

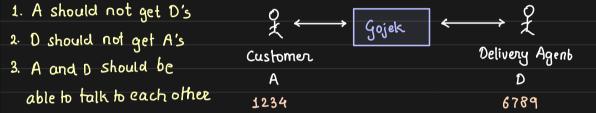
## Keeping phone numbers secure

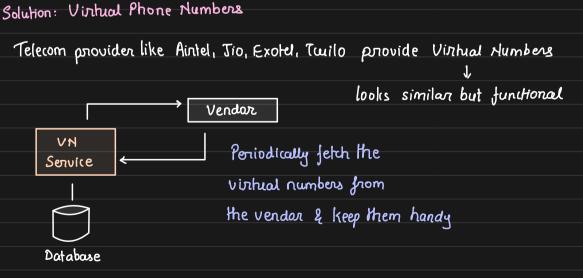


BY ARPIT BHAYANI

## Viπtual Phone Numbers @ Gojek

Phone numbers are critical because it is Personally Identifiable Information Virtual Phone Hence companies like Uber, Ola, Gojek, Swiggy, etc Numbers do not share them with others. Then how do we receive calls from delivery agent??

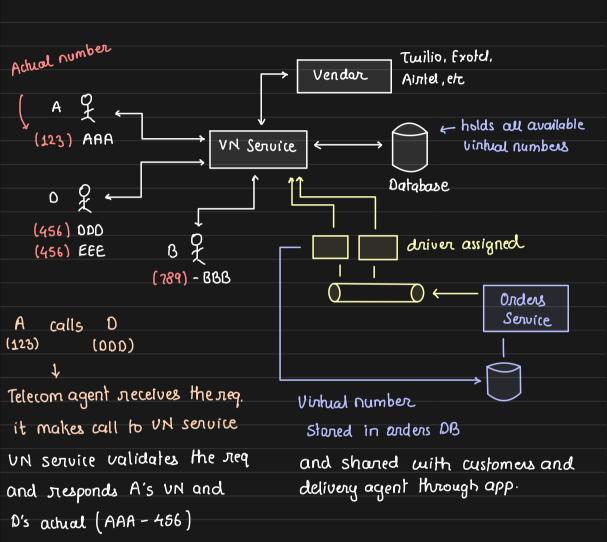




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If there is a 1 ↔ 1 mapping then it is easy to deduce hence, not steally secure A -- 123 -- AAA You can alway store and abuse B — 456 — BBB So, having a fixed user  $\rightarrow VN \times$ c — 789 — ccc What about user who use app just once a lot of VN will be wasted. Hence virtual number assignment should by 1. on-demand 2. temporary for a 'transaction's 'order' Virthel Number Assignment Virtual Number is assigned to all the involved parties in a transaction order id: xxx eg: A booked and arder Delivery agent D is assigned Two virtual numbers are fetched from the database and assigned to this transaction if a delivery agent is delivering two orders at a time, it will be assigned two VN, one for each transaction ARPIT BHAYANI

So, does every user gets a virtual number?



Telecom then calls Don (456)

with source = AAA

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