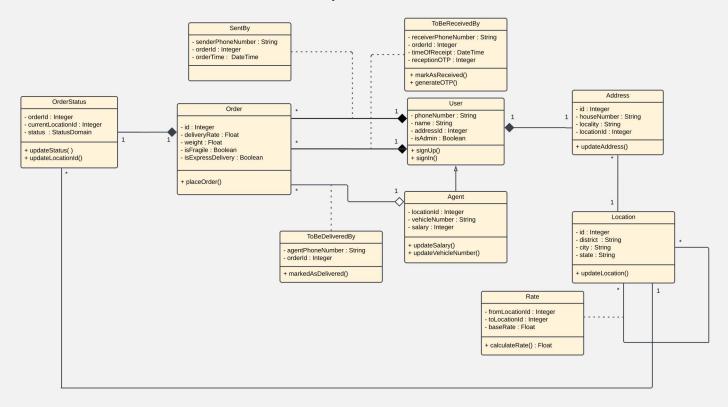


UML CLASS DIAGRAM

CS301P-2023-06 Keshav(003), Harsh(016) and Subhajeet(022)



Lucid Chart Link

NOTE: We have extensively used association classes in our design, for eg. in the SentBy, ToBeReceivedBy and the ToBeDeliveredBy relations. The primary key of all these tables is orderId itself leading to associations in both directions: Order.id references SentBy.orderId in some joins and SentBy.orderId references Order.id in other joins.

Order Table

Primary key: id

Foreign key: id references SentBy.orderId, ToBeReceivedBy.orderId, ToBeDeliveredBy.orderId, OrderStatus.orderId

id, deliveryRate, weight, isFragile, isExpressDelivery NOT NULL OrderStatus Table

Primary key: orderld

Foreign key: orderld references Order.id

currentLocationId references

orderld NOT NULL

SentBy Table

Primary key: orderId

Foreign key: orderId references
Order.id

senderPhoneNumber references
User.phoneNumber

orderId, senderPhoneNumber NOT NULL

ToBeReceivedBy Table

Primary key: orderld

Foreign key: orderld references Order.id

receiverPhoneNumber references
User.phoneNumber

orderId, receiverPhoneNumber NOT NULL

ToBeDeliveredBy Table

Primary key: orderId

Foreign key: orderld references Order.id

agentPhoneNumber references
User.phoneNumber

orderId, agentPhoneNumber NOT NULL

User Table

Primary key: phoneNumber

Foreign key: addressId references Address.id

name, phoneNumber, addressId, isAdmin NOT NULL

Agent (Inherited from User)

Primary key: phoneNumber

Foreign key: addressId references Address.id

locationId references Location.id

name, phoneNumber, addressId, isAdmin, locationId NOT NULL

Address

Primary key: id

Foreign key: locationId references Location.id

id, locationId NOT NULL

Location

Primary key: id

id, city, state, district NOT NULL

Rate

Primary key: { fromLocationId, toLocationId }

Foreign key: fromLocationId references Location.id

toLocationId references Location.id

fromLocationId, toLocationId NOT NULL