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# Food Delivery Systems

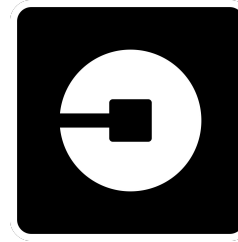
— Tae Hyun Koh —  
Ryan Jaipersaud

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# Background

## Platform Business Models

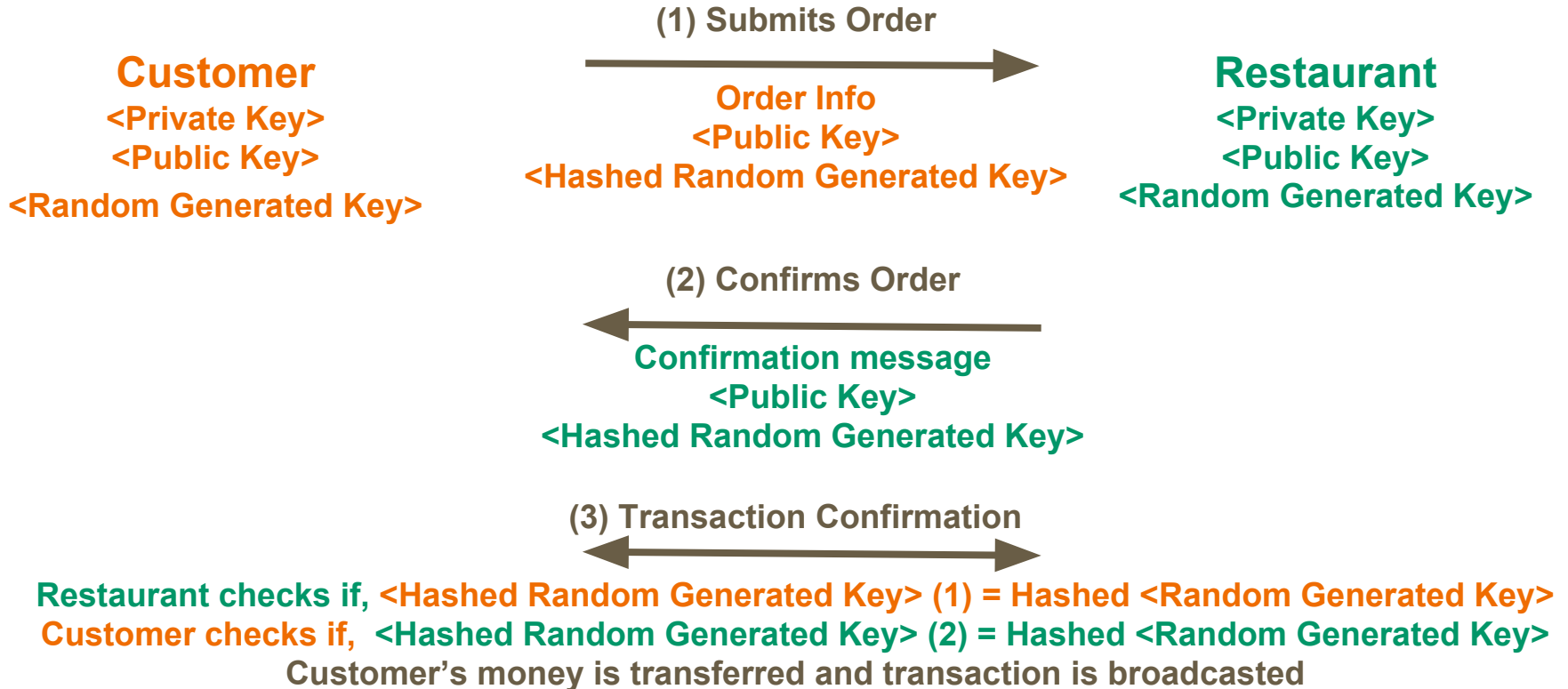


# Problem Statement

Problem: Food delivery Platforms such as GitHub increase the costs of transactions by collecting commissions on their service. Fees have been known to take up to 30 % of the price of the food.

Solution: Blockchain can be used to initiate a transaction between two unknown parties in such a way that transaction fees can be reduced.

# Performing a Transaction



# The Role of Hyperledger

Easy connection between Participants and a clear transaction history

PARTICIPANTS
AuctionHouse
Company
Manufacturer
PrivateOwner
Regulator
ScrapMerchant

ASSETS
Order
Vehicle

# Hyperledger Continued

Submit Transaction

Transaction Type

ApplicationForVehicleRegistration... ▼

JSON Data Preview

```
1 {  
2   "$class": "  
3   "vehicleDet  
4   "$class": "  
5   "make": "  
6   "modelTyp  
7   "colour": "  
8 },  
9 "keeper": "  
10 }
```

PlaceOrder

PrivateVehicleTransfer

ScrapAllVehiclesByColour

ScrapVehicle

SetupDemo

UpdateOrderStatus

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# Multi Agent System Aspect

In order for users to trust deliverers MAS can be used. Users acting as agents will develop a credit rating system.

Users can broadcast to network and check to see if anyone had used this deliverer before.

This is very common. Think Yelp.

# Timeline

April 16th to April 20th : Integration of multi agent aspects, create a simply transaction between two parties that are logged on to a blockchain in ledger

April 23rd to April 27th : Website detailing the project

April 30rd to May 4th: Code allowing for the submission of an order, updating status of order

May 8th: Project demonstration in class



# References

1. Forbes, P.; *GrubHub Charges Restaurants on Average 13.5 % Commission Per Order*, <https://www.eater.com/2014/3/3/6270739/grubhub-charges-restaurants-an-average-13-5-commission-per-order>, (accessed April 11th 2018).
2. Business.com; *Should Your Restaurant be on GrubHub*; <https://www.business.com/articles/is-grubhub-good-for-restaurants/>, (accessed April 11th 2018).
3. Ramachandran, R.; *The Blockchain of Food*; <https://www.forbes.com/sites/themixingbowl/2017/10/23/the-blockchain-of-food/#3305df1b775f>, (accessed April 11th 2018).
4. Haring, B; *Munchee Brings Blockchain to Food Reviews and Delivery - ICO Soon*; <http://blocktribune.com/munchee-brings-blockchain-food-reviews-delivery-ico-soon/>, (accessed April 11th 2018).