Future Implementation Use Cases Assumptions Constraints Distributer: Add shipper Shipper already has information coming in from Our billing and order tracking service Timescales: 3 week the manufacturer like delivery batch code, etc View all operating carriers would be linked to a permissioned ~1000 Daily active users View a specific carrier by id Routing information is available blockchain 5K requests per day » 14oK requests per Place Order Notification when something has been A month is 28 days month Track Order The payment will be made in Ether arrived/picked at/from System should be scalable its Initiate Billing and give delivery rating **Won't Implement:** destination/location Minimum time to respond to each request View all orders placed/quoted Request quotation from multiple carriers Real-time order tracking They request price quotation from at once Order negotiation from supplier multiple carriers. Role specific data search allowance Recommendation system with comments **Tech stack** (billing and rating) Chat service for quotations Logistics company: Dispute resolution 5. Framework: Express IS Add carrier Database: MongoDB Cloud Update location served Shipper Carrier CDN Continuous integration with Github Update name Update freight information Confirm order Track order Storage requirements Update order status Blockchain based authentication Rate supplier post billing 1 request »→ 2 KB gateway (verified.me) View all orders received ~300 MB/month Post bidding amount **Load Balancer API Design** POST /distributer /distributor/:id /distributor/:id GET Shipper Service **Tracking Service Billing Service** Rating Service **Ouotation Service** Order Service Carrier Service /company GET GET /company/:id POST /quotation POST /order/:quotationId GET /order/track POST /order/bill POST /company /company/:id /order/acknowledgement Cache /order/status /order/rating/distributor GET /quotation Firebase /quotation Cache PUT /order/rating/company Permissioned Blockchain