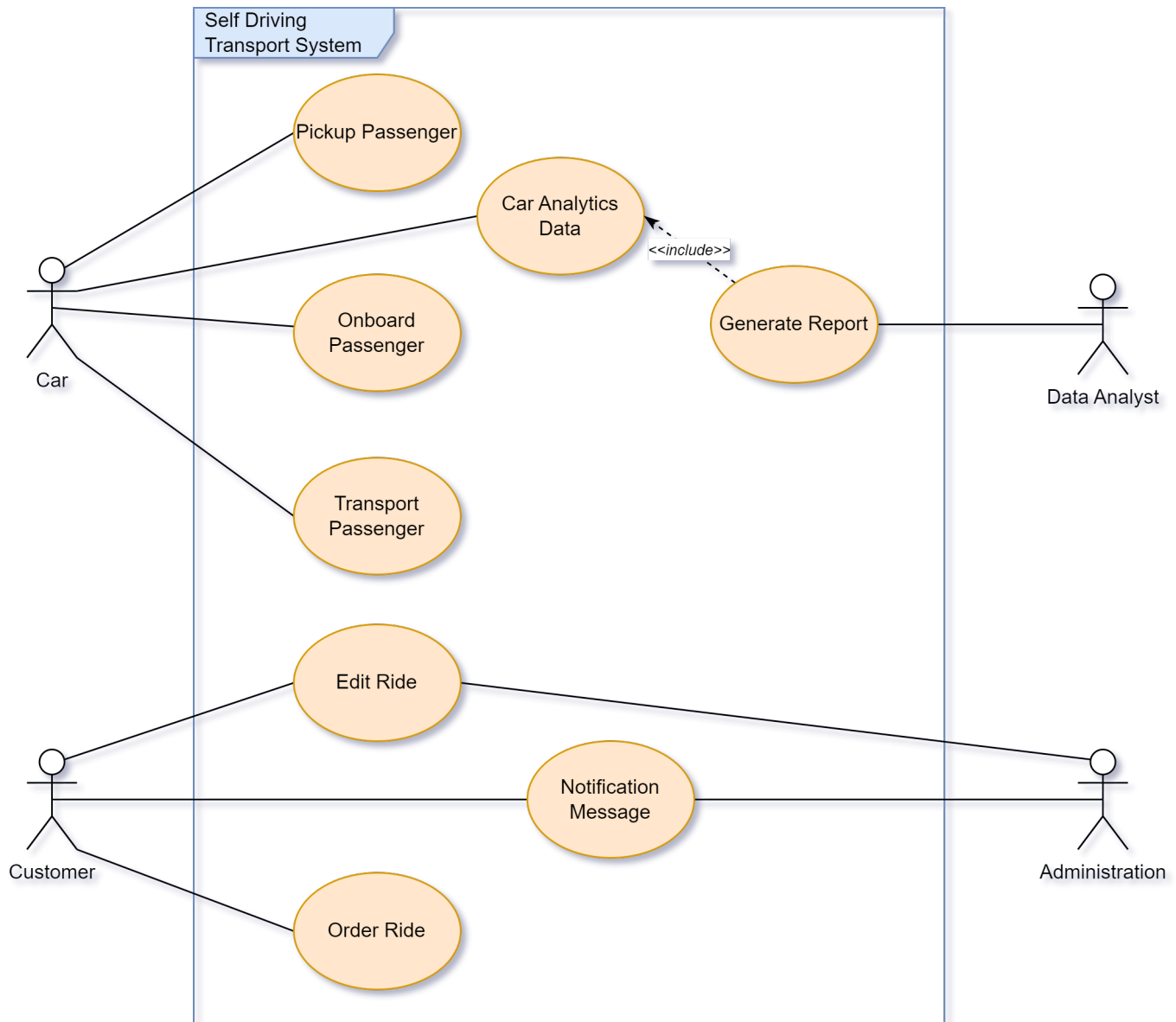# [CA Part 2] Case Study AutoCab - Self Drive Taxi Company

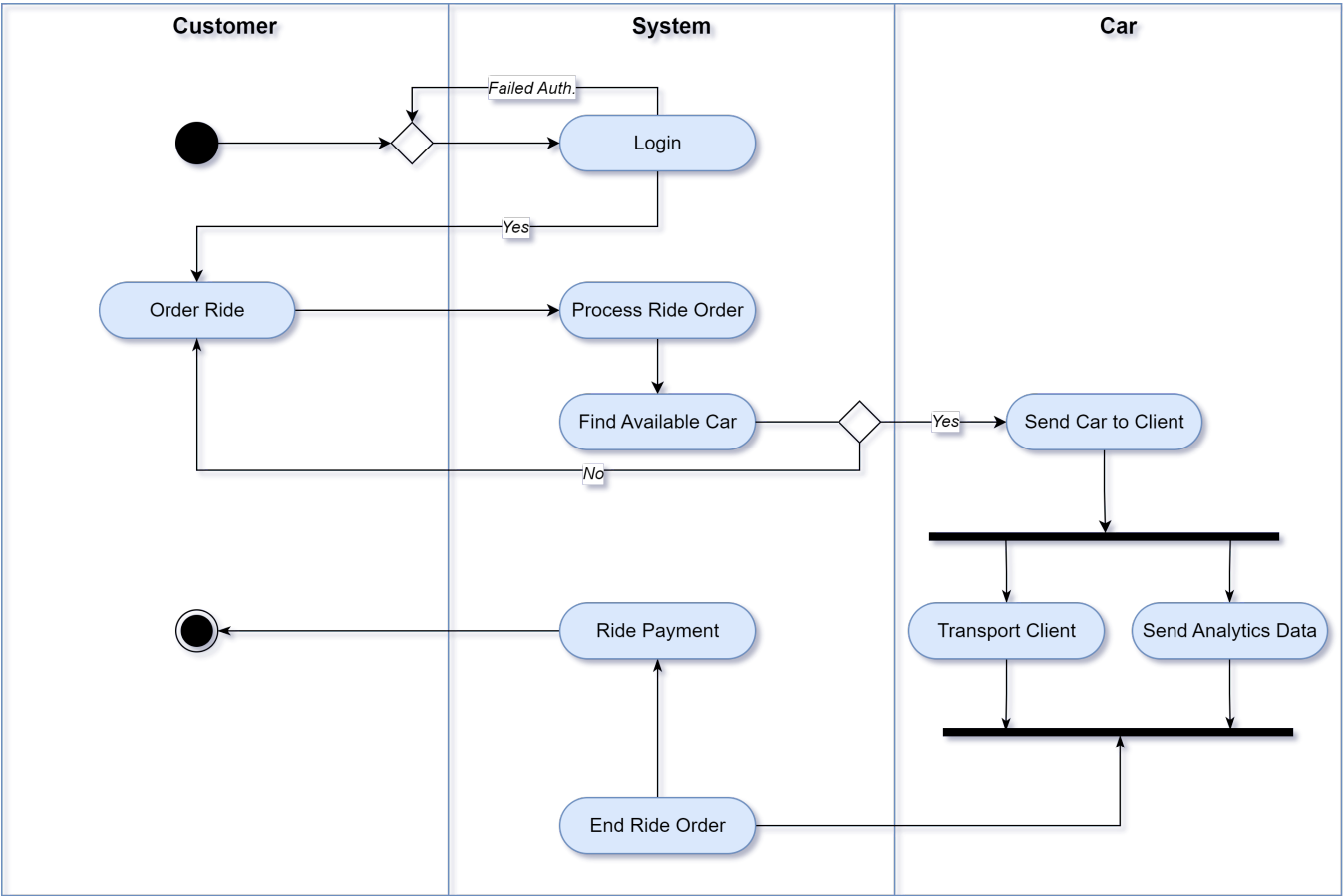## 1) Draw Use Case Diagram

The following diagram have been made with draw.io

There are 4 actors for the system, from which the *customer* and the *self driving vehicle* are the most important. The customer mostly order a *ride*, while the vehicle is in charge of moving the passenger from point A to B.

2) Draw Activity Diagram

The following diagram have been made with draw.io

After the customer authenticate, he send his ride order to the system. The system then initiate all necessary actions (such as rider order recording, credit card verification, etc) to start a ride. Then the system look for an available vehicle that could best handle the requested ride. If a error occur between those 2 processes, an error message is sent to the user and the system request a new *ride order* from the client. Otherwise, all relevant data are sent to the self driven vehicle for it to transport the passenger/client. While in traffic, the vehicle periodically send data and metadata to the system server, for latter processing by the analytic team.

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