

1. Collect all the ride requests from Database/Cache DB like Redis for that particular city or area based on the architecture plan

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Iterate through each ride and place a message in real time processing queues/or any other module which will process next steps

- 3. Next process will pick multiple messages parallely and follows the below steps
- 4. Collect all the drivers details from Database/Cache DB like Redis for that particular city or area based on the architecture plan
- 5. Find nearby drivers for some specific radius like 10 KMs or 50 KMs based on the business need and also on available schedule details by using libraries like sklearn or any other best library based on POC with parameters like performance, load testing, accuracy etc
- 6. Find the best possible drivers based on total incur cost for that trip , possibility of reaching the place within expected pickup time $$\operatorname{\textsc{etc}}$$
- 7. Assign the driver to that trip by choosing the best driver with scoring as first
- 8. If no driver is available for a ride, add the ride to a queue for future allocation

